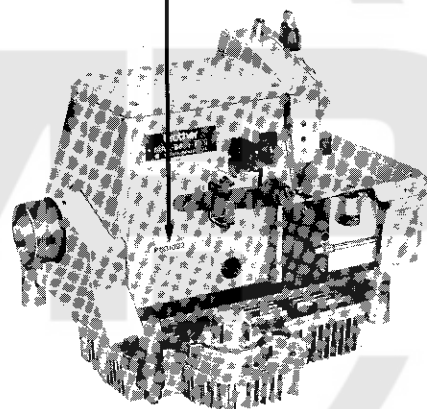
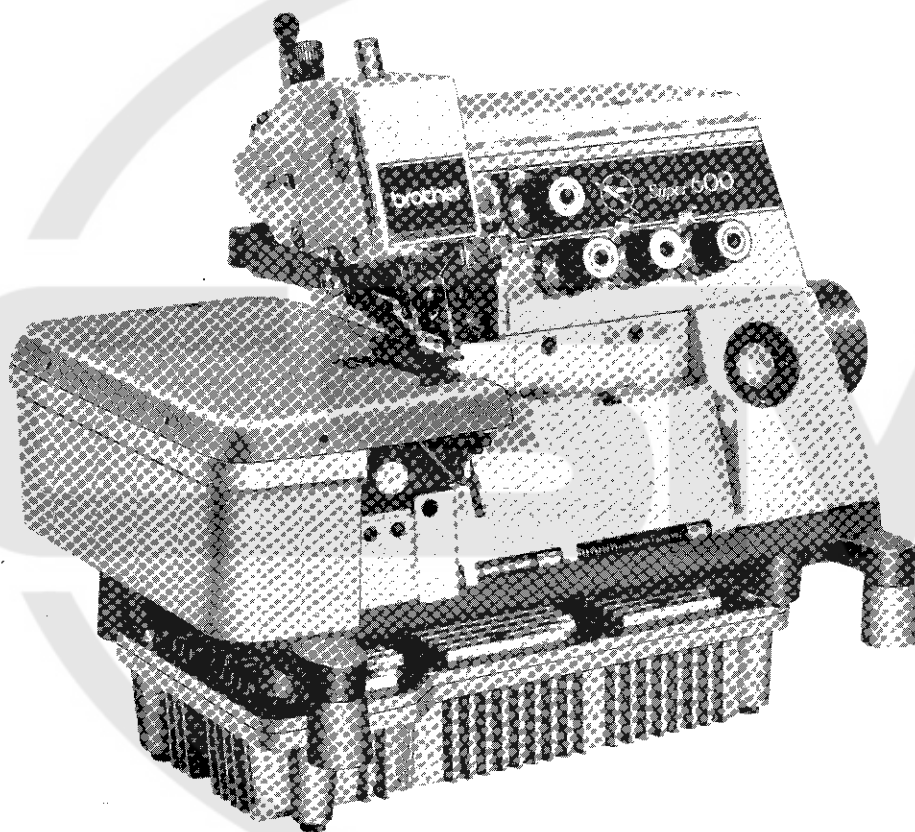


# brother

## PARTS BOOK

**MA4-B631**

P631002

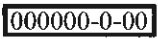
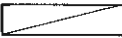


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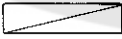
Ultra High Speed Safety Stitch Sewing Machine

BROTHER INDUSTRIES, LTD.  
NAGOYA, JAPAN

## 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 different parts list (page 27).
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 number.
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 November, 1980.
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  der  steht, schlagen Sie bitte bei der gesonderte Stückliste (Seite 27) 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 November 1980.
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 **000000-0-00** est présent dans la colonne "No. de pièce" ou dans la colonne "No. de ensemble", se référer à la liste de pièces annexe (page 27).
3. Le symbole  dans la colonne "N° de pièce" signifie que la pièce ne peut être fournie. Si, dans la colonne "N° jeu de pcs", 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 de Novembre 1980.
6. Les pièces peuvent être sujettes à des modifications sans préavis.

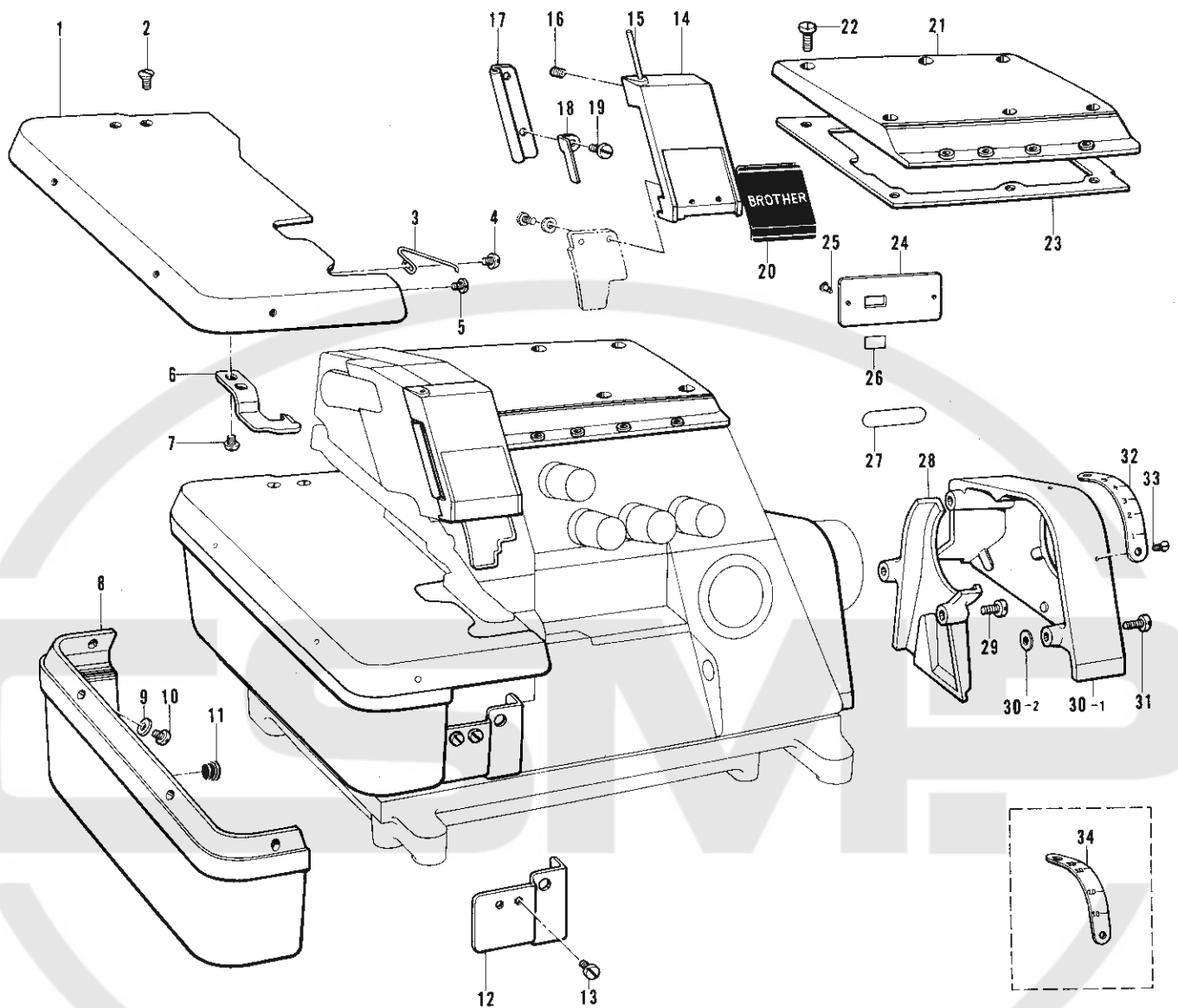
## Notas para usar este Libro de Piezas

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 **000000-0-00** en la columna del "Número de Pieza" o en la del "Número de Juego", habrá que ver la lista de piezas separada (página 27).
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 "Numero 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 Noviembre de 1980.
6. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

## CONTENTS

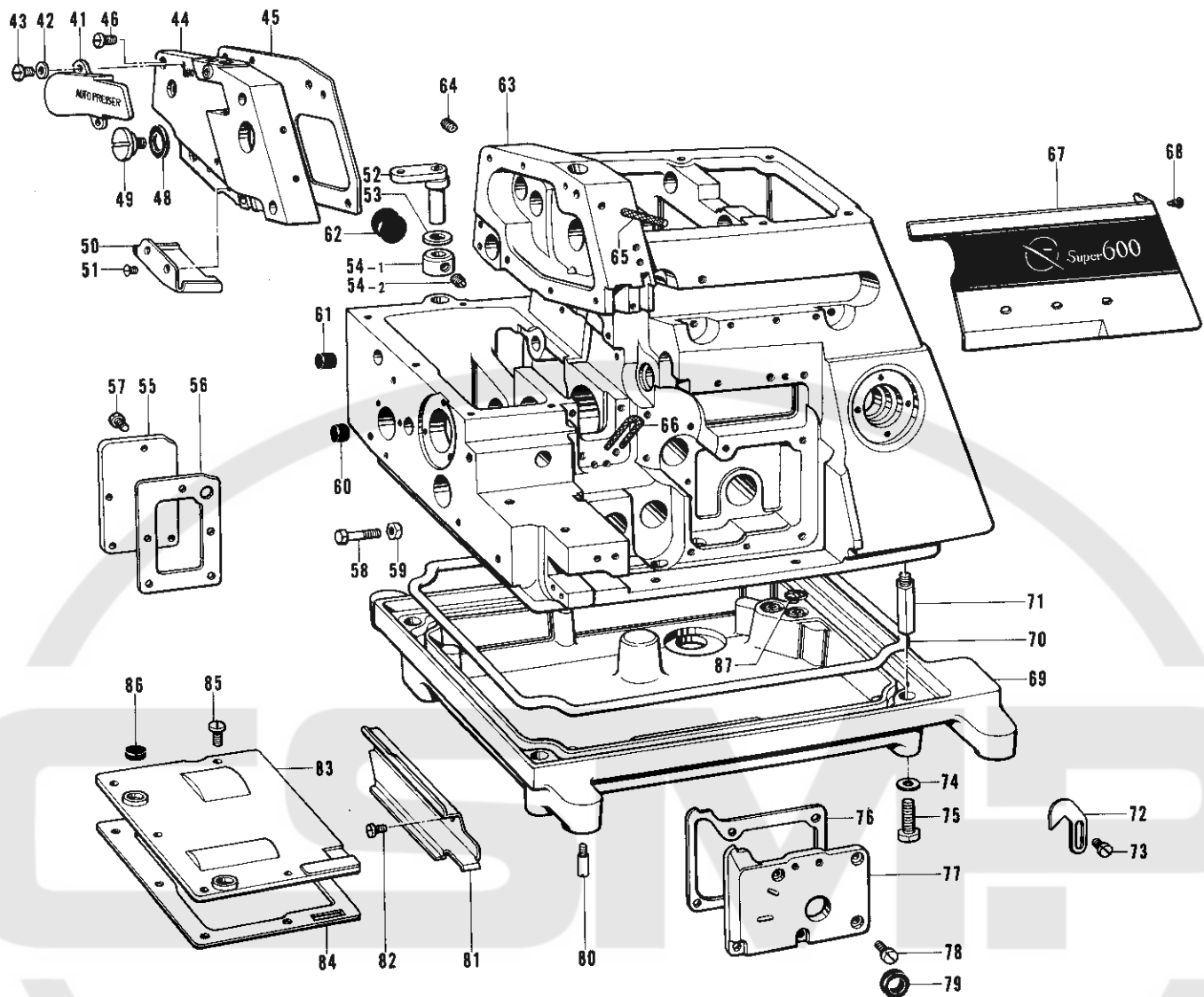
|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| A. Machine Body (1) .....                                                            | 1  |
| A. Machine Body (2) .....                                                            | 2  |
| A. Machine Body (3) .....                                                            | 3  |
| B. Needle Bar Mechanism (1) .....                                                    | 4  |
| B. Needle Bar Mechanism (2) .....                                                    | 5  |
| C. Crank Shaft Mechanism .....                                                       | 6  |
| D. Over Looper Mechanism .....                                                       | 7  |
| E. Under Looper Mechanism .....                                                      | 8  |
| F. Double Chain Stitch Looper Mechanism .....                                        | 9  |
| G. Feed Mechanism (1) .....                                                          | 10 |
| G. Feed Mechanism (2) .....                                                          | 11 |
| G. Feed Mechanism (3) .....                                                          | 12 |
| H. Presser Foot Mechanism (1) .....                                                  | 13 |
| H. Presser Foot Mechanism (2) .....                                                  | 14 |
| H. Presser Foot Mechanism (3) .....                                                  | 15 |
| J. Knives Mechanism .....                                                            | 16 |
| K. Threading .....                                                                   | 17 |
| L. Lubrication (1) .....                                                             | 18 |
| L. Lubrication (2) .....                                                             | 19 |
| M. Needle Cooler .....                                                               | 20 |
| N. Auto Presser Mechanism .....                                                      | 21 |
| P. Ruffler Interlocking Parts Assembly<br>and Ruffling Attachment Assembly (1) ..... | 22 |
| P. Differential Adjuster Assembly (2) .....                                          | 23 |
| R. Wrapper and Piping Parts .....                                                    | 24 |
| Q. Taping .....                                                                      | 24 |
| Z. Accessories (1) .....                                                             | 25 |
| Z. Machine Base Plate and Cotton Stand Assembly (2) .....                            | 26 |
| DIFFERENT PARTS LIST .....                                                           | 27 |
| INDEX .....                                                                          | 32 |

## A. Machine Body (1)



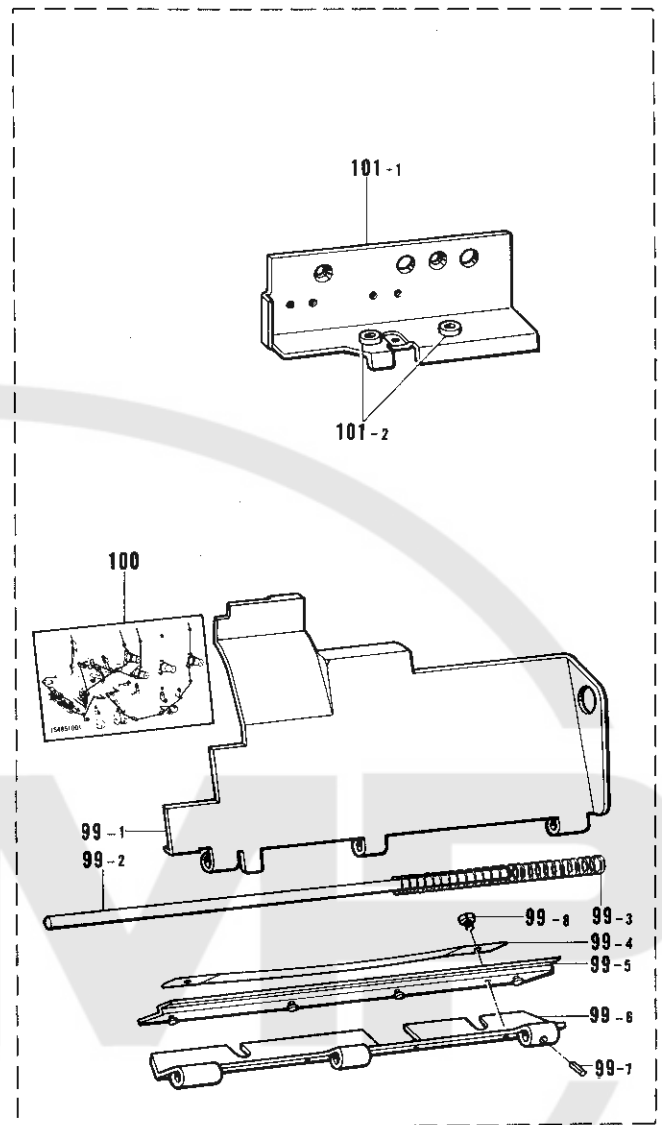
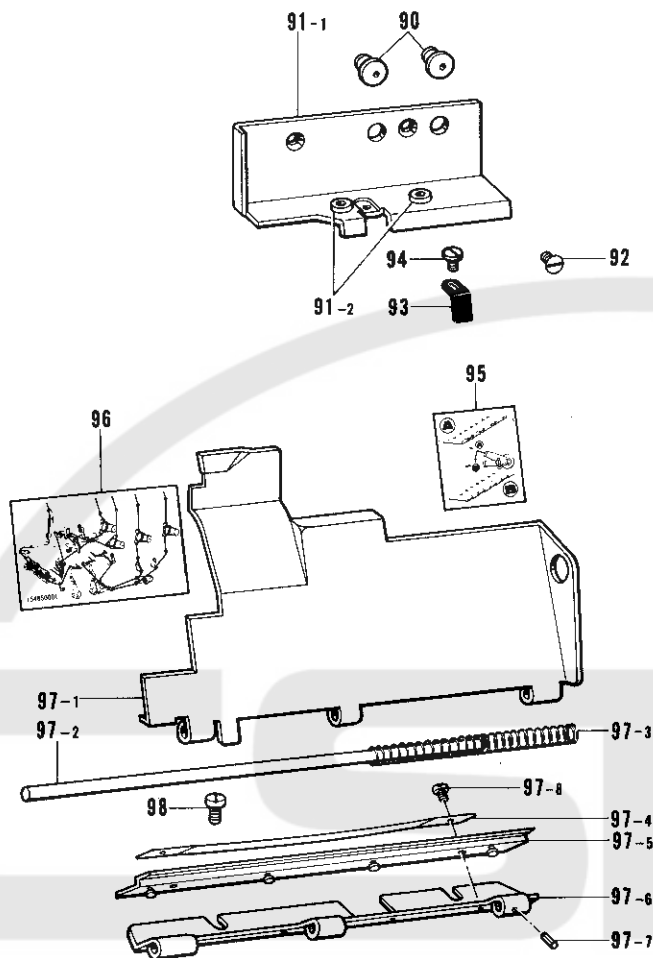
| Ref. No. | Name of Parts           | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts               | Q'ty | Parts No.   | Assembly No.                                  |
|----------|-------------------------|------|-------------|--------------|----------|-----------------------------|------|-------------|-----------------------------------------------|
| A- 1     | Cloth Plate             | 1    | 154830-0-01 |              | A-19     | Screw 3.57 x 7              | 2    | 009670-7-12 |                                               |
| A- 2     | Screw 4.37              | 2    | 100032-0-03 |              | A-20     | Name Plate                  | 1    | 154815-0-01 |                                               |
| A- 3     | Spring                  | 1    | 146450-0-01 |              | A-21     | Top Cover                   | 1    | 154798-0-01 |                                               |
| A- 4     | Screw 3.57 x 5          | 1    | 001670-5-12 |              | A-22     | Screw 4.37 x 12             | 6    | 009681-2-12 |                                               |
| A- 5     | Screw 3.57 x 5          | 1    | 007670-5-13 |              | A-23     | Packing                     | 1    | 154800-0-00 |                                               |
| A- 6     | Stopper for Cloth Plate | 1    | 154832-0-01 |              | A-24     | Model Plate 631             | 1    |             |                                               |
| A- 7     | Screw 3.57 x 5          | 2    | 001670-5-12 |              | A-25     | Pin                         | 2    |             |                                               |
| A- 8     | Cloth Plate Lower       | 1    | 154834-0-01 |              | A-26     | Label                       | 1    |             |                                               |
| A- 9     | Washer                  | 4    | 025350-3-32 |              | A-27     | Parts Book Number Plate     | 1    |             |                                               |
| A-10     | Screw 3.57 x 6          | 4    | 001670-6-12 |              | A-28     | Fan Case                    | 1    | 154806-0-00 |                                               |
| A-11     | Oil Cap                 | 2    | 104450-0-01 |              | A-29     | Screw 4.37 x 10             | 2    | 009681-0-12 |                                               |
| A-12     | Front Cover Guide       | 1    | 154822-0-01 |              | A-30-1   | Belt Cover                  | 1    |             | A-30<br>Belt Cover<br>Assembly<br>155519-0-01 |
| A-13     | Screw 3.57 x 6          | 2    | 009670-6-12 |              | A-30-2   | Washer                      | 2    | 155520-0-01 |                                               |
| A-14     | Face Plate Cover        | 1    | 154811-0-01 |              | A-31     | Screw 4.37 x 10             | 2    | 009681-0-12 |                                               |
| A-15     | Pin for Face Plate      | 1    | 154813-0-00 |              | A-32     | Stitch Length Control Plate | 1    | 154808-0-01 |                                               |
| A-16     | Screw 3.18              | 1    | 146427-0-01 |              | A-33     | Screw 2.38                  | 2    | 105288-0-01 |                                               |
| A-17     | Face Plate Cover Hinge  | 1    | 154812-0-01 |              | A-34     | Stitch Length Control Plate | 1    | 154810-0-01 |                                               |
| A-18     | Spring                  | 1    | 154814-0-01 |              |          |                             |      |             |                                               |

## A. Machine Body (2)



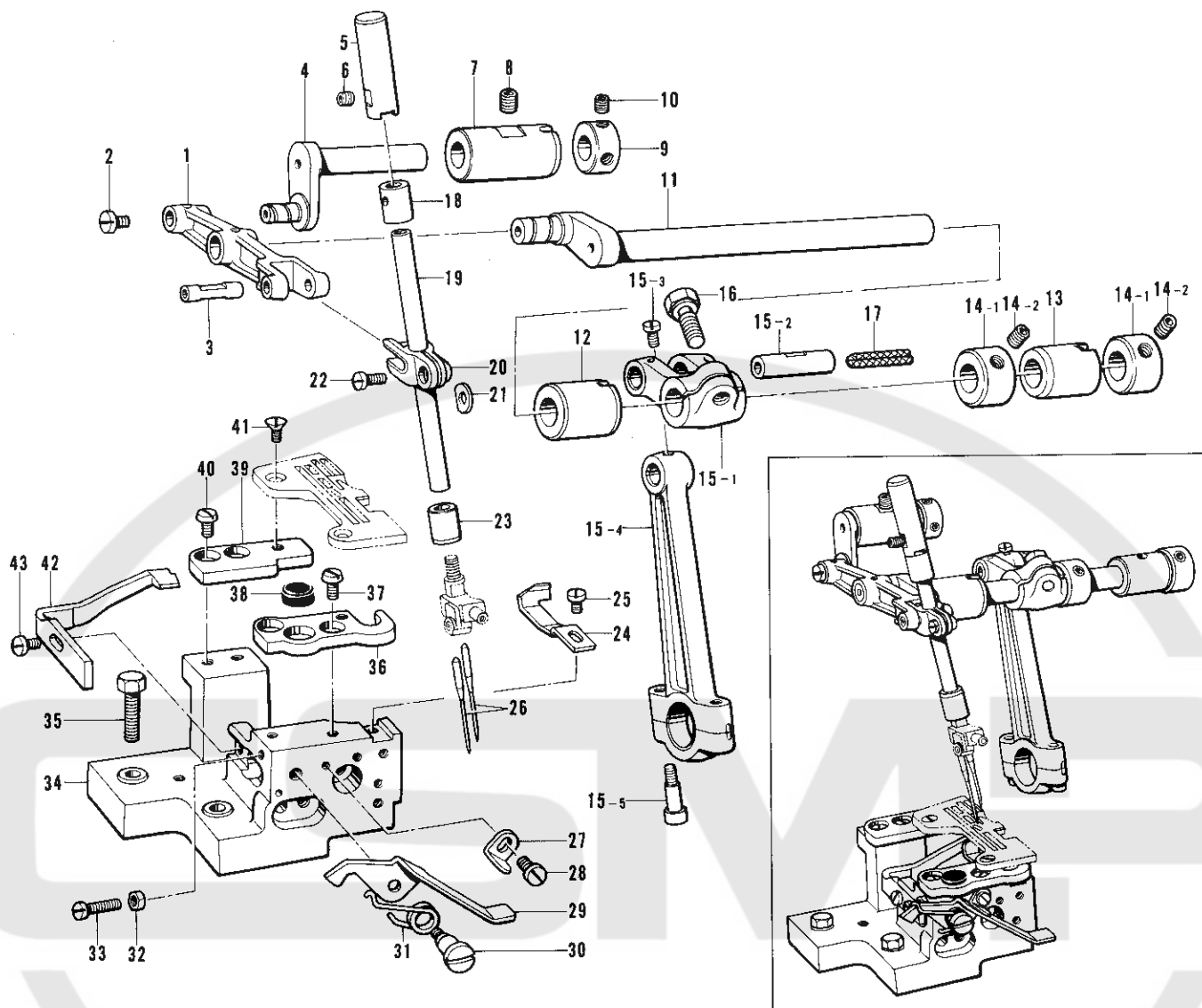
| Ref. No. | Name of Parts                      | Q'ty | Parts No.   | Assembly No.                           | Ref. No. | Name of Parts            | Q'ty | Parts No.   | Assembly No. |
|----------|------------------------------------|------|-------------|----------------------------------------|----------|--------------------------|------|-------------|--------------|
| A-41     | Auto Presser Arm Cover             | 1    | 154803-0-01 |                                        | A-64     | Screw 5.95               | 2    | 013760-6-12 |              |
| A-42     | Washer                             | 2    | 110735-0-02 |                                        | A-65     | Wick 6 x 6 (15)          | 1    | 155555-0-00 |              |
| A-43     | Screw 4.37 x 7                     | 2    | 009680-7-12 |                                        | A-66     | Wick 4 x 4 (110)         | 1    | 112750-0-00 |              |
| A-44     | Cover for Needle Driving Mechanism | 1    | 154801-0-01 |                                        | A-67     | Emblem Plate             | 1    | 154836-0-01 |              |
| A-45     | Packing                            | 1    | 154802-0-00 |                                        | A-68     | Pin                      | 2    | 124918-0-01 |              |
| A-46     | Screw 4.37 x 7                     | 6    | 009680-7-12 |                                        | A-69     | Oil Reservoir            | 1    | 154842-0-01 |              |
| A-48     | "O" Ring                           | 1    | 109203-0-01 |                                        | A-70     | Packing                  | 1    | 154843-0-00 |              |
| A-49     | Screw 9.52                         | 1    | 110641-0-02 |                                        | A-71     | Machine Body Leg         | 4    | 148085-0-01 |              |
| A-50     | Cloth Guide (S)                    | 1    | 154838-0-01 |                                        | A-72     | Adjusting Plate          | 1    | 155552-0-01 |              |
| A-51     | Screw 3.57                         | 2    | 108960-0-02 |                                        | A-73     | Screw 3.57 x 6           | 2    | 009670-6-12 |              |
| A-52     | Cloth Plate Supporter              | 1    | 154831-0-01 |                                        | A-74     | Washer                   | 4    | 118735-0-02 |              |
| A-53     | Washer                             | 1    | 141183-0-00 |                                        | A-75     | Bolt 6.35 x 16           | 4    | 017771-6-12 |              |
| A-54-1   | Set Collar                         | 1    |             | A-54<br>Collar Assembly<br>181969-0-03 | A-76     | Packing                  | 1    | 154820-0-00 |              |
| A-54-2   | Screw 6.35                         | 2    | 101706-0-01 |                                        | A-77     | Inside Cover             | 1    | 154819-0-00 |              |
| A-55     | Cover for Feed Mechanism           | 1    | 154804-0-01 |                                        | A-78     | Screw 3.57 x 8           | 5    | 009670-8-12 |              |
| A-56     | Packing                            | 1    | 154805-0-00 |                                        | A-79     | Seal                     | 1    | 155247-0-00 |              |
| A-57     | Screw 4.37                         | 5    | 107407-0-03 |                                        | A-80     | Set Pin Cushion          | 4    | 140077-0-01 |              |
| A-58     | Bolt 4.37                          | 2    | 154835-0-01 |                                        | A-81     | Cloth Guide (L)          | 1    | 154837-0-01 |              |
| A-59     | Nut                                | 2    | 105234-0-03 |                                        | A-82     | Screw 3.57 x 6           | 2    | 009670-6-12 |              |
| A-60     | Oil Cap                            | 1    | 140361-0-01 |                                        | A-83     | Cover for Feed Mechanism | 1    | 154817-0-01 |              |
| A-61     | Oil Cap                            | 1    | 146315-0-00 |                                        | A-84     | Packing                  | 1    | 154818-0-00 |              |
| A-62     | Oil Cap                            | 1    | 140066-0-01 |                                        | A-85     | Screw 4.37 x 7           | 5    | 009680-7-12 |              |
| A-63     | Machine Body                       | 1    |             |                                        | A-86     | Oil Cap                  | 2    | 143766-0-01 |              |
|          |                                    |      |             |                                        | A-87     | "O" Ring                 | 2    | 081011-0-70 |              |

## A. Machine Body (3)



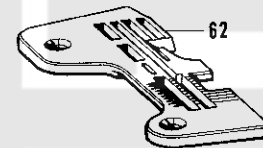
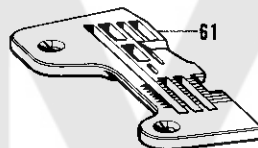
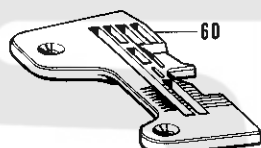
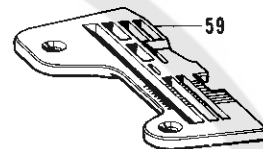
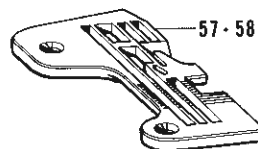
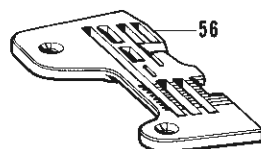
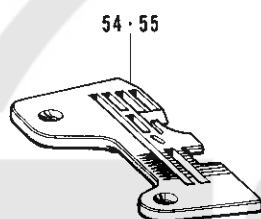
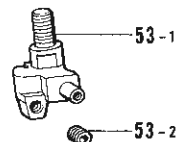
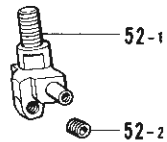
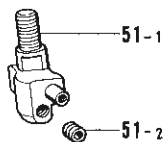
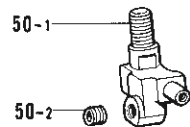
| Ref. No. | Name of Parts                  | Q'ty | Parts No.   | Assembly No.                                        | Ref. No. | Name of Parts             | Q'ty | Parts No.   | Assembly No.                                                   |
|----------|--------------------------------|------|-------------|-----------------------------------------------------|----------|---------------------------|------|-------------|----------------------------------------------------------------|
| A-90     | Oil Cap                        | 2    | 143196-0-01 |                                                     | A- 97-7  | Spring Pin                | 1    | 047140-8-42 | A-97 Front Cover Assembly 154861-0-01                          |
| A-91-1   | Supporter for Front Cover      | 1    |             | A-91 Supporter for Front Cover Assembly 154825-0-01 | A- 97-8  | Screw 3.57 x 4            | 2    | 009670-4-12 |                                                                |
| A-91-2   | Thread Bushing                 | 2    | 146924-0-00 |                                                     | A- 98    | Screw 4.37 x 6            | 2    | 009680-6-12 |                                                                |
| A-92     | Screw 4.37                     | 2    | 117160-0-01 |                                                     | A- 99-1  | Front Cover               | 1    |             |                                                                |
| A-93     | Stopper Spring for Front Cover | 1    | 154829-0-01 |                                                     | A- 99-2  | Front Cover Hinge Pin     | 1    | 154855-0-00 |                                                                |
| A-94     | Screw 3.57 x 4.5               | 1    | 123185-0-01 |                                                     | A- 99-3  | Spring                    | 1    | 146442-0-01 |                                                                |
| A-95     | Looper Threading Label         | 1    | 155340-0-01 |                                                     | A- 99-4  | Hinge Cover Presser Plate | 1    | 152194-0-01 |                                                                |
| A-96     | Threading Diagram              | 1    | 154850-0-01 |                                                     | A- 99-5  | Hinge Cover               | 1    | 154856-0-00 |                                                                |
| A-97-1   | Front Cover                    | 1    |             |                                                     | A- 99-6  | Front Cover Hinge         | 1    | 154854-0-01 |                                                                |
| A-97-2   | Front Cover Hinge Pin          | 1    | 154855-0-00 |                                                     | A- 99-7  | Spring Pin                | 1    | 047140-8-42 |                                                                |
| A-97-3   | Spring                         | 1    | 146442-0-01 |                                                     | A- 99-8  | Screw 3.57 x 4            | 2    | 009670-4-12 |                                                                |
| A-97-4   | Hinge Cover Presser Plate      | 1    | 152194-0-01 |                                                     | A-100    | Threading Diagram         | 1    | 154851-0-01 |                                                                |
| A-97-5   | Hinge Cover                    | 1    | 154856-0-00 |                                                     | A-101-1  | Supporter for Front Cover | 1    |             | A-101 Supporter for Front Cover Assembly (Binding) 154827-0-01 |
| A-97-6   | Front Cover Hinge              | 1    | 154854-0-01 |                                                     | A-101-2  | Thread Bushing            | 2    | 146924-0-00 |                                                                |

### B. Needle Bar Mechanism (1)



| Ref. No. | Name of Parts                | Q'ty | Parts No.   | Assembly No.                                                        | Ref. No. | Name of Parts                 | Q'ty | Parts No.   | Assembly No. |
|----------|------------------------------|------|-------------|---------------------------------------------------------------------|----------|-------------------------------|------|-------------|--------------|
| B- 1     | Needle Arm                   | 1    | 154897-0-01 |                                                                     | B-20     | Needle Bar Clamp              | 1    | 154900-0-01 |              |
| B- 2     | Screw 3.57                   | 1    | 148834-0-01 |                                                                     | B-21     | Spacer                        | 1    | 154901-0-01 |              |
| B- 3     | Pin                          | 1    | 154899-0-01 |                                                                     | B-22     | Screw 3.57 x 6                | 1    | 009670-6-12 |              |
| B- 4     | Needle Arm Supporter         | 1    | 154895-0-01 |                                                                     | B-23     | Needle Bar Bushing (D)        | 1    | 154905-0-00 |              |
| B- 5     | Needle Bar Cap               | 1    | 154903-0-01 |                                                                     | B-24     | Chain Stitch Needle Guard (F) | 1    | 146496-2-01 |              |
| B- 6     | Screw 3.18                   | 1    | 146427-0-01 |                                                                     | B-25     | Screw 3.57 x 6                | 1    | 009670-6-12 |              |
| B- 7     | Needle Arm Bushing           | 1    | 154896-0-00 |                                                                     | B-26     | Needle DC x 27                | 2    | 151474-0-   |              |
| B- 8     | Screw 6.35                   | 1    | 014780-6-22 |                                                                     | B-27     | Cloth Plate Lever Stopper     | 1    | 146454-0-01 |              |
| B- 9     | Collar                       | 1    | 110197-0-01 |                                                                     | B-28     | Screw 3.57 x 6                | 1    | 009670-6-12 |              |
| B-10     | Screw 4.37                   | 2    | 014680-4-22 |                                                                     | B-29     | Cloth Plate Lever             | 1    | 154833-0-01 |              |
| B-11     | Needle Bar Crank Shaft       | 1    | 154891-0-01 |                                                                     | B-30     | Stud Screw 3.57               | 1    | 146453-0-01 |              |
| B-12     | Needle Bar Bushing (Left)    | 1    | 154894-0-00 |                                                                     | B-31     | Spring                        | 1    | 146452-0-01 |              |
| B-13     | Needle Bar Bushing (Right)   | 1    | 154892-0-00 |                                                                     | B-32     | Nut                           | 1    | 021670-2-02 |              |
| B-14-1   | Set Collar                   | 2    |             | B-14<br>Collar Assembly<br>155863-0-01                              | B-33     | Screw 3.57 x 14               | 1    | 009671-4-12 |              |
| B-14-2   | Screw 5.95                   | 4    | 152718-0-01 |                                                                     | B-34     | Needle Plate Support Bracket  | 1    | 154922-0-01 |              |
| B-15-1   | Needle Bar Crank Shaft Arm   | 1    |             | *B-15<br>Needle Arm<br>Driving Crank<br>Rod Assembly<br>154888-0-01 | B-35     | Bolt 6.35 x 20                | 2    | 017782-0-12 |              |
| B-15-2   | Pin                          | 1    |             |                                                                     | B-36     | Needle Plate Supporter (F)    | 1    | 146494-0-01 |              |
| B-15-3   | Screw 4.37                   | 1    | 100366-0-01 |                                                                     | B-37     | Screw 4.37 x 5                | 2    | 001680-5-12 |              |
| B-15-4   | Needle Arm Driving Crank Rod | 1    |             |                                                                     | B-38     | Cloth Plate Cushion (B)       | 1    | 111486-0-01 |              |
| B-15-5   | Screw 4.37 x 14              | 2    | 148425-0-01 |                                                                     | B-39     | Needle Plate Supporter (B)    | 1    | 146495-0-01 |              |
| B-16     | Bolt 6.35 x 16               | 1    | 149170-0-01 |                                                                     | B-40     | Screw 4.37 x 5                | 2    | 001680-5-12 |              |
| B-17     | Wick 8 x 8 (52)              | 1    | 140320-0-00 |                                                                     | B-41     | Screw 4.37                    | 2    | 100032-0-03 |              |
| B-18     | Needle Bar Bushing (U)       | 1    | 154904-0-00 |                                                                     | B-42     | Chain Stitch Needle Guide (B) | 1    | 146497-1-01 |              |
| B-19     | Needle Bar                   | 1    | 154902-0-01 |                                                                     | B-43     | Screw 4.37 x 7                | 1    | 009680-7-12 |              |

## B. Needle Bar Mechanism (2)

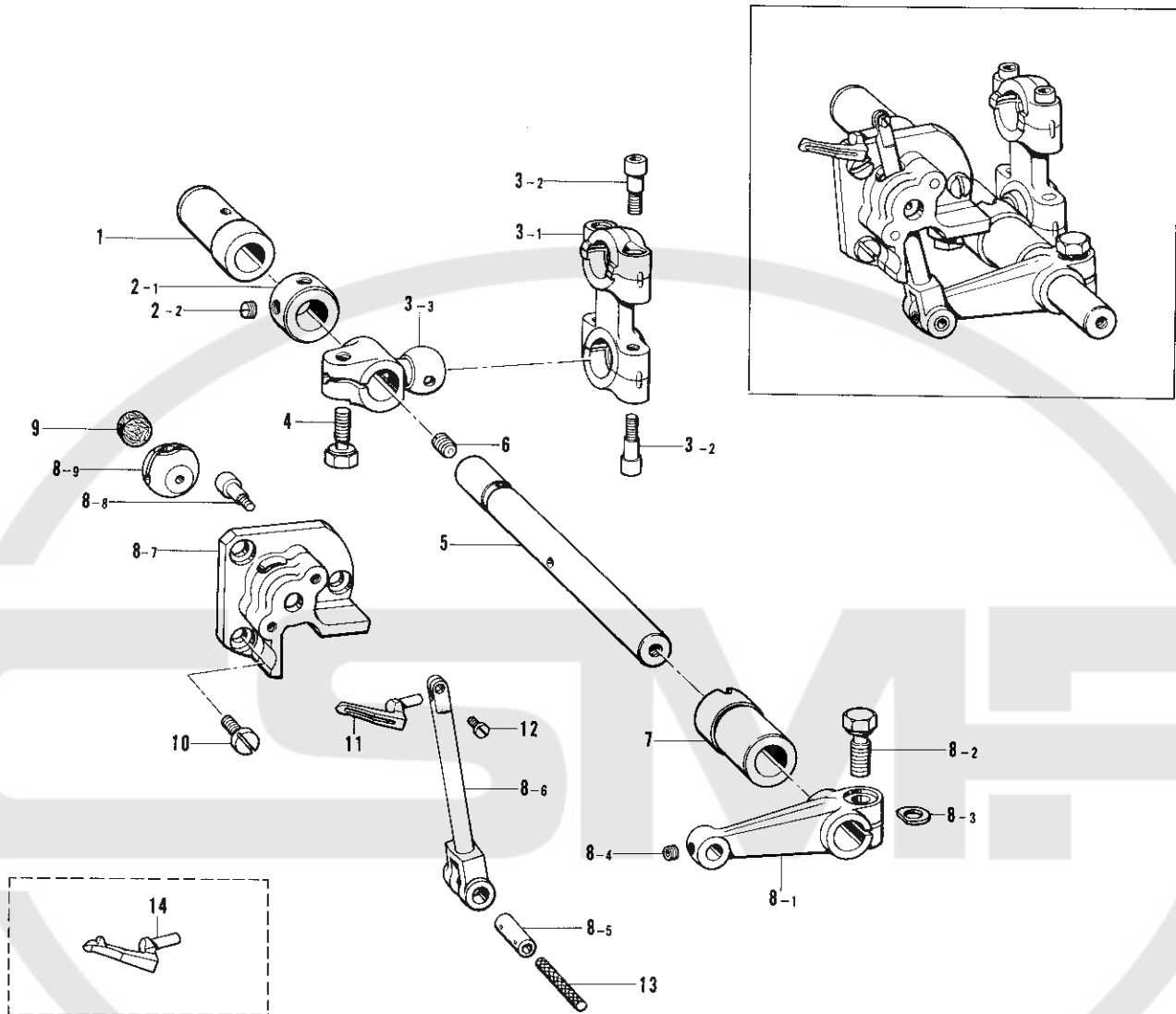


| Ref. No. | Name of Parts  | Q'ty | Parts No.   | Assembly No.                                      | Ref. No. | Name of Parts                                 | Q'ty | Parts No. | Assembly No. |
|----------|----------------|------|-------------|---------------------------------------------------|----------|-----------------------------------------------|------|-----------|--------------|
| B-50-1   | Needle Clamp 2 | 1    | 146427-0-01 | B-50<br>Needle Clamp<br>2 Assembly<br>154914-0-01 | B-54     | Needle Plate                                  | 1    |           |              |
| B-50-2   | Screw 3.18     | 2    |             |                                                   | B-55     | Needle Plate                                  | 1    |           |              |
| B-51-1   | Needle Clamp 3 | 1    | 146427-0-01 | B-51<br>Needle Clamp<br>3 Assembly<br>154916-0-01 | B-56     | Needle Plate                                  | 1    |           |              |
| B-51-2   | Screw 3.18     | 2    |             |                                                   | B-57     | Needle Plate<br>(Ruffling, Ruffling W/piping) | 1    |           |              |
| B-52-1   | Needle Clamp 5 | 1    | 146427-0-01 | B-52<br>Needle Clamp<br>5 Assembly<br>154918-0-01 | B-58     | Needle Plate<br>(Ruffling, Ruffling W/piping) | 1    |           |              |
| B-52-2   | Screw 3.18     | 2    |             |                                                   | B-59     | Needle Plate<br>(Ruffling, Ruffling W/piping) | 1    |           |              |
| B-53-1   | Needle Clamp 7 | 1    | 146427-0-01 | B-53<br>Needle Clamp<br>7 Assembly<br>154920-0-01 | B-60     | Needle Plate (Binding)                        | 1    |           |              |
| B-53-2   | Screw 3.18     | 2    |             |                                                   | B-61     | Needle Plate (Denim)                          | 1    |           |              |
|          |                |      |             |                                                   | B-62     | Needle Plate                                  | 1    |           |              |

This technical drawing is an exploded view of a mechanical assembly, likely a pump or motor component. It consists of 24 numbered parts arranged in three rows. The top row shows the main shaft assembly (1-13), including a shaft with a pin (1), a nut (2), a flange (3), a washer (4), a lock washer (6), a nut (7), a shaft (8), a pulley (9), a pulley (10), a pulley (11-1), a pin (12), a nut (11-2), and a pin (13). The middle row shows the housing and gear components (14-24), including a housing (14), a housing (15), a housing (16), a housing (17), a housing (18), a housing (19), a gear (20), a gear (21-1), a housing (21-2), a housing (22), a housing (23), and a pin (24). The bottom row shows a perspective view of the assembled unit.

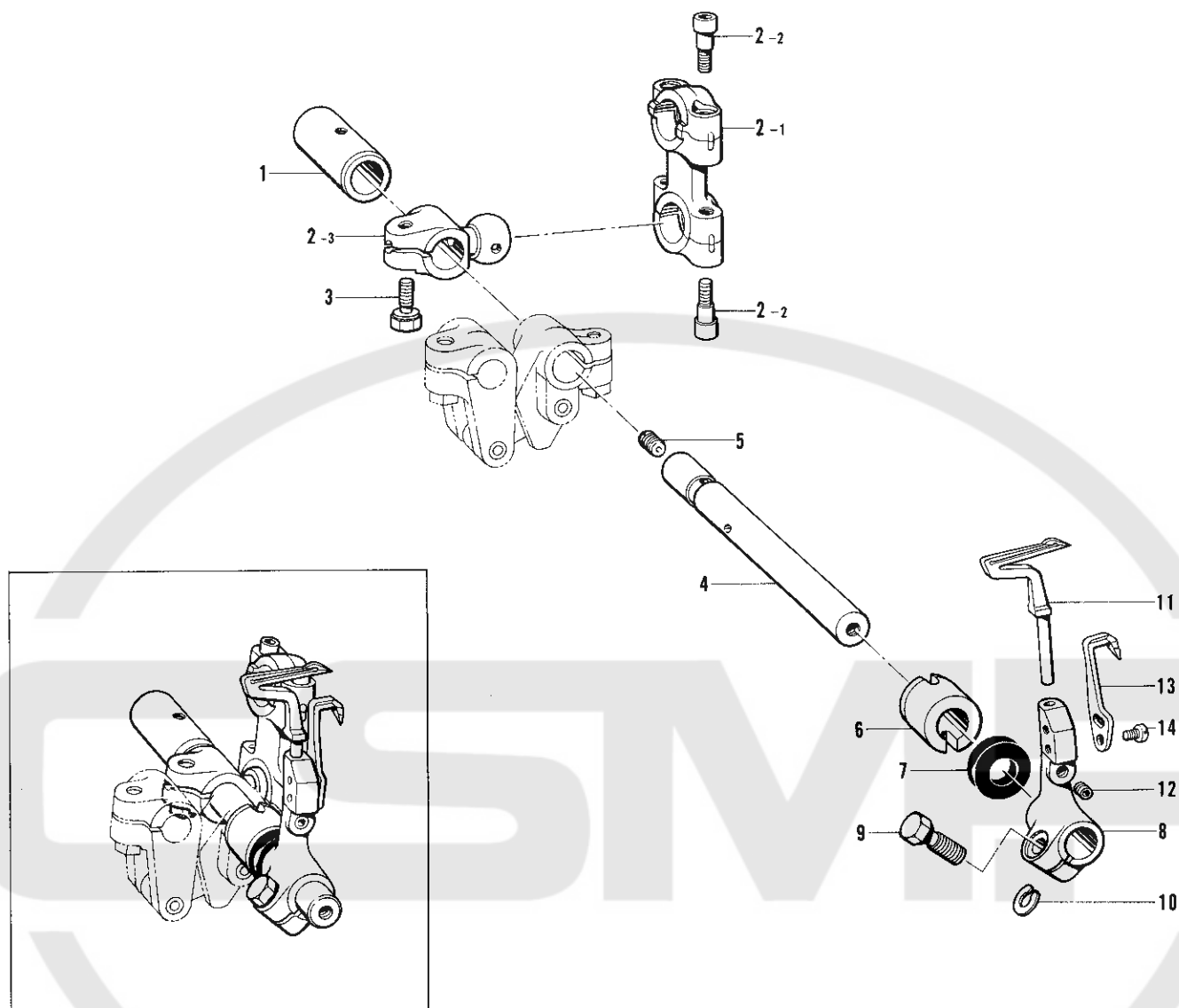
\*Crank Shaft Assembly (B-15, C-8, D-3, E-2, J-5) 155319-0-01

## D. Over Looper Mechanism



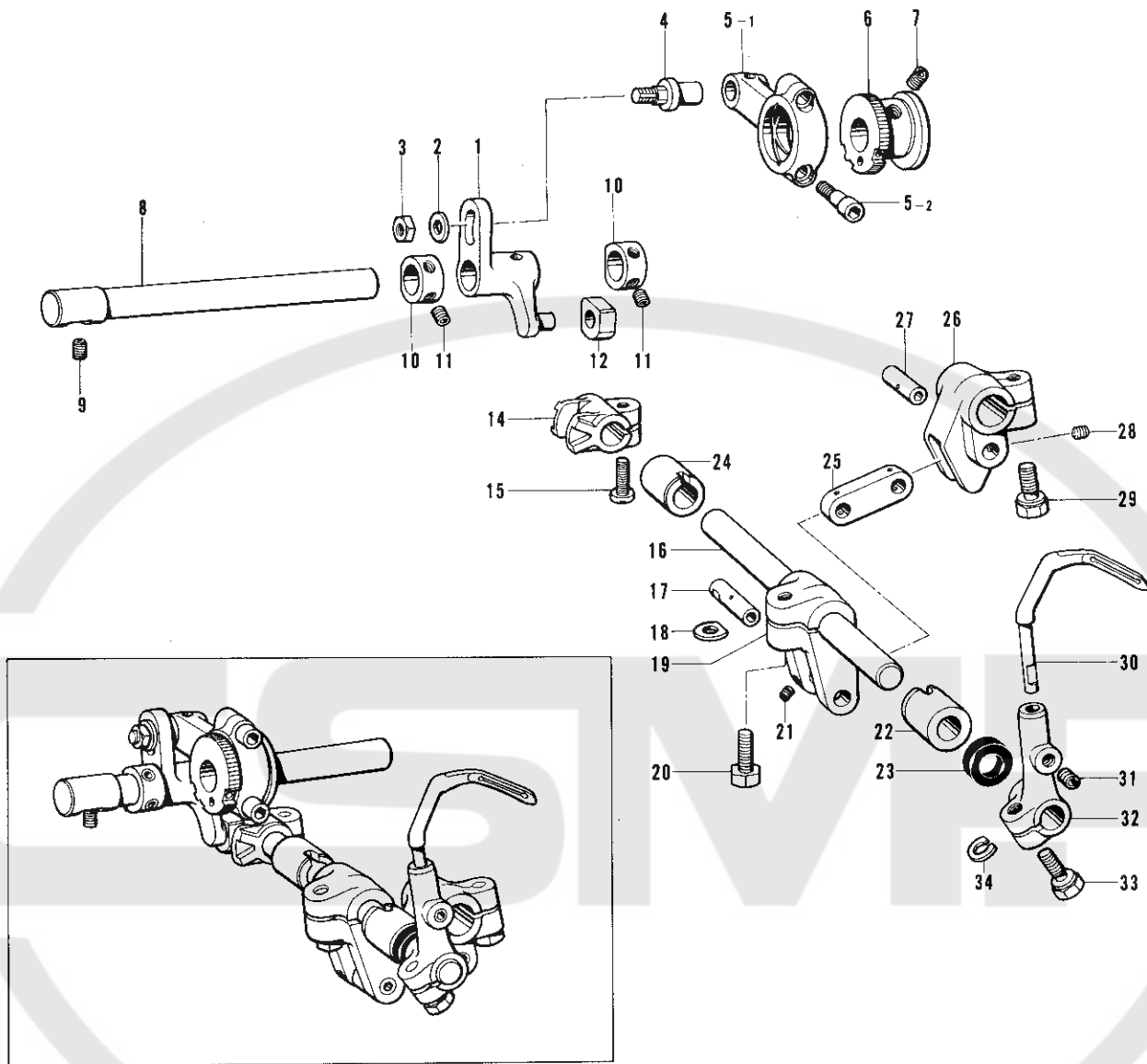
| Ref. No. | Name of Parts             | Q'ty | Parts No.   | Assembly No.                                             | Ref. No. | Name of Parts                  | Q'ty | Parts No.   | Assembly No.                                  |
|----------|---------------------------|------|-------------|----------------------------------------------------------|----------|--------------------------------|------|-------------|-----------------------------------------------|
| D- 1     | Bushing (B)               | 1    | 155229-0-00 |                                                          | D- 8-3   | Spacer                         | 1    | 155162-0-01 |                                               |
| D- 2-1   | Set Collar                | 1    |             | D-2 Collar Assembly<br>155863-0-01                       | D- 8-4   | Screw 3.57                     | 1    | 148294-0-01 |                                               |
| D- 2-2   | Screw 5.95                | 2    | 152718-0-01 |                                                          | D- 8-5   | Over Looper Holding Shaft      | 1    |             | D-8<br>Over Looper<br>Assembly<br>155231-0-01 |
| D- 3-1   | Looper Connecting Rod     | 1    |             | *D-3 Looper<br>Connecting Rod<br>Assembly<br>155225-0-01 | D- 8-6   | Over Looper Holder             | 1    |             |                                               |
| D- 3-2   | Screw 4.37 x 14           | 4    | 148425-0-01 |                                                          | D- 8-7   | Over Looper Holder Guide Base  | 1    |             |                                               |
| D- 3-3   | Looper Connecting Lever   | 1    |             |                                                          | D- 8-8   | Screw 4.37 x 14                | 2    | 148425-0-01 |                                               |
| D- 4     | Bolt 6.35 x 14            | 1    | 155516-0-01 |                                                          | D- 8-9   | Over Looper Holder Guide Block | 1    |             |                                               |
| D- 5     | Looper Shaft              | 1    | 155228-0-01 |                                                          | D- 9     | Felt                           | 1    | 155238-0-00 |                                               |
| D- 6     | Screw 5.56                | 1    | 013750-5-12 |                                                          | D-10     | Screw 4.37 x 8                 | 3    | 009680-8-12 |                                               |
| D- 7     | Bushing (F)               | 1    | 155230-0-00 |                                                          | D-11     | Over Looper                    | 1    | 155240-0-01 |                                               |
| D- 8-1   | Over Looper Driving Lever | 1    |             | D-8 Over Looper<br>Assembly<br>155231-0-01               | D-12     | Screw 3.18 x 6                 | 1    | 009660-6-12 |                                               |
| D- 8-2   | Bolt 6.35 x 16            | 1    | 149170-0-01 |                                                          | D-13     | Wick 6 x 6 (32)                | 1    | 140417-0-00 |                                               |
|          |                           |      |             |                                                          | D-14     | Spreader                       | 1    | 155241-0-01 |                                               |

## E. Under Looper Mechanism



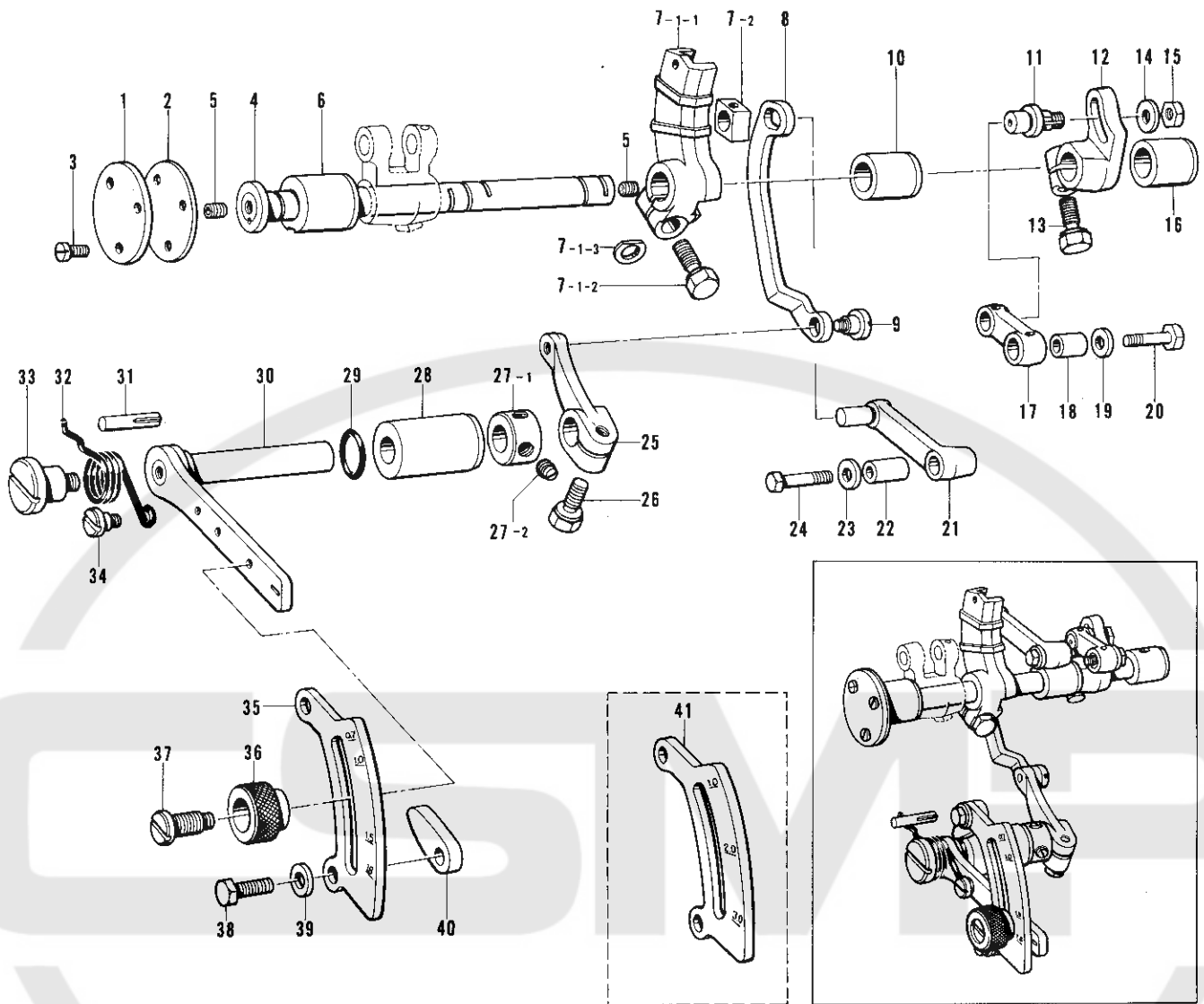
| Ref. No. | Name of Parts                  | Q'ty | Parts No.   | Assembly No.                                       | Ref. No. | Name of Parts        | Q'ty | Parts No.   | Assembly No. |
|----------|--------------------------------|------|-------------|----------------------------------------------------|----------|----------------------|------|-------------|--------------|
| E- 1     | Under Looper Shaft Bushing (B) | 1    | 155245-0-00 |                                                    | E- 7     | Seal                 | 1    | 155247-0-00 |              |
| E- 2-1   | Looper Connecting Rod          | 1    |             | *E-2 Looper Connecting Rod Assembly<br>155225-0-01 | E- 8     | Under Looper Holder  | 1    | 155248-0-01 |              |
| E- 2-2   | Screw 4.37 x 14                | 4    | 148425-0-01 |                                                    | E- 9     | Bolt 5.56 x 14       | 1    | 149171-0-01 |              |
| E- 2-3   | Looper Connecting Lever        | 1    |             |                                                    | E-10     | Spacer               | 1    | 148782-0-01 |              |
| E- 3     | Bolt 6.35 x 14                 | 1    | 155516-0-01 |                                                    | E-11     | Under Looper         | 1    | 144049-0-01 |              |
| E- 4     | Under Looper Shaft             | 1    | 155244-0-01 |                                                    | E-12     | Screw 4.37           | 1    | 014680-4-22 |              |
| E- 5     | Screw 5.56                     | 1    | 013750-5-12 |                                                    | E-13     | Movable Needle Guard | 1    | 144127-0-02 |              |
| E- 6     | Under Looper Shaft Bushing (F) | 1    | 155246-0-00 |                                                    | E-14     | Screw 3.57 x 8       | 2    | 009670-8-12 |              |

## F. Double Chain Stitch Looper Mechanism



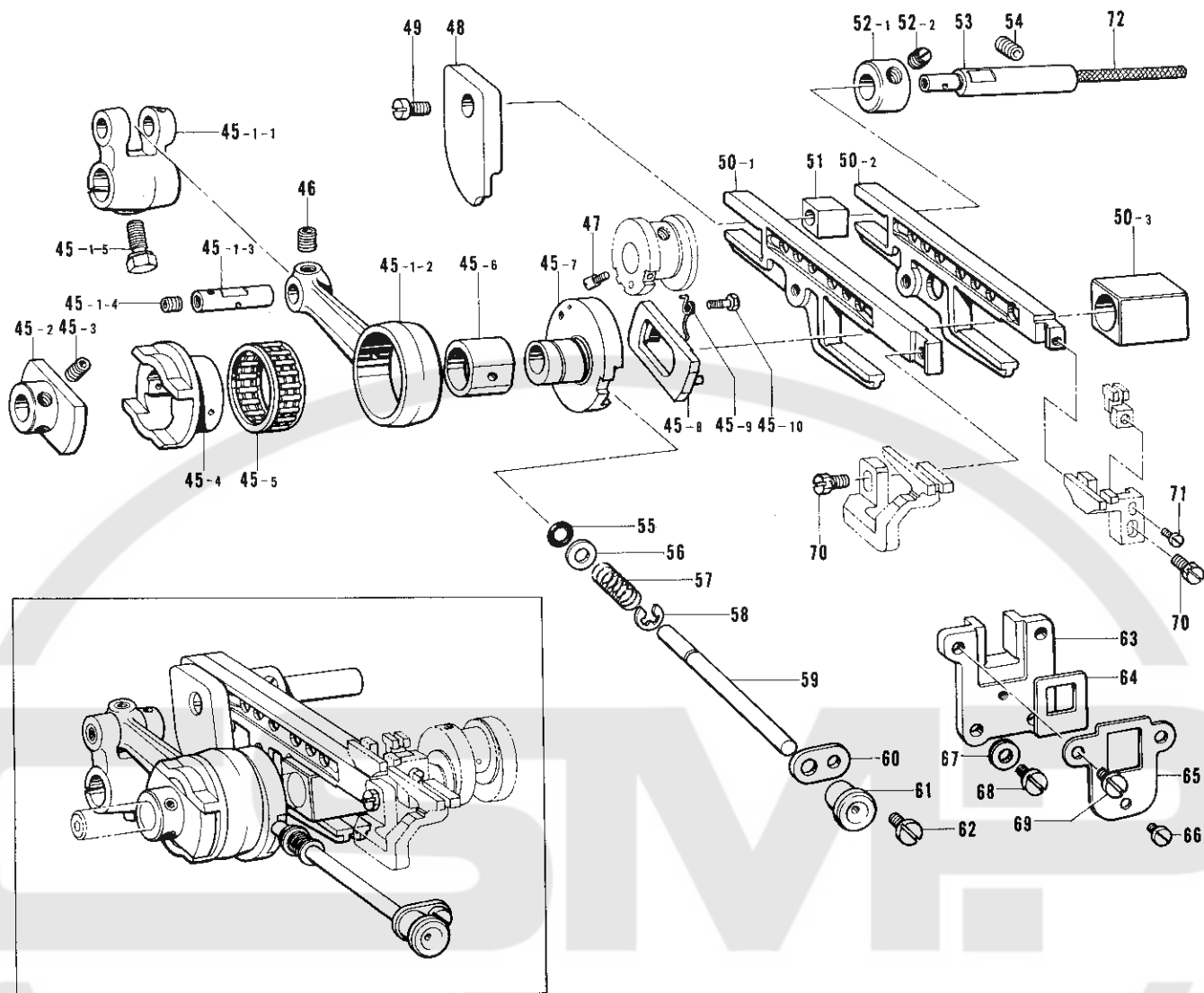
| Ref. No. | Name of Parts                         | Q'ty | Parts No.   | Assembly No.                                        | Ref. No. | Name of Parts                     | Q'ty | Parts No.   | Assembly No. |
|----------|---------------------------------------|------|-------------|-----------------------------------------------------|----------|-----------------------------------|------|-------------|--------------|
| F- 1     | Longitudinal Feed Lever               | 1    | 155252-0-01 |                                                     | F-18     | Spacer                            | 1    | 148783-0-01 |              |
| F- 2     | Washer                                | 1    | 113431-0-02 |                                                     | F-19     | Chain Stitch Looper Driving Lever | 1    | 148240-0-01 |              |
| F- 3     | Nut                                   | 1    | 148838-0-01 |                                                     | F-20     | Bolt 5.95 x 14                    | 1    | 017761-4-12 |              |
| F- 4     | Pin                                   | 1    | 155253-0-01 |                                                     | F-21     | Screw 3.18                        | 1    | 146427-0-01 |              |
| F- 5-1   | Longitudinal Feed Driving Rod         | 1    |             | F-5<br>Longitudinal<br>Feed Assembly<br>155250-0-01 | F-22     | Bushing (Front)                   | 1    | 155260-0-00 |              |
| F- 5-2   | Screw 4.37 x 14                       | 2    | 148425-0-01 |                                                     | F-23     | Seal                              | 1    | 155261-0-00 |              |
| F- 6     | Longitudinal Eccentric Cam            | 1    | 155249-0-01 |                                                     | F-24     | Bushing (Rear)                    | 1    | 155259-0-00 |              |
| F- 7     | Screw 4.37                            | 2    | 014680-4-22 |                                                     | F-25     | Double-Chain Stitch Link          | 1    | 155257-0-01 |              |
| F- 8     | Longitudinal Feed Lever Shaft         | 1    | 155254-0-01 |                                                     | F-26     | Driving Arm                       | 1    | 155256-0-01 |              |
| F- 9     | Screw 4.37                            | 1    | 014680-6-22 |                                                     | F-27     | Under Looper Holder Pin           | 1    | 148232-0-01 |              |
| F-10     | Set Coller                            | 2    | 155533-0-01 |                                                     | F-28     | Screw 3.57                        | 1    | 148294-0-01 |              |
| F-11     | Screw 4.37                            | 4    | 014680-4-22 |                                                     | F-29     | Bolt 6.35 x 14                    | 1    | 155516-0-01 |              |
| F-12     | Slide Block                           | 1    | 140313-0-01 |                                                     | F-30     | Chain Stitch Looper               | 1    | 146635-0-01 |              |
| F-14     | Longitudinal Feed Cam                 | 1    | 155255-0-01 |                                                     | F-31     | Screw 4.37                        | 1    | 014680-4-22 |              |
| F-15     | Screw 4.76 x 12                       | 1    | 009711-2-12 |                                                     | F-32     | Chain Stitch Looper Holder        | 1    | 155262-0-01 |              |
| F-16     | Longitudinal Feed Shaft               | 1    | 155258-0-01 |                                                     | F-33     | Bolt 5.56 x 14                    | 1    | 149171-0-01 |              |
| F-17     | Chain Stitch Looper Driving Lever Pin | 1    | 148241-0-01 |                                                     | F-34     | Spacer                            | 1    | 148782-0-01 |              |

## G. Feed Mechanism (1)



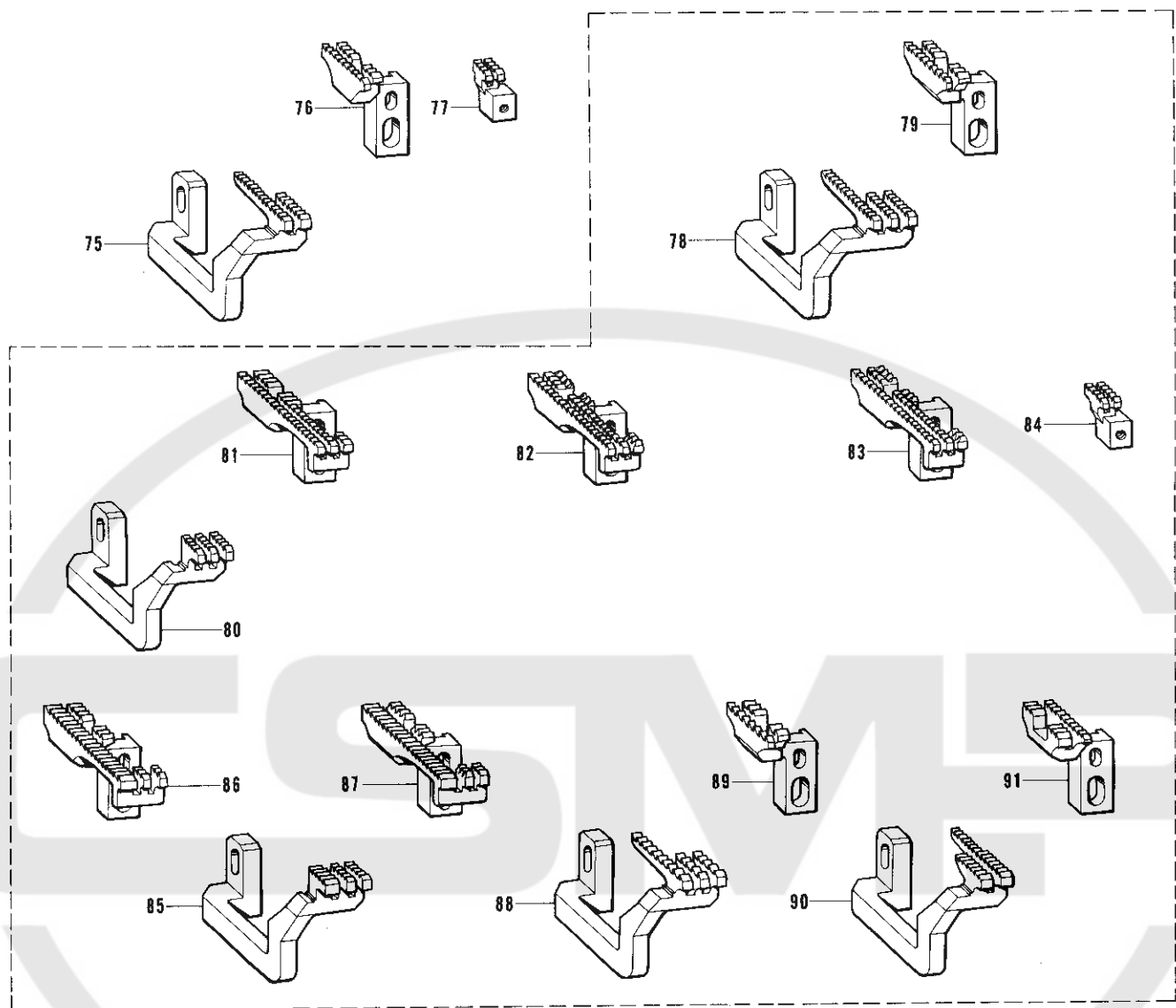
| Ref. No. | Name of Parts                   | Q'ty | Parts No.   | Assembly No.                                                     | Ref. No. | Name of Parts                           | Q'ty | Parts No.   | Assembly No.                           |
|----------|---------------------------------|------|-------------|------------------------------------------------------------------|----------|-----------------------------------------|------|-------------|----------------------------------------|
| G- 1     | Cover for Feed Shaft Busing (L) | 1    | 155144-0-01 |                                                                  | G-21     | Differential Feed Link                  | 1    | 155164-0-01 |                                        |
| G- 2     | Packing                         | 1    | 155145-0-00 |                                                                  | G-22     | Differential Feed Link Bushing          | 1    | 155165-0-01 |                                        |
| G- 3     | Screw 3.57 x 8                  | 3    | 009670-8-12 |                                                                  | G-23     | Washer                                  | 1    | 155157-0-01 |                                        |
| G- 4     | Feed Shaft                      | 1    | 155140-0-01 |                                                                  | G-24     | Feed Link Shaft (Large)                 | 1    | 140217-0-01 |                                        |
| G- 5     | Screw 5.56                      | 2    | 014770-6-22 |                                                                  | G-25     | Differential Feed Link Lever            | 1    | 155168-0-01 |                                        |
| G- 6     | Feed Shaft Bushing (L)          | 1    | 155141-0-00 |                                                                  | G-26     | Bolt 6.35 x 14                          | 1    | 155516-0-01 |                                        |
| G- 7-1-1 | Differential Feed Arm           | 1    |             | G-7<br>Differential<br>Feed Arm<br>Block Assembly<br>155159-0-01 | G-27-1   | Set Collar                              | 1    |             | G-27<br>Collar Assembly<br>181969-0-03 |
| G- 7-1-2 | Bolt 6.35 x 16                  | 1    | 149170-0-01 |                                                                  | G-27-2   | Screw 6.35                              | 2    | 101706-0-01 |                                        |
| G- 7-1-3 | Spacer                          | 1    | 155162-0-01 |                                                                  | G-28     | Adjusting Lever Bushing                 | 1    | 155170-0-00 |                                        |
| G- 7-2   | Differential Feed Block         | 1    |             |                                                                  | G-29     | "O" Ring                                | 1    | 109203-0-01 |                                        |
| G- 8     | Differential Feed Adjuster Link | 1    | 155166-0-01 |                                                                  | G-30     | Differential Feed Adjusting Lever       | 1    | 155169-0-01 |                                        |
| G- 9     | Screw 5.56                      | 1    | 155167-0-01 |                                                                  | G-31     | Pin                                     | 1    | 140063-0-01 |                                        |
| G-10     | Feed Shaft Bushing (M)          | 1    | 155142-0-00 |                                                                  | G-32     | Spring                                  | 1    | 155171-0-01 |                                        |
| G-11     | Main Feed Link Shaft            | 1    | 155155-0-01 |                                                                  | G-33     | Stud Screw 5.56                         | 1    | 146559-0-01 |                                        |
| G-12     | Main Feed Arm                   | 1    | 155154-0-01 |                                                                  | G-34     | Stud Screw 4.76                         | 1    | 100294-0-02 |                                        |
| G-13     | Bolt 6.35 x 16                  | 1    | 149170-0-01 |                                                                  | G-35     | Differential Stitch Control             | 1    | 155172-0-01 |                                        |
| G-14     | Washer                          | 1    | 113431-0-02 |                                                                  | G-36     | Knob                                    | 1    | 155175-0-01 |                                        |
| G-15     | Nut                             | 1    | 148838-0-01 |                                                                  | G-37     | Screw                                   | 1    | 155176-0-01 |                                        |
| G-16     | Feed Shaft Bushing (R)          | 1    | 155143-0-00 |                                                                  | G-38     | Bolt 6.35 x 14                          | 2    | 017781-4-12 |                                        |
| G-17     | Main Feed Link                  | 1    | 155158-0-01 |                                                                  | G-39     | Washer                                  | 2    | 118735-0-02 |                                        |
| G-18     | Main Feed Link Bushing          | 1    | 155156-0-01 |                                                                  | G-40     | Stopper for Differential Stitch Control | 2    | 146563-0-01 |                                        |
| G-19     | Washer                          | 1    | 155157-0-01 |                                                                  | G-41     | Differential Stitch Control (Ruffling)  | 1    | 155174-0-01 |                                        |
| G-20     | Main Feed Link Shaft (Small)    | 1    | 140210-0-01 |                                                                  |          |                                         |      |             |                                        |

## G. Feed Mechanism (2)



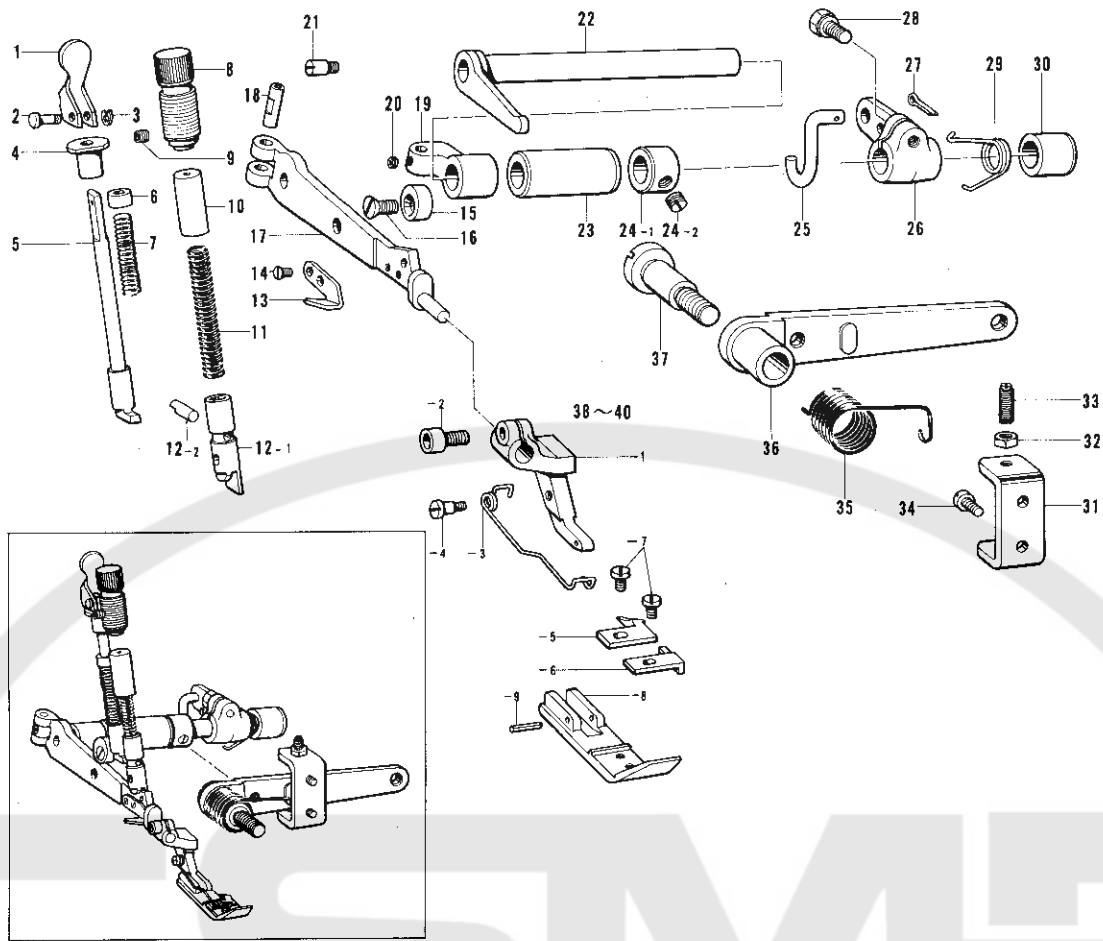
| Ref. No. | Name of Parts                  | Q'ty | Parts No.   | Assembly No.                                            | Ref. No. | Name of Parts                      | Q'ty | Parts No.   | Assembly No.                           |
|----------|--------------------------------|------|-------------|---------------------------------------------------------|----------|------------------------------------|------|-------------|----------------------------------------|
| G-45-1-1 | Feed Arm                       | 1    |             | G-45<br>Eccentric Wheel<br>Assembly<br>155125-0-01      | G-52-1   | Set Collar                         | 1    |             | G-52<br>Collar Assembly<br>181969-0-03 |
| G-45-1-2 | Feed Rod                       | 1    |             |                                                         | G-52-2   | Screw 6.35                         | 2    | 101706-0-01 |                                        |
| G-45-1-3 | Pin                            | 1    |             |                                                         | G-53     | Feed Bar Guide Block Shaft         | 1    | 155152-0-01 |                                        |
| G-45-1-4 | Screw 6.35                     | 1    | 014770-6-22 |                                                         | G-54     | Screw 6.35                         | 1    | 014780-6-22 |                                        |
| G-45-1-5 | Bolt 6.35 x 16                 | 1    | 149170-0-01 |                                                         | G-55     | Packing                            | 1    | 118770-0-01 |                                        |
| G-45-2   | Eccentric Wheel Holder         | 1    |             |                                                         | G-56     | Washer                             | 1    | 113431-0-02 |                                        |
| G-45-3   | Screw 4.37                     | 2    | 014680-4-22 |                                                         | G-57     | Spring                             | 1    | 155139-0-01 |                                        |
| G-45-4   | Eccentric Wheel                | 1    |             |                                                         | G-58     | Stop Ring                          | 1    | 048040-3-42 |                                        |
| G-45-5   | Needle Roller Bearing 28       | 1    |             |                                                         | G-59     | Feed Adjusting Shaft               | 1    | 155138-0-01 |                                        |
| G-45-6   | Adjuster Eccentric Wheel Block | 1    |             |                                                         | G-60     | Supporter for Feed Adjusting Shaft | 1    | 146536-0-01 |                                        |
| G-45-7   | Adjuster Eccentric Wheel       | 1    |             | G-50 Feed Bar<br>Guide Block<br>Assembly<br>155146-0-01 | G-61     | Cap                                | 1    | 155348-0-00 |                                        |
| G-45-8   | Ratchet Stopper                | 1    |             |                                                         | G-62     | Screw 3.57 x 6                     | 1    | 009670-6-12 |                                        |
| G-45-9   | Spring                         | 1    | 155132-0-01 |                                                         | G-63     | Feed Bar Guide                     | 1    | 155151-0-00 |                                        |
| G-45-10  | Stud Screw 2.38                | 1    | 155133-0-01 |                                                         | G-64     | Fragment Protector                 | 1    | 155177-0-00 |                                        |
| G-46     | Screw 4.37                     | 1    | 014680-4-22 |                                                         | G-65     | Fragment Protector Plate           | 1    | 155178-0-01 |                                        |
| G-47     | Screw 2.38                     | 1    | 155560-0-01 |                                                         | G-66     | Screw 3.57                         | 1    | 106568-0-03 |                                        |
| G-48     | Differential Link Guide        | 1    | 155153-0-00 |                                                         | G-67     | Washer                             | 2    | 100645-0-03 |                                        |
| G-49     | Screw 4.37 x 7                 | 1    | 009680-7-12 |                                                         | G-68     | Screw 4.37                         | 2    | 107407-0-03 |                                        |
| G-50-1   | Differential Feed Bar          | 1    |             |                                                         | G-69     | Screw 4.37                         | 2    | 107407-0-03 |                                        |
| G-50-2   | Main Feed Bar                  | 1    |             |                                                         | G-70     | Bolt 4.37                          | 2    | 117516-0-01 |                                        |
| G-50-3   | Feed Lifting Slide Block       | 1    |             |                                                         | G-71     | Screw 2.38 x 8                     | 1    | 009630-8-12 |                                        |
| G-51     | Feed Bar Guide Block           | 1    | 146547-0-00 |                                                         | G-72     | Wick 8 x 8 (90)                    | 1    | 147362-0-00 |                                        |

## G. Feed Mechanism (3)



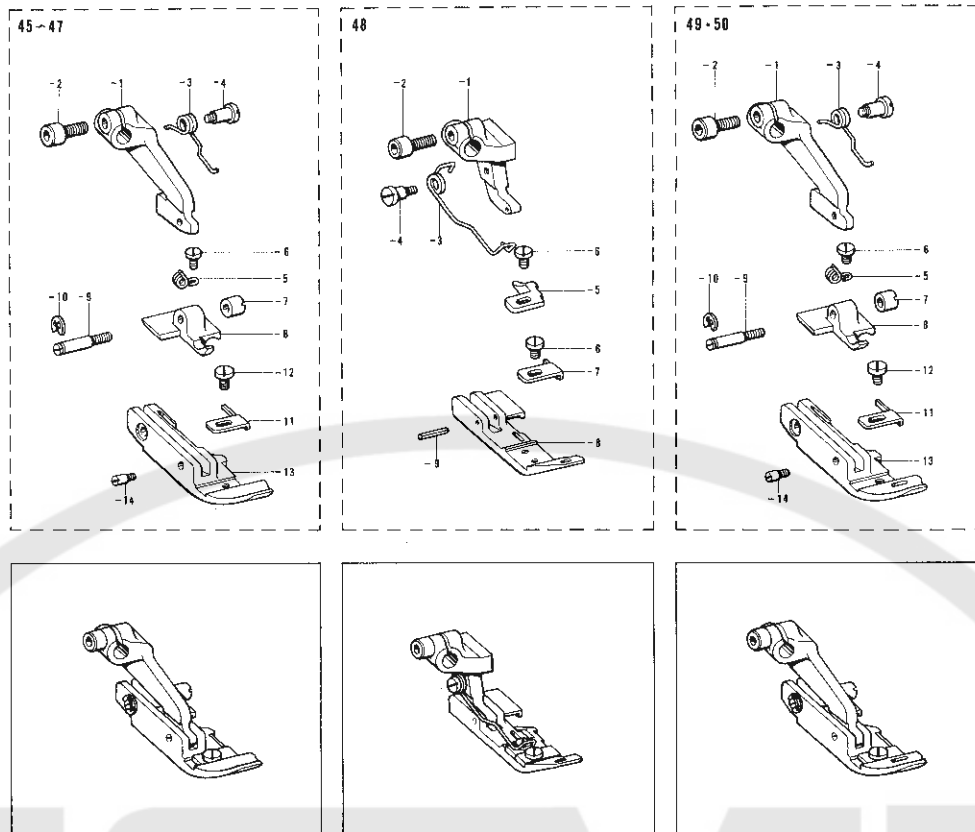
| Ref. No. | Name of Parts                                       | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts                                       | Q'ty | Parts No.   | Assembly No. |
|----------|-----------------------------------------------------|------|-------------|--------------|----------|-----------------------------------------------------|------|-------------|--------------|
| G-75     | Differential Feed Dog                               | 1    | 146572-0-01 |              | G-84     | Chain Feed Dog (Ruffling. Ruffling W/piping)        | 1    | 146578-0-01 |              |
| G-76     | Main Feed Dog                                       | 1    | 146567-0-01 |              | G-85     | Differential Feed Dog (Ruffling. Ruffling W/piping) | 1    | 146576-0-01 |              |
| G-77     | Chain Feed Dog                                      | 1    | 146577-0-01 |              | G-86     | Main Feed Dog (Ruffling)                            | 1    | 146571-0-01 |              |
| G-78     | Differential Feed Dog                               | 1    | 146573-0-01 |              | G-87     | Main Feed Dog (Ruffling W/piping)                   | 1    | 147831-0-01 |              |
| G-79     | Main Feed Dog                                       | 1    | 146568-0-01 |              | G-88     | Differential Feed Dog (Denim)                       | 1    | 146574-0-01 |              |
| G-80     | Differential Feed Dog (Ruffling. Ruffling W/piping) | 1    | 146575-0-01 |              | G-89     | Main Feed Dog (Denim)                               | 1    | 146569-0-01 |              |
| G-81     | Main Feed Dog (Ruffling)                            | 1    | 146570-0-01 |              | G-90     | Differential Feed Dog                               | 1    | 151470-0-01 |              |
| G-82     | Main Feed Dog (Ruffling W/piping)                   | 1    | 147829-0-01 |              | G-91     | Main Feed Dog                                       | 1    | 151469-0-01 |              |
| G-83     | Main Feed Dog (Ruffling W/piping)                   | 1    | 147830-0-01 |              |          |                                                     |      |             |              |

## H. Presser Foot Mechanism (1)



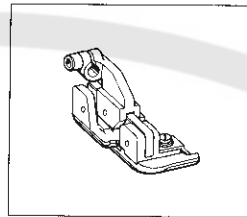
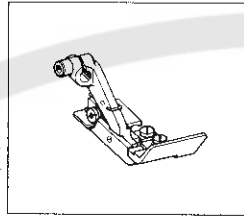
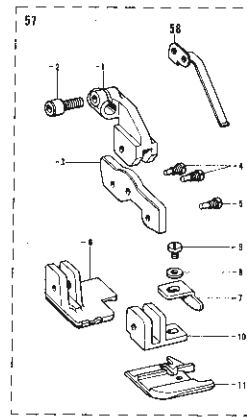
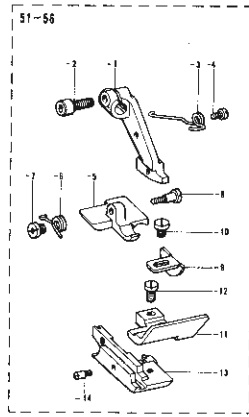
| Ref. No. | Name of Parts                    | Q'ty | Parts No.   | Assembly No.                                   | Ref. No. | Name of Parts             | Q'ty | Parts No.   | Assembly No.                                                  |
|----------|----------------------------------|------|-------------|------------------------------------------------|----------|---------------------------|------|-------------|---------------------------------------------------------------|
| H- 1     | Presser Bar Lifter               | 1    | 147759-0-01 |                                                | H-31     | Lever Adjuster Plate      | 1    | 146522-0-01 |                                                               |
| H- 2     | Presser Bar Lifter Pin           | 1    | 144084-0-01 |                                                | H-32     | Nut                       | 2    | 110161-0-06 |                                                               |
| H- 3     | Stop Ring                        | 1    | 048020-3-42 |                                                | H-33     | Screw 4.76                | 2    | 153483-0-01 |                                                               |
| H- 4     | Washer                           | 1    | 144083-0-01 |                                                | H-34     | Screw 4.37 x 7            | 2    | 009680-7-12 |                                                               |
| H- 5     | Presser Bar Lifter Shaft         | 1    | 154952-0-01 |                                                | H-35     | Spring                    | 1    | 143325-0-01 |                                                               |
| H- 6     | Bushing                          | 1    | 154954-0-01 |                                                | H-36     | Presser Foot Lifter Lever | 1    | 143323-1-03 |                                                               |
| H- 7     | Spring                           | 1    | 154953-0-01 |                                                | H-37     | Stud Screw 7.94           | 1    | 148372-0-01 |                                                               |
| H- 8     | Screw                            | 1    | 154946-0-01 |                                                | H-38-1   | Sub-Presser Arm           | 1    |             | H-38<br>Presser Foot<br>Assembly<br>155106-0-01<br>(2 mm)     |
| H- 9     | Screw 3.18                       | 1    | 146427-0-01 |                                                | H-38-2   | Bolt 3.57 x 8             | 1    | 154965-0-01 |                                                               |
| H-10     | Spring Presser                   | 1    | 154951-0-01 |                                                | H-38-3   | Spring                    | 1    | 142246-0-01 |                                                               |
| H-11     | Spring                           | 1    | 154950-0-01 |                                                | H-38-4   | Screw                     | 1    | 142247-0-01 |                                                               |
| H-12-1   | Presser Bar                      | 1    |             | H-12<br>Presser Bar<br>Assembly<br>154947-0-01 | H-38-5   | Stitch Tongue             | 1    | 142244-0-01 |                                                               |
| H-12-2   | Pin                              | 1    |             |                                                | H-38-6   | Chip Guard (3)            | 1    | 142245-0-01 | H-39<br>Presser Foot<br>Assembly<br>155124-0-01<br>(3 ~ 5 mm) |
| H-13     | Trimming Knife                   | 1    | 148259-0-01 |                                                | H-38-7   | Screw 2.38 x 3.5          | 2    | 009639-3-12 |                                                               |
| H-14     | Screw 3.18                       | 2    | 141542-0-01 |                                                | H-38-8   | Presser Foot 2C           | 1    |             |                                                               |
| H-15     | Presser Arm Stopper              | 1    | 144088-0-01 |                                                | H-38-9   | Pin                       | 1    | 142243-0-01 |                                                               |
| H-16     | Screw 4.76                       | 1    | 107231-0-02 |                                                | H-39-1   | Sub-Presser Arm           | 1    |             | H-39<br>Presser Foot<br>Assembly<br>155124-0-01<br>(3 ~ 5 mm) |
| H-17     | Main Presser Arm                 | 1    | 154960-0-01 |                                                | H-39-2   | Bolt 3.57 x 8             | 1    | 154965-0-01 |                                                               |
| H-18     | Pin for Presser Arm Shaft        | 1    | 154962-0-01 |                                                | H-39-3   | Spring                    | 1    | 151466-0-01 |                                                               |
| H-19     | Presser Arm Supporter            | 1    | 154961-0-01 |                                                | H-39-4   | Screw                     | 1    | 142247-0-01 |                                                               |
| H-20     | Screw 4.37                       | 1    | 153675-0-01 |                                                | H-39-5   | Stitch Tongue             | 1    | 142244-0-01 | H-40<br>Presser Foot<br>Assembly<br>155124-0-01<br>(6 ~ 7 mm) |
| H-21     | Screw 4.37                       | 2    | 154875-0-01 |                                                | H-39-6   | Chip Guard (3)            | 1    | 142245-0-01 |                                                               |
| H-22     | Presser Arm Shaft                | 1    | 154959-0-01 |                                                | H-39-7   | Screw 2.38 x 3.5          | 2    | 009639-3-12 |                                                               |
| H-23     | Bushing (Left)                   | 1    | 154958-0-00 |                                                | H-39-8   | Presser Foot 3C           | 1    |             |                                                               |
| H-24-1   | Set Collar                       | 1    |             | H-24<br>Collar Assembly<br>181969-0-03         | H-39-9   | Pin                       | 1    | 142243-0-01 |                                                               |
| H-24-2   | Screw 6.35                       | 2    | 101706-0-01 |                                                | H-40-1   | Sub-Presser Arm           | 1    |             | H-40<br>Presser Foot<br>Assembly<br>155124-0-01<br>(6 ~ 7 mm) |
| H-25     | Presser Foot Lifter Link         | 1    | 154955-0-01 |                                                | H-40-2   | Bolt 3.57 x 8             | 1    | 154965-0-01 |                                                               |
| H-26     | Presser Foot Lifter Inside Lever | 1    | 154956-0-01 |                                                | H-40-3   | Spring                    | 1    | 151466-0-01 |                                                               |
| H-27     | Pin                              | 1    | 110793-0-01 |                                                | H-40-4   | Screw                     | 1    | 142247-0-01 |                                                               |
| H-28     | Bolt 6.35 x 16                   | 1    | 149170-0-01 |                                                | H-40-5   | Stitch Tongue             | 1    | 151464-0-01 | H-40<br>Presser Foot<br>Assembly<br>155124-0-01<br>(6 ~ 7 mm) |
| H-29     | Spring                           | 1    | 154957-0-01 |                                                | H-40-6   | Presser Foot (Front)      | 1    | 151465-0-01 |                                                               |
| H-30     | Bushing (Right)                  | 1    | 140262-0-00 |                                                | H-40-7   | Screw 2.38 x 3.5          | 2    | 009639-3-12 |                                                               |
|          |                                  |      |             |                                                | H-40-8   | Presser Foot              | 1    |             |                                                               |
|          |                                  |      |             |                                                | H-40-9   | Pin                       | 1    | 142243-0-01 |                                                               |

## H. Presser Foot Mechanism (2)



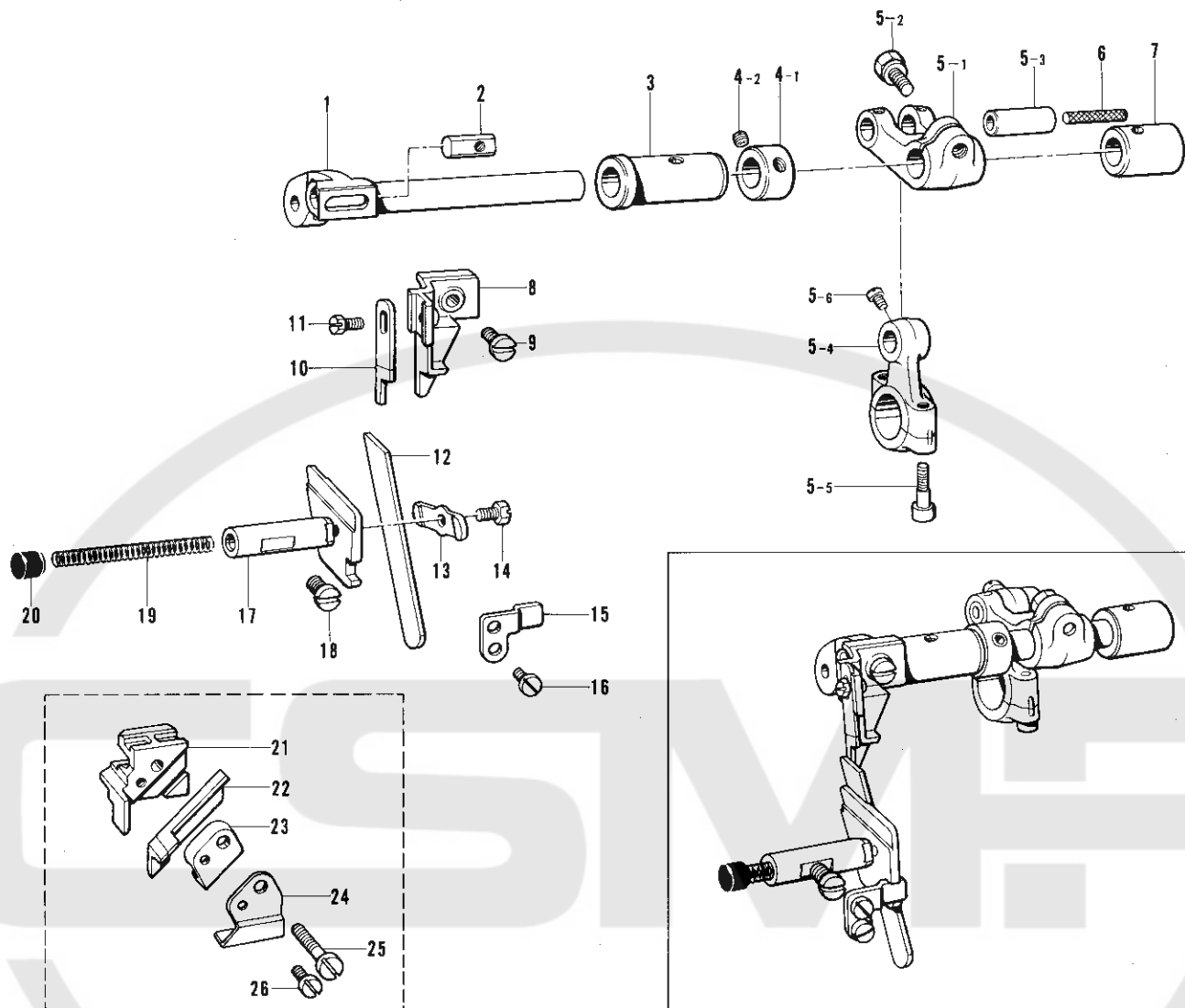
| Ref. No. | Name of Parts        | Q'ty | Parts No.   | Assembly No.                                    | Ref. No.             | Name of Parts    | Q'ty        | Parts No.                                                   | Assembly No.                                                |
|----------|----------------------|------|-------------|-------------------------------------------------|----------------------|------------------|-------------|-------------------------------------------------------------|-------------------------------------------------------------|
| H-45- 1  | Sub-Presser Arm      | 1    |             | H-45<br>Presser Foot<br>Assembly<br>156062-0-01 | H-47-13              | Presser Foot     | 1           |                                                             | H-47<br>156199-0-01<br>(Binding)                            |
| H-45- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 |                                                 | H-47-14              | Screw            | 1           | 146865-0-01                                                 |                                                             |
| H-45- 3  | Spring               | 1    | 155102-0-01 |                                                 | H-48- 1              | Sub-Presser Arm  | 1           |                                                             | H-48<br>Presser Foot<br>Assembly<br>155121-0-01<br>(Taping) |
| H-45- 4  | Screw 3.18           | 1    | 155103-0-01 |                                                 | H-48- 2              | Bolt 3.57 x 8    | 1           | 154965-0-01                                                 |                                                             |
| H-45- 5  | Spring               | 1    | 146870-0-01 |                                                 | H-48- 3              | Spring           | 1           | 142246-0-01                                                 |                                                             |
| H-45- 6  | Screw 2.38           | 1    | 122771-0-02 |                                                 | H-48- 4              | Screw            | 1           | 142247-0-01                                                 |                                                             |
| H-45- 7  | Nut 3.18             | 1    | 149262-0-01 |                                                 | H-48- 5              | Stitch Tongue    | 1           | 142244-0-01                                                 |                                                             |
| H-45- 8  | Presser Foot (Rear)  | 1    | 156065-0-01 |                                                 | H-48- 6              | Screw 2.38 x 3.5 | 2           | 009639-3-12                                                 |                                                             |
| H-45- 9  | Screw                | 1    | 149261-0-01 |                                                 | H-48- 7              | Chip Guard (3)   | 1           | 142245-0-01                                                 |                                                             |
| H-45-10  | Stop Ring            | 1    | 048025-3-42 |                                                 | H-48- 8              | Presser Foot     | 1           |                                                             |                                                             |
| H-45-11  | Presser Foot (Front) | 1    | 145147-0-01 |                                                 | H-48- 9              | Pin              | 1           | 142243-0-01                                                 |                                                             |
| H-45-12  | Screw 2.38           | 1    | 105288-0-01 |                                                 | H-49- 1              | Sub-Presser Arm  |             |                                                             | H-49<br>Presser Foot<br>Assembly<br>156195-0-01<br>(Taping) |
| H-45-13  | Presser Foot         | 1    |             |                                                 | H-49- 2              | Bolt 3.57 x 8    | 1           | 154965-0-01                                                 |                                                             |
| H-45-14  | Screw                | 1    | 146865-0-01 |                                                 | H-49- 3              | Spring           | 1           | 155102-0-01                                                 |                                                             |
| H-46- 1  | Sub-Presser Arm      | 1    |             | H-49- 4                                         | Screw                | 1                | 155103-0-01 |                                                             |                                                             |
| H-46- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 | H-49- 5                                         | Spring               | 1                | 146870-0-01 |                                                             |                                                             |
| H-46- 3  | Spring               | 1    | 155102-0-01 | H-49- 6                                         | Screw 2.38           | 1                | 122771-0-02 |                                                             |                                                             |
| H-46- 4  | Screw 3.18           | 1    | 155103-0-01 | H-49- 7                                         | Nut 3.18             | 1                | 149262-0-01 |                                                             |                                                             |
| H-46- 5  | Spring               | 1    | 146870-0-01 | H-49- 8                                         | Presser Foot (Rear)  | 1                | 156065-0-01 |                                                             |                                                             |
| H-46- 6  | Screw 2.38           | 1    | 122771-0-02 | H-49- 9                                         | Screw                | 1                | 149261-0-01 |                                                             |                                                             |
| H-46- 7  | Nut 3.18             | 1    | 149262-0-01 | H-49-10                                         | Stop Ring            | 1                | 048025-3-42 |                                                             |                                                             |
| H-46- 8  | Presser Foot (Rear)  | 1    | 156069-0-01 | H-49-11                                         | Presser Foot (Front) | 1                | 145147-0-01 |                                                             |                                                             |
| H-46- 9  | Screw                | 1    | 149266-0-01 | H-49-12                                         | Screw 2.38           | 1                | 105288-0-01 |                                                             |                                                             |
| H-46-10  | Stop Ring            | 1    | 048025-3-42 | H-49-13                                         | Presser Foot         | 1                |             |                                                             |                                                             |
| H-46-11  | Presser Foot (Front) | 1    | 145147-0-01 | H-49-14                                         | Screw                | 1                | 146865-0-01 |                                                             |                                                             |
| H-46-12  | Screw 2.38           | 1    | 105288-0-01 | H-50- 1                                         | Sub-Presser Arm      | 1                |             | H-50<br>Presser Foot<br>Assembly<br>156197-0-01<br>(Taping) |                                                             |
| H-46-13  | Presser Foot         | 1    |             | H-50- 2                                         | Bolt 3.57 x 8        | 1                | 154965-0-01 |                                                             |                                                             |
| H-46-14  | Screw                | 1    | 140270-0-01 | H-50- 3                                         | Spring               | 1                | 155102-0-01 |                                                             |                                                             |
| H-47- 1  | Sub-Presser Arm      | 1    |             | H-50- 4                                         | Screw                | 1                | 155103-0-01 |                                                             |                                                             |
| H-47- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 | H-50- 5                                         | Spring               | 1                | 146870-0-01 |                                                             |                                                             |
| H-47- 3  | Spring               | 1    | 155102-0-01 | H-50- 6                                         | Screw 2.38           | 1                | 122771-0-02 |                                                             |                                                             |
| H-47- 4  | Screw 3.18           | 1    | 155103-0-01 | H-50- 7                                         | Nut 3.18             | 1                | 149262-0-01 |                                                             |                                                             |
| H-47- 5  | Spring               | 1    | 146870-0-01 | H-50- 8                                         | Presser Foot (Rear)  | 1                | 156069-0-01 |                                                             |                                                             |
| H-47- 6  | Screw 2.38           | 1    | 122771-0-02 | H-50- 9                                         | Screw                | 1                | 149266-0-01 |                                                             |                                                             |
| H-47- 7  | Nut 3.18             | 1    | 149262-0-01 | H-50-10                                         | Stop Ring            | 1                | 048025-3-42 |                                                             |                                                             |
| H-47- 8  | Presser Foot (Rear)  | 1    | 156065-0-01 | H-50-11                                         | Presser Foot (Front) | 1                | 145147-0-01 |                                                             |                                                             |
| H-47- 9  | Screw                | 1    | 149261-0-01 | H-50-12                                         | Screw 2.38           | 1                | 105288-0-01 |                                                             |                                                             |
| H-47-10  | Stop Ring            | 1    | 048025-3-42 | H-50-13                                         | Presser Foot         | 1                |             |                                                             |                                                             |
| H-47-11  | Presser Foot (Front) | 1    | 147371-0-01 | H-50-14                                         | Screw                | 1                | 140270-0-01 |                                                             |                                                             |
| H-47-12  | Screw 2.38           | 1    | 105288-0-01 |                                                 |                      |                  |             |                                                             |                                                             |

## H. Presser Foot Mechanism (3)



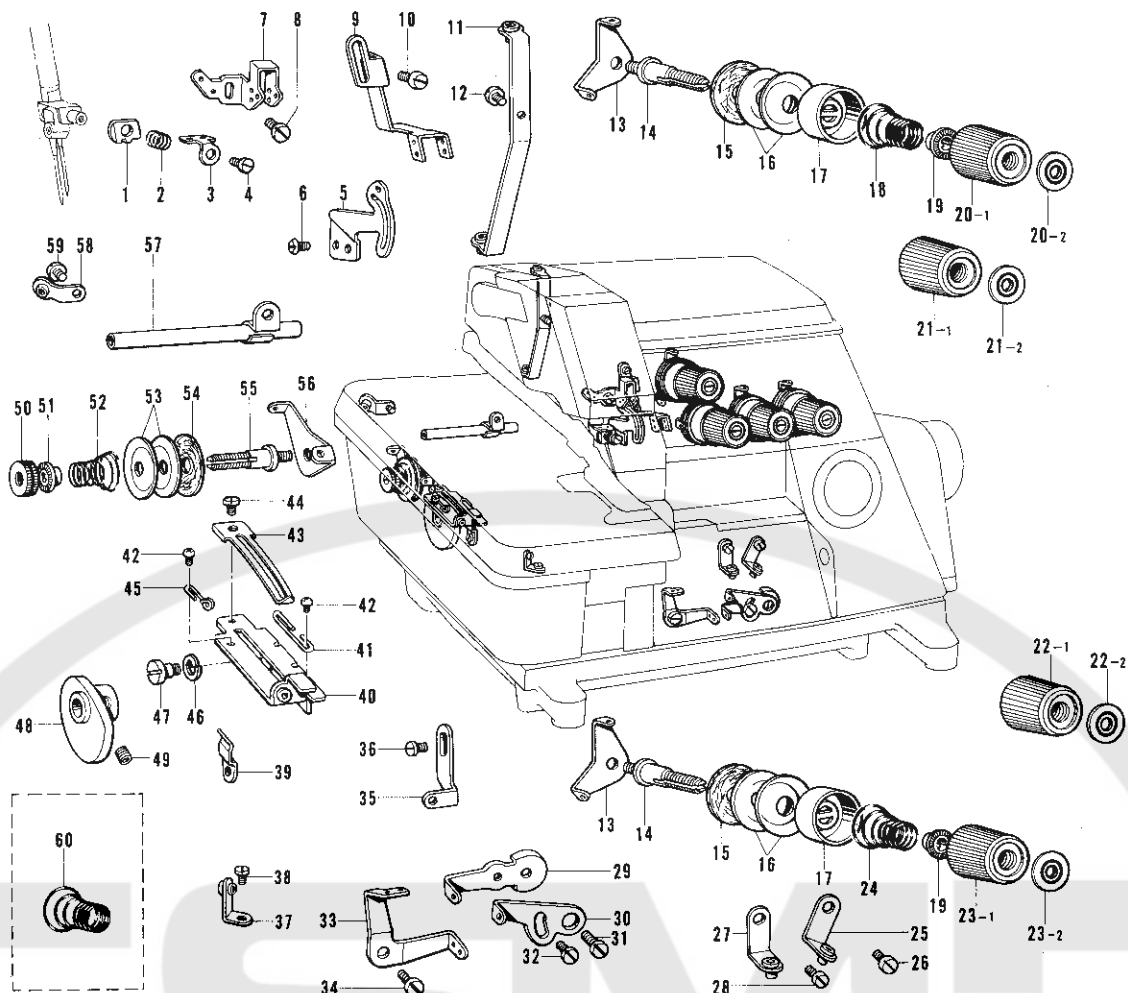
| Ref. No. | Name of Parts        | Q'ty | Parts No.   | Assembly No.                                                           | Ref. No. | Name of Parts          | Q'ty | Parts No.   | Assembly No.                                                              |
|----------|----------------------|------|-------------|------------------------------------------------------------------------|----------|------------------------|------|-------------|---------------------------------------------------------------------------|
| H-51- 1  | Sub-Presser Arm      | 1    |             | H-51<br>Presser Foot<br>Assembly<br>155109-0-01<br>(Ruffling)          | H-54- 7  | Nut                    | 1    | 140273-0-01 | H-54<br>Presser Foot<br>Assembly<br>155113-0-01<br>(Ruffling<br>W/piping) |
| H-51- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 |                                                                        | H-54- 8  | Screw 3.18             | 1    | 140272-0-01 |                                                                           |
| H-51- 3  | Spring               | 1    | 140993-0-01 |                                                                        | H-54- 9  | Presser Foot (Front)   | 1    | 144778-0-01 |                                                                           |
| H-51- 4  | Screw                | 1    | 140992-0-01 |                                                                        | H-54-10  | Screw 2.38             | 1    | 105288-0-01 |                                                                           |
| H-51- 5  | Presser Foot (Rear)  | 1    | 146880-0-01 |                                                                        | H-54-11  | Presser Foot (U)       | 1    | 144777-0-01 |                                                                           |
| H-51- 6  | Spring               | 1    | 140275-0-01 |                                                                        | H-54-12  | Screw 3.18 x 7         | 1    | 009660-7-12 |                                                                           |
| H-51- 7  | Nut                  | 1    | 140273-0-01 |                                                                        | H-54-13  | Presser Foot           | 1    |             | H-55<br>Presser Foot<br>Assembly<br>155114-0-01<br>(Ruffling<br>W/piping) |
| H-51- 8  | Screw 3.18           | 1    | 140272-0-01 |                                                                        | H-54-14  | Screw                  | 1    | 140270-0-01 |                                                                           |
| H-51- 9  | Presser Foot (Front) | 1    | 144778-0-01 |                                                                        | H-55- 1  | Sub-Presser Arm        | 1    |             |                                                                           |
| H-51-10  | Screw 2.38           | 1    | 105288-0-01 |                                                                        | H-55- 2  | Bolt 3.57 x 8          | 1    | 154965-0-01 |                                                                           |
| H-51-11  | Presser Foot (U)     | 1    | 144777-0-01 |                                                                        | H-55- 3  | Spring                 | 1    | 140993-0-01 |                                                                           |
| H-51-12  | Screw 3.18 x 7       | 1    | 009660-7-12 |                                                                        | H-55- 4  | Screw                  | 1    | 140992-0-01 |                                                                           |
| H-51-13  | Presser Foot         | 1    |             |                                                                        | H-55- 5  | Presser Foot (Rear)    | 1    | 147488-0-01 |                                                                           |
| H-51-14  | Screw                | 1    | 140270-0-01 |                                                                        | H-55- 6  | Spring                 | 1    | 140275-0-01 |                                                                           |
| H-52- 1  | Sub-Presser Arm      | 1    |             | H-52<br>Presser Foot<br>Assembly<br>155111-0-01<br>(Ruffling)          | H-55- 7  | Nut                    | 1    | 140273-0-01 |                                                                           |
| H-52- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 |                                                                        | H-55- 8  | Screw 3.18             | 1    | 140272-0-01 |                                                                           |
| H-52- 3  | Spring               | 1    | 140993-0-01 |                                                                        | H-55- 9  | Presser Foot (Front)   | 1    | 144778-0-01 |                                                                           |
| H-52- 4  | Screw                | 1    | 140992-0-01 |                                                                        | H-55-10  | Screw 2.38             | 1    | 105288-0-01 |                                                                           |
| H-52- 5  | Presser Foot (Rear)  | 1    | 140271-0-01 |                                                                        | H-55-11  | Presser Foot (U)       | 1    | 144777-0-01 |                                                                           |
| H-52- 6  | Spring               | 1    | 140275-0-01 |                                                                        | H-55-12  | Screw 3.18 x 7         | 1    | 009660-7-12 |                                                                           |
| H-52- 7  | Nut                  | 1    | 140273-0-01 |                                                                        | H-55-13  | Presser Foot           | 1    |             |                                                                           |
| H-52- 8  | Screw 3.18           | 1    | 140272-0-01 |                                                                        | H-55-14  | Screw                  | 1    | 140270-0-01 |                                                                           |
| H-52- 9  | Presser Foot (Front) | 1    | 144778-0-01 |                                                                        | H-56- 1  | Sub-Presser Arm        | 1    |             | H-56<br>Presser Foot<br>Assembly<br>155115-0-01<br>(Ruffling<br>W/piping) |
| H-52-10  | Screw 2.38           | 1    | 105288-0-01 |                                                                        | H-56- 2  | Bolt 3.57 x 8          | 1    | 154965-0-01 |                                                                           |
| H-52-11  | Presser Foot (U)     | 1    | 144777-0-01 |                                                                        | H-56- 3  | Spring                 | 1    | 140993-0-01 |                                                                           |
| H-52-12  | Screw 3.18 x 7       | 1    | 009660-7-12 |                                                                        | H-56- 4  | Screw                  | 1    | 140992-0-01 |                                                                           |
| H-52-13  | Presser Foot (E)     | 1    |             |                                                                        | H-56- 5  | Presser Foot (Rear)    | 1    | 147489-0-01 |                                                                           |
| H-52-14  | Screw                | 1    | 140270-0-01 |                                                                        | H-56- 6  | Spring                 | 1    | 140275-0-01 |                                                                           |
| H-53- 1  | Sub-Presser Arm      | 1    |             | H-53<br>Presser Foot<br>Assembly<br>155112-0-01<br>(Ruffling)          | H-56- 7  | Nut                    | 1    | 140273-0-01 |                                                                           |
| H-53- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 |                                                                        | H-56- 8  | Screw 3.18             | 1    | 140272-0-01 |                                                                           |
| H-53- 3  | Spring               | 1    | 140993-0-01 |                                                                        | H-56- 9  | Presser Foot (Front)   | 1    | 144778-0-01 |                                                                           |
| H-53- 4  | Screw                | 1    | 140992-0-01 |                                                                        | H-56-10  | Screw 2.38             | 1    | 105288-0-01 |                                                                           |
| H-53- 5  | Presser Foot (Rear)  | 1    | 140991-0-01 |                                                                        | H-56-11  | Presser Foot (U)       | 1    | 144777-0-01 |                                                                           |
| H-53- 6  | Spring               | 1    | 140275-0-01 |                                                                        | H-56-12  | Screw 3.18 x 7         | 1    | 009660-7-12 |                                                                           |
| H-53- 7  | Nut                  | 1    | 140273-0-01 |                                                                        | H-56-13  | Presser Foot           | 1    |             |                                                                           |
| H-53- 8  | Screw 3.18           | 1    | 140272-0-01 |                                                                        | H-56-14  | Screw                  | 1    | 140270-0-01 |                                                                           |
| H-53- 9  | Presser Foot (Front) | 1    | 144778-0-01 |                                                                        | H-57- 1  | Sub-Presser Arm        | 1    |             | H-57<br>Presser Foot<br>Assembly<br>155118-0-01<br>(Denim)                |
| H-53-10  | Screw 2.38           | 1    | 105288-0-01 |                                                                        | H-57- 2  | Bolt 3.57 x 8          | 1    | 154965-0-01 |                                                                           |
| H-53-11  | Presser Foot (U)     | 1    | 144777-0-01 |                                                                        | H-57- 3  | Presser Foot Supporter | 1    |             |                                                                           |
| H-53-12  | Screw 3.18 x 7       | 1    | 009660-7-12 |                                                                        | H-57- 4  | Screw 3.18             | 2    | 148015-0-01 |                                                                           |
| H-53-13  | Presser Foot (D5)    | 1    |             |                                                                        | H-57- 5  | Screw 3.18             | 1    | 148015-0-01 |                                                                           |
| H-53-14  | Screw                | 1    | 140270-0-01 |                                                                        | H-57- 6  | Presser Foot (Rear)    | 1    | 148019-0-01 |                                                                           |
| H-54- 1  | Sub-Presser Arm      | 1    |             | H-54 Presser<br>Foot Assembly<br>155113-0-01<br>(Ruffling<br>W/piping) | H-57- 7  | Presser Foot (Front)   | 1    | 148020-0-01 |                                                                           |
| H-54- 2  | Bolt 3.57 x 8        | 1    | 154965-0-01 |                                                                        | H-57- 8  | Washer                 | 1    | 025030-2-32 |                                                                           |
| H-54- 3  | Spring               | 1    | 140993-0-01 |                                                                        | H-57- 9  | Screw 3.18             | 1    | 009660-6-12 |                                                                           |
| H-54- 4  | Screw                | 1    | 140992-0-01 |                                                                        | H-57-10  | Presser Foot Supporter | 1    | 148017-0-01 |                                                                           |
| H-54- 5  | Presser Foot (Rear)  | 1    | 147787-0-01 |                                                                        | H-57-11  | Presser Foot           | 1    |             |                                                                           |
| H-54- 6  | Spring               | 1    | 140275-0-01 |                                                                        | H-58     | Spring Plate           | 1    | 154967-0-01 |                                                                           |

## J. Knives Mechanism



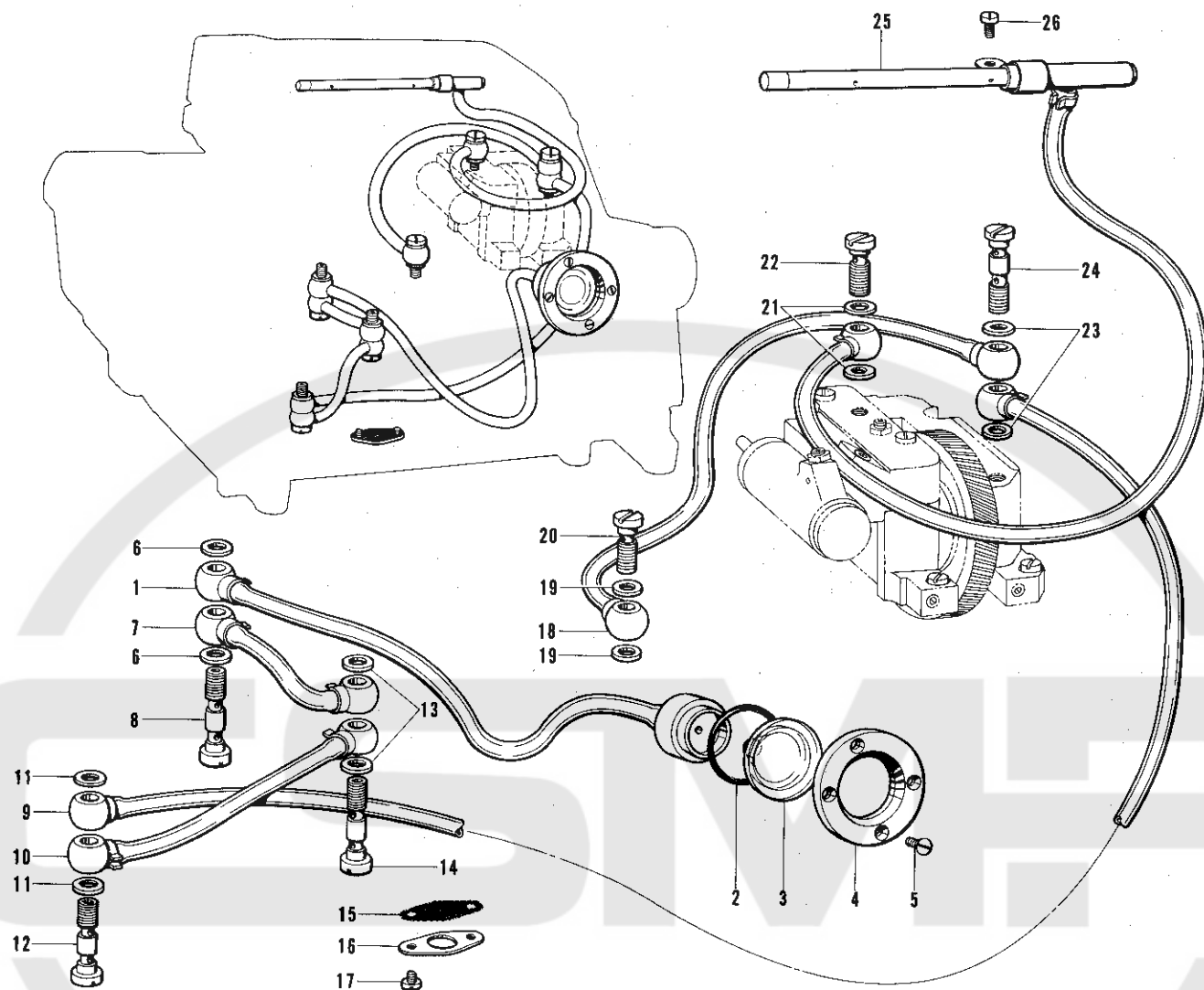
| Ref. No. | Name of Parts             | Q'ty | Parts No.   | Assembly No.                                                  | Ref. No. | Name of Parts             | Q'ty | Parts No.   | Assembly No. |
|----------|---------------------------|------|-------------|---------------------------------------------------------------|----------|---------------------------|------|-------------|--------------|
| J- 1     | Upper Knife Driving       | 1    | 155185-0-01 |                                                               | J-11     | Bolt 3.57                 | 1    | 144075-0-01 |              |
| J- 2     | Nut                       | 1    | 148281-0-01 |                                                               | J-12     | Lower Knife               | 1    | 155193-0-01 |              |
| J- 3     | Bushing (Left)            | 1    | 155186-0-00 |                                                               | J-13     | Lower Knife Presser Plate | 1    | 155194-0-01 |              |
| J- 4-1   | Set Collar                | 1    |             | J-4<br>Collar Assembly<br>155863-0-01                         | J-14     | Bolt 4.37                 | 1    | 117516-0-01 |              |
| J- 4-2   | Screw 5.95                | 2    | 152718-0-01 |                                                               | J-15     | Lower Knife Holder Guide  | 1    | 155195-0-01 |              |
| J- 5-1   | Upper Knife Driving Lever | 1    |             | *J-5<br>Upper Knife<br>Driving Rod<br>Assembly<br>155181-0-01 | J-16     | Screw 3.57 x 6            | 2    | 009670-6-12 |              |
| J- 5-2   | Bolt 6.35 x 16            | 1    | 149170-0-01 |                                                               | J-17     | Lower Knife Holder        | 1    | 155192-0-01 |              |
| J- 5-3   | Pin                       | 1    |             |                                                               | J-18     | Screw 6.35                | 1    | 102627-0-01 |              |
| J- 5-4   | Upper Knife Driving Rod   | 1    |             |                                                               | J-19     | Spring                    | 1    | 146584-0-01 |              |
| J- 5-5   | Screw 4.37 x 14           | 2    | 148425-0-01 |                                                               | J-20     | Oil Cap                   | 1    | 154923-0-01 |              |
| J- 5-6   | Screw 4.37                | 1    | 100366-0-01 |                                                               | J-21     | Upper Knife Holder        | 1    | 155190-0-01 |              |
| J- 6     | Wick 8 x 8 (44)           | 1    | 140317-0-00 |                                                               | J-22     | Upper Knife               | 1    | 148815-0-01 |              |
| J- 7     | Bushing (Right)           | 1    | 144117-0-00 |                                                               | J-23     | Upper Knife Presser       | 1    | 148343-0-01 |              |
| J- 8     | Upper Knife Holder        | 1    | 155188-0-01 |                                                               | J-24     | Upper Knife Presser Plate | 1    | 148344-0-01 |              |
| J- 9     | Screw 4.37                | 1    | 107407-0-03 |                                                               | J-25     | Screw 4.37                | 1    | 102424-0-03 |              |
| J-10     | Upper Knife               | 1    | 144074-0-00 |                                                               | J-26     | Screw 3.57 x 10           | 1    | 009671-0-14 |              |

## K. Threading



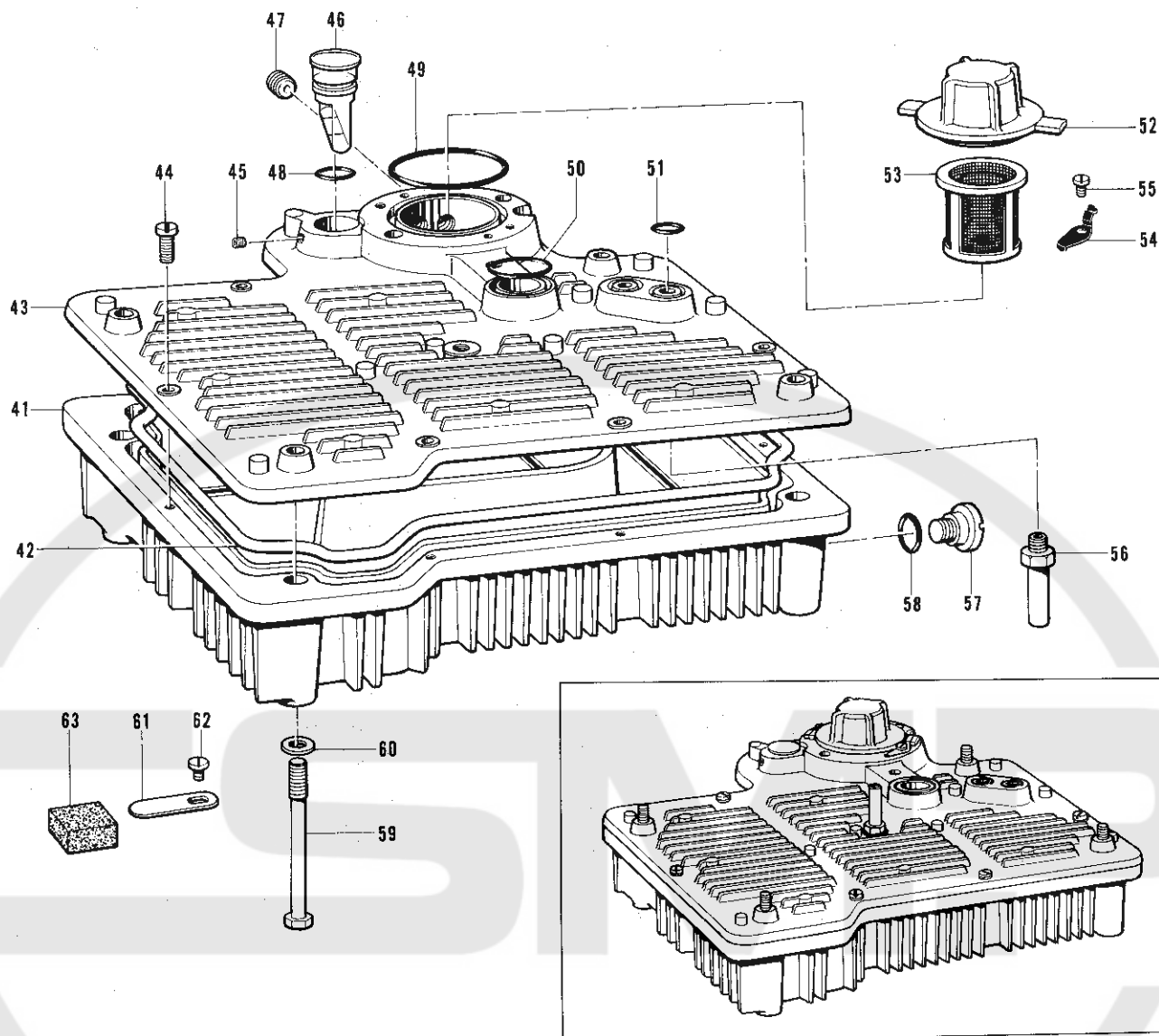
| Ref. No. | Name of Parts                      | Q'ty | Parts No.   | Assembly No.                                                       | Ref. No. | Name of Parts                        | Q'ty | Parts No.   | Assembly No. |
|----------|------------------------------------|------|-------------|--------------------------------------------------------------------|----------|--------------------------------------|------|-------------|--------------|
| K- 1     | Needle Thread Guard (A)            | 1    | 155309-0-01 |                                                                    | K-25     | Under Looper Thread Guide            | 1    | 146926-0-02 |              |
| K- 2     | Needle Thread Guard Spring         | 1    | 155310-0-01 |                                                                    | K-26     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
| K- 3     | Needle Thread Guide (C)            | 1    | 155307-0-01 |                                                                    | K-27     | Thread Guide                         | 1    | 146926-0-03 |              |
| K- 4     | Screw 2.38                         | 1    | 105288-0-01 |                                                                    | K-28     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
| K- 5     | Needle Thread Take-up              | 1    | 155306-0-01 |                                                                    | K-29     | Under Looper Thread Take-up          | 1    | 155311-0-01 |              |
| K- 6     | Screw 3.57 x 6                     | 2    | 001670-6-12 |                                                                    | K-30     | Over Looper Thread Take-up           | 1    | 155312-0-01 |              |
| K- 7     | Needle Thread Guide (A)            | 1    | 155305-0-01 |                                                                    | K-31     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
| K- 8     | Screw 3.57 x 6                     | 1    | 001670-6-12 |                                                                    | K-32     | Screw 3.57 x 4                       | 1    | 009670-4-12 |              |
| K- 9     | Needle Thread Guide (B)            | 1    | 155304-0-01 |                                                                    | K-33     | Looper Thread Take-up (L)            | 1    | 146654-0-01 |              |
| K-10     | Screw 3.57 x 6                     | 2    | 009670-6-12 |                                                                    | K-34     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
| K-11     | Thread Guide                       | 1    | 155314-0-01 |                                                                    | K-35     | Over Looper Thread Guide             | 1    | 155313-0-01 |              |
| K-12     | Screw 3.57 x 6                     | 1    | 009670-6-12 |                                                                    | K-36     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
| K-13     | Needle Thread Guide Plate          | 4    | 110813-0-01 |                                                                    | K-37     | Thread Guide                         | 1    | 146930-0-01 |              |
| K-14     | Looper Thread Tension Control Stud | 4    | 110820-0-01 |                                                                    | K-38     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
| K-15     | Felt                               | 4    | 110832-0-01 |                                                                    | K-39     | Spring                               | 1    | 155318-0-01 |              |
| K-16     | Tension Disc                       | 8    | 145446-0-01 |                                                                    | K-40     | Chain Stitch Base Plate Assembly     | 1    | 150808-0-01 |              |
| K-17     | Tension Disc Washer                | 4    | 144103-0-01 |                                                                    | K-41     | Thread Guide (R)                     | 1    | 146663-0-01 |              |
| K-18     | Spring                             | 2    | 144104-0-01 |                                                                    | K-42     | Screw 2.38 x 4                       | 2    | 001630-4-02 |              |
| K-19     | Tension Spring Washer              | 4    | 144105-0-00 |                                                                    | K-43     | Thread Handler                       | 1    | 150810-0-01 |              |
| K-20-1   | Thread Tension Adjusting Nut       | 1    | 149566-0-02 | K-20<br>Thread Tension<br>Adjusting Nut<br>Assembly<br>155696-0-03 | K-44     | Screw 3.57 x 4                       | 1    | 009670-4-12 |              |
| K-20-2   | Tension Indicating Plate           | 1    | 155697-0-03 |                                                                    | K-45     | Thread Guide (L)                     | 1    | 150811-0-01 |              |
| K-21-1   | Thread Tension Adjusting Nut       | 1    | 149566-0-02 |                                                                    | K-46     | Spring Washer                        | 1    | 028050-2-42 |              |
| K-21-2   | Tension Indicating Plate           | 1    | 155697-0-01 | K-21<br>Thread Tension<br>Adjusting Nut<br>Assembly<br>155696-0-01 | K-47     | Screw 4.37                           | 1    | 150812-0-01 |              |
| K-22-1   | Thread Tension Adjusting Nut       | 1    | 149566-0-02 |                                                                    | K-48     | Chain Stitch Looper Take-up          | 1    | 150807-0-01 |              |
| K-22-2   | Tension Indicating Plate           | 1    | 155697-0-02 |                                                                    | K-49     | Screw 4.37                           | 2    | 014680-4-22 |              |
| K-23-1   | Thread Tension Adjusting Nut       | 1    | 149566-0-02 | K-22<br>Thread Tension<br>Adjusting Nut<br>Assembly<br>155696-0-02 | K-50     | Upper Thread Tension Adjusting Screw | 1    | 151012-0-01 |              |
| K-23-2   | Tension Indicating Plate           | 1    | 155697-0-04 |                                                                    | K-51     | Tension Spring Washer                | 1    | 144105-0-00 |              |
| K-24     | Spring                             | 2    | 144110-0-01 |                                                                    | K-52     | Thread Tension Adjusting Spring      | 1    | 147149-0-01 |              |
|          |                                    |      |             | K-23<br>Thread Tension<br>Adjusting Nut<br>Assembly<br>155696-0-04 | K-53     | Tension Disc                         | 2    | 145446-0-01 |              |
|          |                                    |      |             |                                                                    | K-54     | Felt                                 | 1    | 110832-0-01 |              |
|          |                                    |      |             |                                                                    | K-55     | Thread Tension Control Stud          | 1    | 147148-0-01 |              |
|          |                                    |      |             |                                                                    | K-56     | Needle Thread Guide Plate            | 1    | 110813-0-01 |              |
|          |                                    |      |             |                                                                    | K-57     | Thread Guide Pipe                    | 1    | 155316-0-01 |              |
|          |                                    |      |             |                                                                    | K-58     | Chain Stitch Looper Thread Guide     | 1    | 151617-0-01 |              |
|          |                                    |      |             |                                                                    | K-59     | Screw 3.57 x 6                       | 1    | 009670-6-12 |              |
|          |                                    |      |             |                                                                    | K-60     | Spring                               | 2    | 148851-0-01 |              |

## L. Lubrication (1)



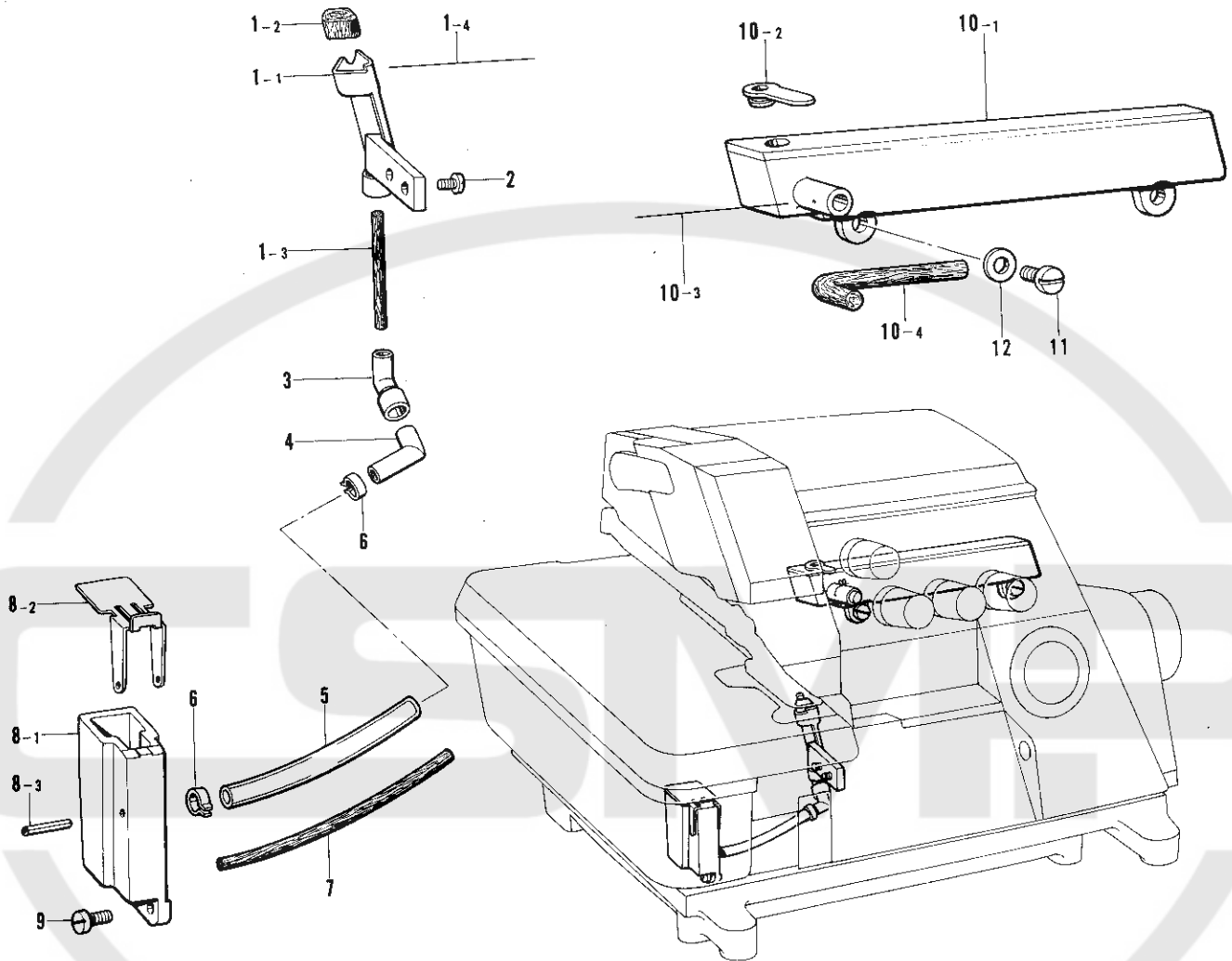
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|----------|--------------------|------|-------------|--------------|----------|-------------------|------|-------------|--------------|
| L- 1     | Pilot-Light Gauge  | 1    | 155286-0-01 |              | L-14     | Oil Feeding Pipe  | 1    | 112364-0-01 |              |
| L- 2     | "O" Ring           | 1    | 081022-0-70 |              | L-15     | Oil Filter        | 1    | 155294-0-00 |              |
| L- 3     | Pilot-Light Lens   | 1    | 155290-0-00 |              | L-16     | Oil Filter Flange | 1    | 155295-0-01 |              |
| L- 4     | Lens Presser Plate | 1    | 155291-0-01 |              | L-17     | Screw 3.57 x 5    | 2    | 009670-5-12 |              |
| L- 5     | Screw 3.57         | 4    | 102538-0-02 |              | L-18     | Tube Assembly     | 1    | 155292-0-01 |              |
| L- 6     | Packing            | 2    | 112348-0-01 |              | L-19     | Packing           | 2    | 112348-0-01 |              |
| L- 7     | Vinyl Tube         | 1    | 155284-0-01 |              | L-20     | Oil Feeding Pipe  | 1    | 112359-0-01 |              |
| L- 8     | Oil Feeding Pipe   | 1    | 112364-0-01 |              | L-21     | Packing           | 2    | 112348-0-01 |              |
| L- 9     | Vinyl Tube         | 1    | 156469-0-01 |              | L-22     | Oil Feeding Pipe  | 1    | 112359-0-01 |              |
| L-10     | Vinyl Tube         | 1    | 155282-0-01 |              | L-23     | Packing           | 2    | 112348-0-01 |              |
| L-11     | Packing            | 2    | 112348-0-01 |              | L-24     | Oil Feeding Pipe  | 1    | 112364-0-01 |              |
| L-12     | Oil Feeding Pipe   | 1    | 112364-0-01 |              | L-25     | Main Oil Pipe     | 1    | 156460-0-01 |              |
| L-13     | Packing            | 2    | 112348-0-01 |              | L-26     | Screw 3.57 x 6    | 1    | 009670-6-12 |              |

## L. Lubrication (2)



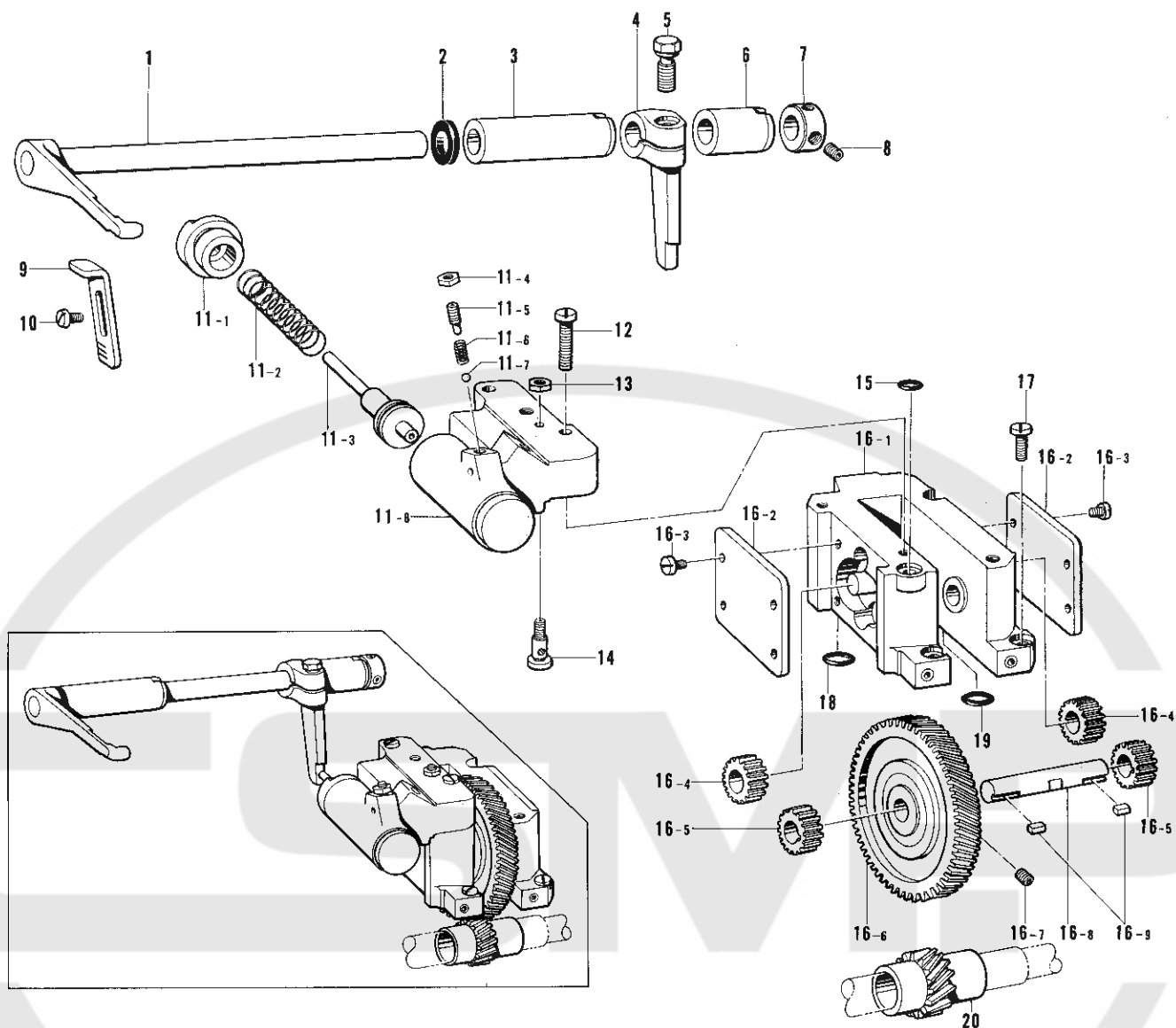
| Ref. No. | Name of Parts   | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts   | Q'ty | Parts No.   | Assembly No. |
|----------|-----------------|------|-------------|--------------|----------|-----------------|------|-------------|--------------|
| L-41     | Oil Tank        | 1    | 155296-0-00 |              | L-53     | Oil Filter      | 1    | 155299-0-00 |              |
| L-42     | Packing         | 1    | 155297-0-00 |              | L-54     | Spring          | 2    | 144874-0-01 |              |
| L-43     | Oil Tank Cover  | 1    | 155298-0-00 |              | L-55     | Screw 3.57 x 6  | 2    | 009670-6-12 |              |
| L-44     | Screw 4.37 x 12 | 7    | 009681-2-12 |              | L-56     | Pipe            | 3    | 155302-0-01 |              |
| L-45     | Screw 7.94      | 2    | 014821-0-22 |              | L-57     | Stud Screw 9.52 | 1    | 110641-0-01 |              |
| L-46     | Oil Gauge       | 1    | 155301-0-01 |              | L-58     | Packing         | 1    | 109203-0-01 |              |
| L-47     | Screw 3.57      | 1    | 148294-0-01 |              | L-59     | Bolt 6 x 65     | 4    | 155303-0-01 |              |
| L-48     | "O" Ring        | 1    | 081016-0-70 |              | L-60     | Washer          | 4    | 118735-0-02 |              |
| L-49     | "O" Ring        | 1    | 081044-0-70 |              | L-61     | Plate Spring    | 2    | 152936-0-01 |              |
| L-50     | "O" Ring        | 1    | 081022-0-70 |              | L-62     | Screw 3.57 x 6  | 2    | 009670-6-12 |              |
| L-51     | "O" Ring        | 2    | 081011-0-70 |              | L-63     | Magnet          | 2    | 112525-0-00 |              |
| L-52     | Oil Tank Cap    | 1    | 155300-0-00 |              |          |                 |      |             |              |

## M. Needle Cooler



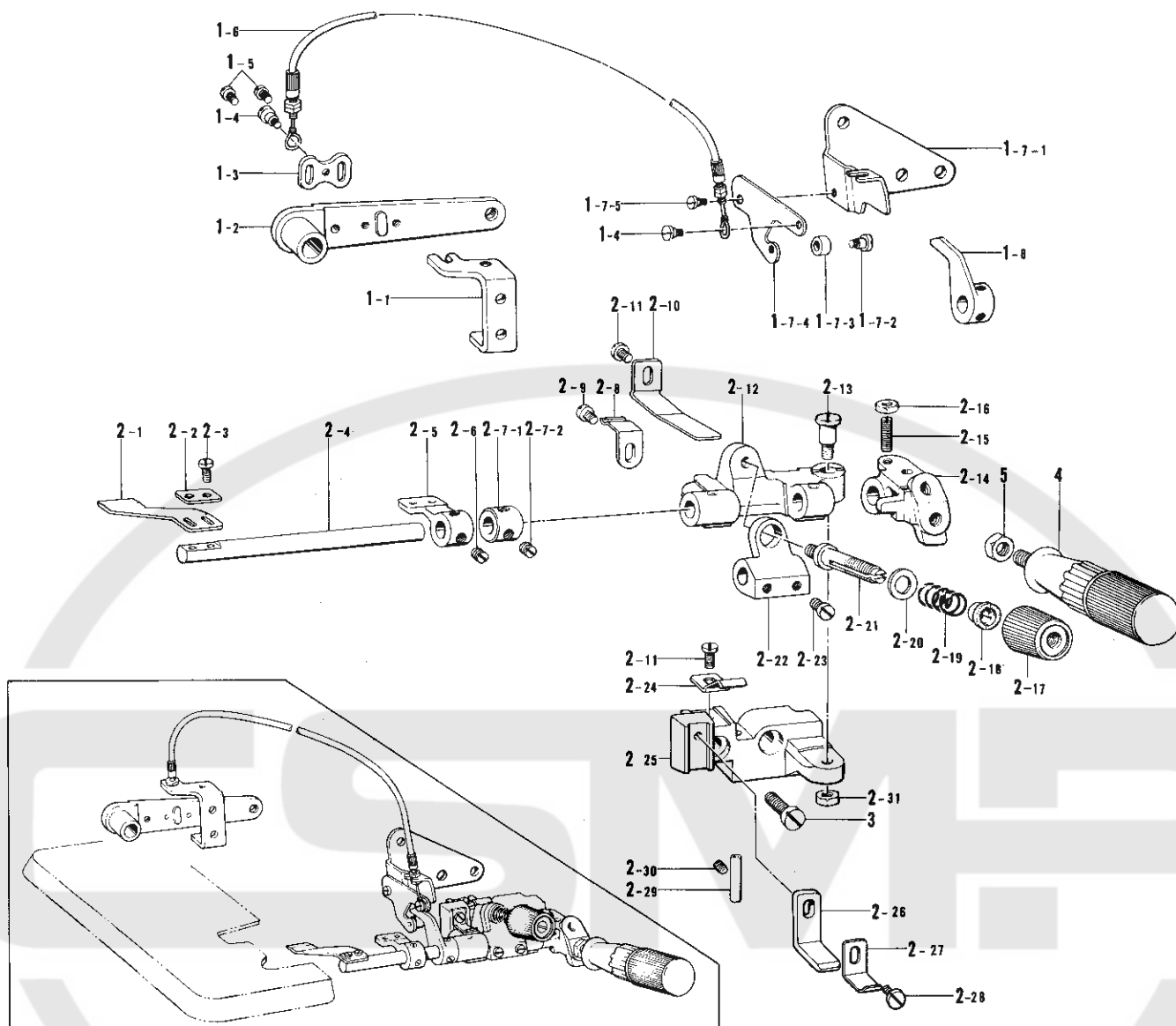
| Ref. No. | Name of Parts  | Q'ty | Parts No.   | Assembly No.                                  | Ref. No. | Name of Parts                   | Q'ty | Parts No.   | Assembly No.                                            |
|----------|----------------|------|-------------|-----------------------------------------------|----------|---------------------------------|------|-------------|---------------------------------------------------------|
| M- 1-1   | Felt Supporter | 1    | 154936-0-00 | M-1<br>Felt Holder<br>Assembly<br>154935-0-01 | M- 8-1   | Needle Cooler Tank              | 1    | 154945-0-01 | M-8<br>Needle Cooler<br>Assembly<br>154943-0-01         |
| M- 1-2   | Felt (S)       | 1    | 151475-0-00 |                                               | M- 8-2   | Needle Cooler Tank Cover        | 1    |             |                                                         |
| M- 1-3   | Felt           | 1    | 154932-0-00 |                                               | M- 8-3   | Pin                             | 1    |             |                                                         |
| M- 1-4   | Steel Wire     | 1    | 147738-0-00 |                                               | M- 9     | Screw 3.57 x 10                 | 2    |             |                                                         |
| M- 2     | Screw 3.57     | 2    | 100257-0-10 |                                               | M-10-1   | Needle Thread Cooler Tank       | 1    | 154928-0-00 | M-10<br>Needle Thread<br>Cooler Assembly<br>154924-0-01 |
| M- 3     | Pipe Joint (A) | 1    | 154939-0-00 |                                               | M-10-2   | Needle Thread Cooler Tank Cover | 1    |             |                                                         |
| M- 4     | Pipe Joint (B) | 1    | 154940-0-00 |                                               | M-10-3   | Steel Wire                      | 1    |             |                                                         |
| M- 5     | Vinyl Tube     | 1    | 154942-0-00 |                                               | M-10-4   | Felt                            | 1    |             |                                                         |
| M- 6     | Stop Ring      | 2    | 147942-0-01 |                                               | M-11     | Screw 4.37 x 7                  | 2    | 009680-7-12 |                                                         |
| M- 7     | Felt           | 1    | 154941-0-00 |                                               | M-12     | Washer                          | 2    | 110735-0-02 |                                                         |

## N. Auto Presser Mechanism



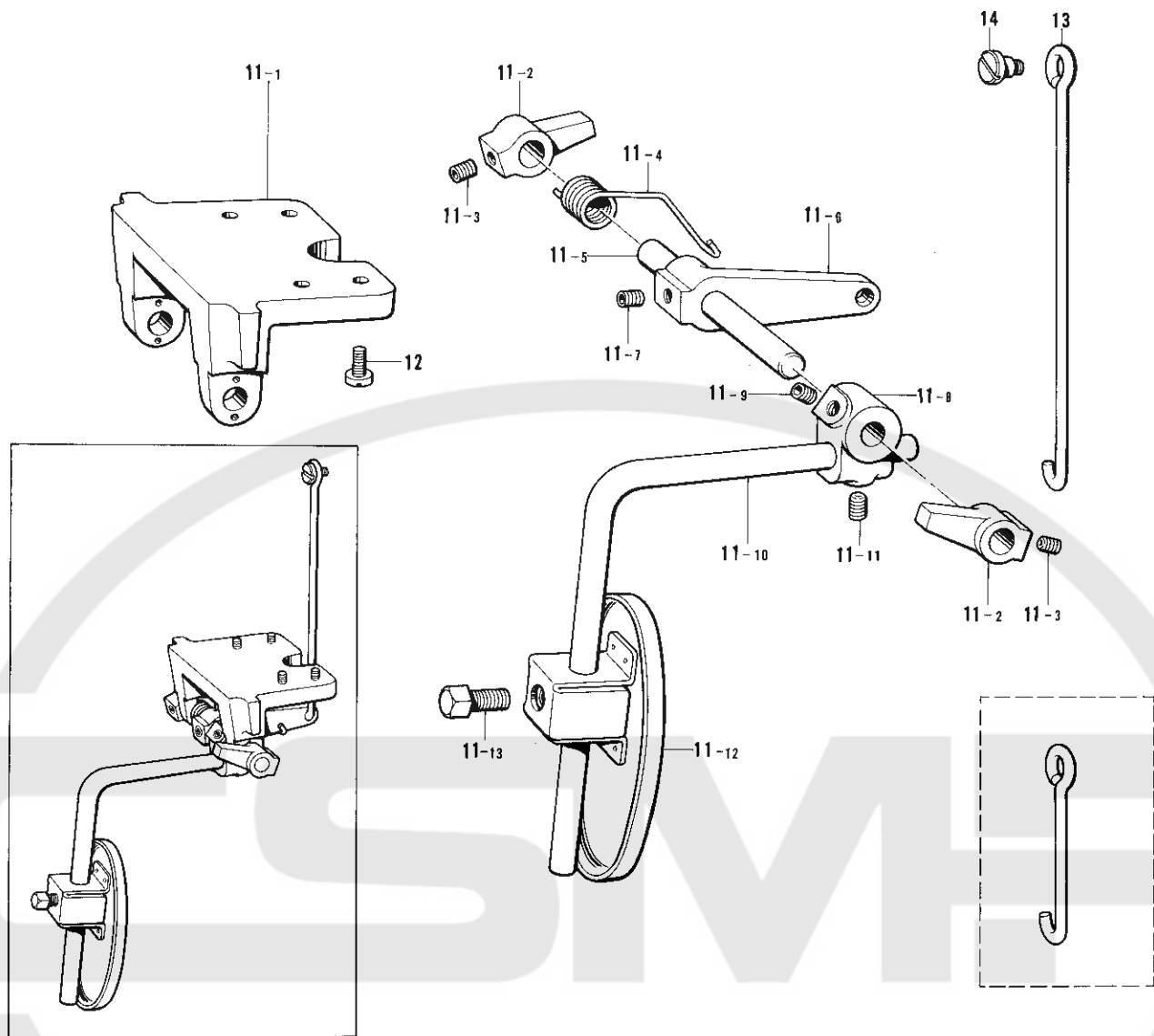
| Ref. No. | Name of Parts                 | Q'ty | Parts No.   | Assembly No.                                        | Ref. No. | Name of Parts   | Q'ty | Parts No.   | Assembly No. |
|----------|-------------------------------|------|-------------|-----------------------------------------------------|----------|-----------------|------|-------------|--------------|
| N- 1     | Auto Presser Arm              | 1    | 155223-0-01 |                                                     | N-12     | Screw 4.37 x 18 | 2    | 009681-8-12 |              |
| N- 2     | Seal                          | 1    | 155539-0-00 |                                                     | N-13     | Nut             | 1    | 021670-2-02 |              |
| N- 3     | Bushing (L)                   | 1    | 155219-0-00 |                                                     | N-14     | Oil Adjustor    | 1    | 156459-0-01 |              |
| N- 4     | Auto Presser Lever            | 1    | 155222-0-01 |                                                     | N-15     | "O" Ring        | 1    | 081006-0-70 |              |
| N- 5     | Bolt 6.35 x 16                | 1    | 149170-0-01 |                                                     | N-16-1   | Pump Case       | 1    |             |              |
| N- 6     | Bushing (R)                   | 1    | 155220-0-00 |                                                     | N-16-2   | Pump Cover      | 2    | 156430-0-01 |              |
| N- 7     | Set Collar                    | 1    | 110197-0-01 |                                                     | N-16-3   | Screw 3.57 x 6  | 8    | 009670-6-12 |              |
| N- 8     | Screw 4.37                    | 2    | 014680-4-22 |                                                     | N-16-4   | Pump Gear F     | 2    | 156425-0-00 |              |
| N- 9     | Auto Presser Arm Stopper      | 1    | 155224-0-01 |                                                     | N-16-5   | Pump Gear D     | 2    | 156426-0-00 |              |
| N-10     | Screw 3.57 x 6                | 2    | 001670-6-12 |                                                     | N-16-6   | Gear L          | 1    | 156428-0-00 |              |
| N-11-1   | Auto Presser Cylinder Cover B | 1    | 156438-0-00 |                                                     | N-16-7   | Screw 4.37      | 2    | 014680-6-22 |              |
| N-11-2   | Spring                        | 1    | 155218-0-01 |                                                     | N-16-8   | Gear L Shaft    | 1    | 156427-0-01 |              |
| N-11-3   | Piston                        | 1    | 155217-0-01 | N-11                                                | N-16-9   | Key             | 2    | 156429-0-01 |              |
| N-11-4   | Nut                           | 1    | 021670-2-02 | Auto Presser<br>Cylinder<br>Assembly<br>156436-0-01 | N-17     | Screw 4.37 x 12 | 4    | 009681-2-12 |              |
| N-11-5   | Adjusting Screw               | 1    | 156183-0-01 |                                                     | N-18     | "O" Ring        | 2    | 081008-0-70 |              |
| N-11-6   | Spring                        | 1    | 120833-0-01 |                                                     | N-19     | "O" Ring        | 2    | 081008-0-70 |              |
| N-11-7   | Steel Ball                    | 1    | 071023-8-50 |                                                     | N-20     | Gear S          | 1    | 156432-0-01 |              |
| N-11-8   | Auto Presser Cylinder Body    | 1    |             |                                                     |          |                 |      |             |              |

## P. Ruffler Interlocking Parts Assembly and Ruffling Attachment Assembly (1)



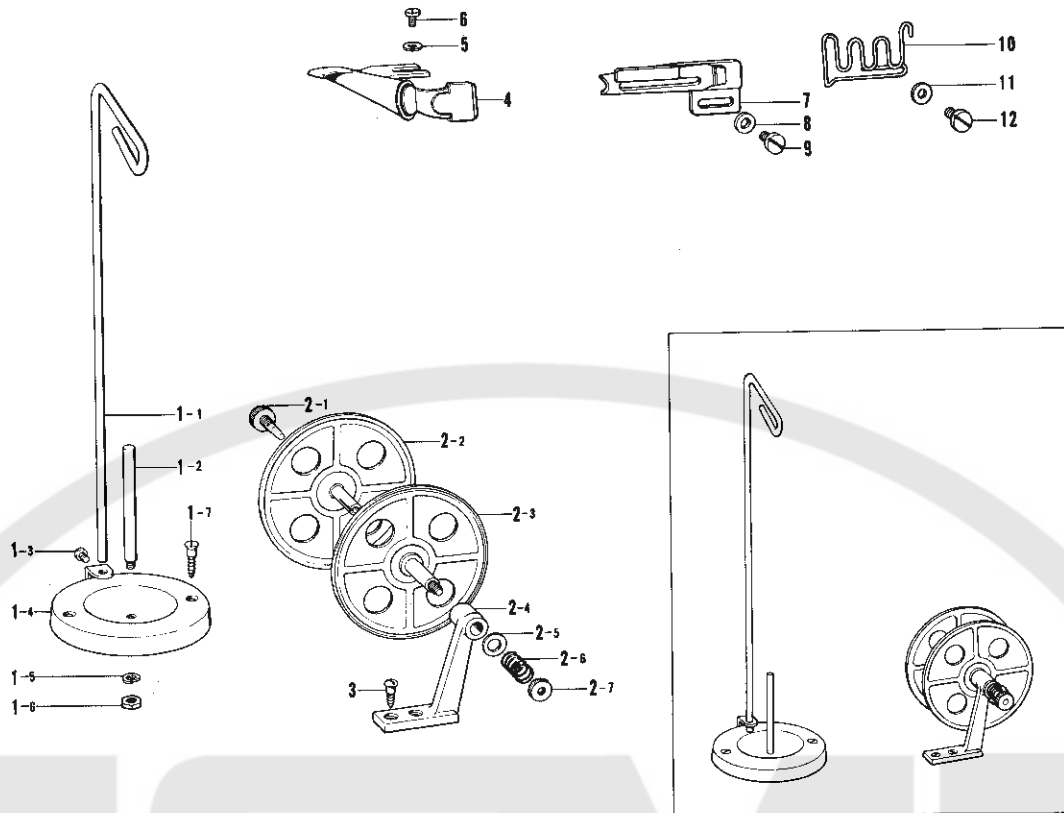
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|----------|-----------------------------------|------|-------------|--------------------------------------------------------------------|----------|------------------------------------|------|-------------|----------------------------------------------------------|
| P- 1-1   | Lever Adjuster Plate              | 1    | 147454-0-01 | P-1<br>Ruffler<br>Interlocking<br>Parts Assembly<br>155547-0-02    | P- 2-11  | Screw 4.37 x 6                     | 2    | 009680-6-12 | P-2<br>Ruffling<br>Attachment<br>Assembly<br>146587-1-02 |
| P- 1-2   | Presser Foot Lifter Lever         | 1    | 148369-1-01 |                                                                    | P- 2-12  | Bracket for Ruffling Blade         | 1    | 146588-0-01 |                                                          |
| P- 1-3   | Wire Plate                        | 1    | 147672-0-01 |                                                                    | P- 2-13  | Stud Screw 5.95                    | 1    | 147933-0-01 |                                                          |
| P- 1-4   | Screw                             | 2    | 141514-0-01 |                                                                    | P- 2-14  | Handle Fixing Plate                | 1    | 145810-0-01 |                                                          |
| P- 1-5   | Screw 3.57 x 6                    | 2    | 009670-6-12 |                                                                    | P- 2-15  | Screw 4.37                         | 1    | 110230-0-01 |                                                          |
| P- 1-6   | Flexible Wire Assembly            | 1    | 148391-0-01 | P-1-7<br>Ruffling Plate<br>Lifter Lever<br>Assembly<br>155329-0-01 | P- 2-16  | Nut 4.37                           | 1    | 105234-0-03 |                                                          |
| P- 1-7-1 | Presser Foot Lifter Lever Support | 1    | 155330-0-01 |                                                                    | P- 2-17  | Thread Tension Adjusting Nut       | 1    | 149566-0-02 |                                                          |
| P- 1-7-2 | Stud Screw 3.18                   | 1    | 112301-0-01 |                                                                    | P- 2-18  | Tension Spring Washer              | 1    | 144105-0-00 |                                                          |
| P- 1-7-3 | Roller                            | 1    | 148390-0-01 |                                                                    | P- 2-19  | Spring                             | 1    | 144788-0-01 |                                                          |
| P- 1-7-4 | Ruffling Plate Lifter Lever       | 1    | 148388-0-01 |                                                                    | P- 2-20  | Washer                             | 1    | 025770-2-32 |                                                          |
| P- 1-7-5 | Screw                             | 1    | 141514-0-01 | P-2<br>Ruffling<br>Attachment<br>Assembly<br>146587-1-02           | P- 2-21  | Looper Thread Tension Control Stud | 1    | 110820-0-01 |                                                          |
| P- 1-8   | Ruffling Plate Lifter             | 1    | 148387-0-01 |                                                                    | P- 2-22  | Spring Base                        | 1    | 146590-0-01 |                                                          |
| P- 2-1   | Ruffling Blade                    | 1    | 144783-0-01 |                                                                    | P- 2-23  | Screw 5.95                         | 2    | 105163-0-01 |                                                          |
| P- 2-2   | Washer                            | 1    | 144784-0-01 |                                                                    | P- 2-24  | Spring Plate                       | 1    | 145808-0-01 |                                                          |
| P- 2-3   | Screw 3.18 x 7                    | 2    | 009660-7-12 |                                                                    | P- 2-25  | Ruffling Base                      | 1    |             |                                                          |
| P- 2-4   | Ruffling Blade Base Shaft         | 1    | 145803-0-01 | P-2-7<br>Set Collar<br>Assembly<br>181995-0-02                     | P- 2-26  | Ruffling Blade Guide Plate         | 1    | 154795-0-01 |                                                          |
| P- 2-5   | Wrapper Base                      | 1    | 146589-0-01 |                                                                    | P- 2-27  | Ruffling Blade Guide               | 1    | 145807-0-01 |                                                          |
| P- 2-6   | Screw 6.35                        | 2    | 101706-0-01 |                                                                    | P- 2-28  | Screw 4.37 x 8                     | 1    | 009680-8-12 |                                                          |
| P- 2-7-1 | Set Collar                        | 1    |             |                                                                    | P- 2-29  | Thread Guide Pipe                  | 1    | 146592-0-01 |                                                          |
| P- 2-7-2 | Screw 6.35                        | 2    | 101706-0-01 |                                                                    | P- 2-30  | Screw 3.57                         | 1    | 013679-4-12 |                                                          |
| P- 2-8   | Spring                            | 1    | 144764-0-01 | P-2-9<br>Screw 3.57 x 5                                            | P- 2-31  | Nut                                | 1    | 150553-0-02 |                                                          |
| P- 2-9   | Screw 3.57 x 5                    | 1    | 001670-5-12 |                                                                    | P- 3     | Screw 6.35 x 18                    | 2    | 009781-8-12 |                                                          |
| P- 2-10  | Spring Plate                      | 1    | 145811-0-01 |                                                                    | P- 4     | Handle                             | 1    | 145809-0-01 |                                                          |
|          |                                   |      |             |                                                                    | P- 5     | Nut 6.35                           | 1    | 150556-0-02 |                                                          |

## P. Differential Adjuster Assembly (2)



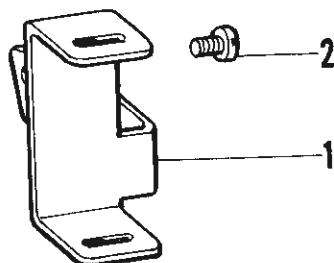
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|----------|---------------------------|------|-------------|-----------------------------------------------------------------|----------|-----------------------|------|-------------|-----------------------------------------------------------------|
| P-11- 1  | Knee Lifter Shaft Bracket | 1    | 155197-0-01 | P-11<br>Knee Lifter<br>Shaft Bracket<br>Assembly<br>155196-0-01 | P-11- 9  | Screw 6.35            | 1    | 014780-6-22 | P-11<br>Knee Lifter<br>Shaft Bracket<br>Assembly<br>155196-0-01 |
| P-11- 2  | Collar                    | 2    | 155203-0-01 |                                                                 | P-11-10  | Knee Lifter Bar (S)   | 1    | 148797-0-01 |                                                                 |
| P-11- 3  | Screw 6.35                | 2    | 014780-6-22 |                                                                 | P-11-11  | Screw 6.35            | 1    | 014780-6-22 |                                                                 |
| P-11- 4  | Spring                    | 1    | 155202-0-01 |                                                                 | P-11-12  | Knee Lifter Plate (L) | 1    | 148798-0-01 |                                                                 |
| P-11- 5  | Knee Lifter Shaft         | 1    | 155198-0-01 |                                                                 | P-11-13  | Bolt 7.94             | 1    | 100463-0-01 |                                                                 |
| P-11- 6  | Knee Lifter Lever         | 1    | 155201-0-01 |                                                                 | P-12     | Screw 4.37 x 10       | 4    | 009681-0-12 |                                                                 |
| P-11- 7  | Screw 6.35                | 1    | 014780-6-22 |                                                                 | P-13     | Connecting Bar        | 1    | 155205-0-01 |                                                                 |
| P-11- 8  | Knee Lifter Bracket       | 1    | 155199-0-01 |                                                                 | P-14     | Stud Screw 4.76       | 1    | 146594-0-01 |                                                                 |

## R. Wrapper and Piping Parts



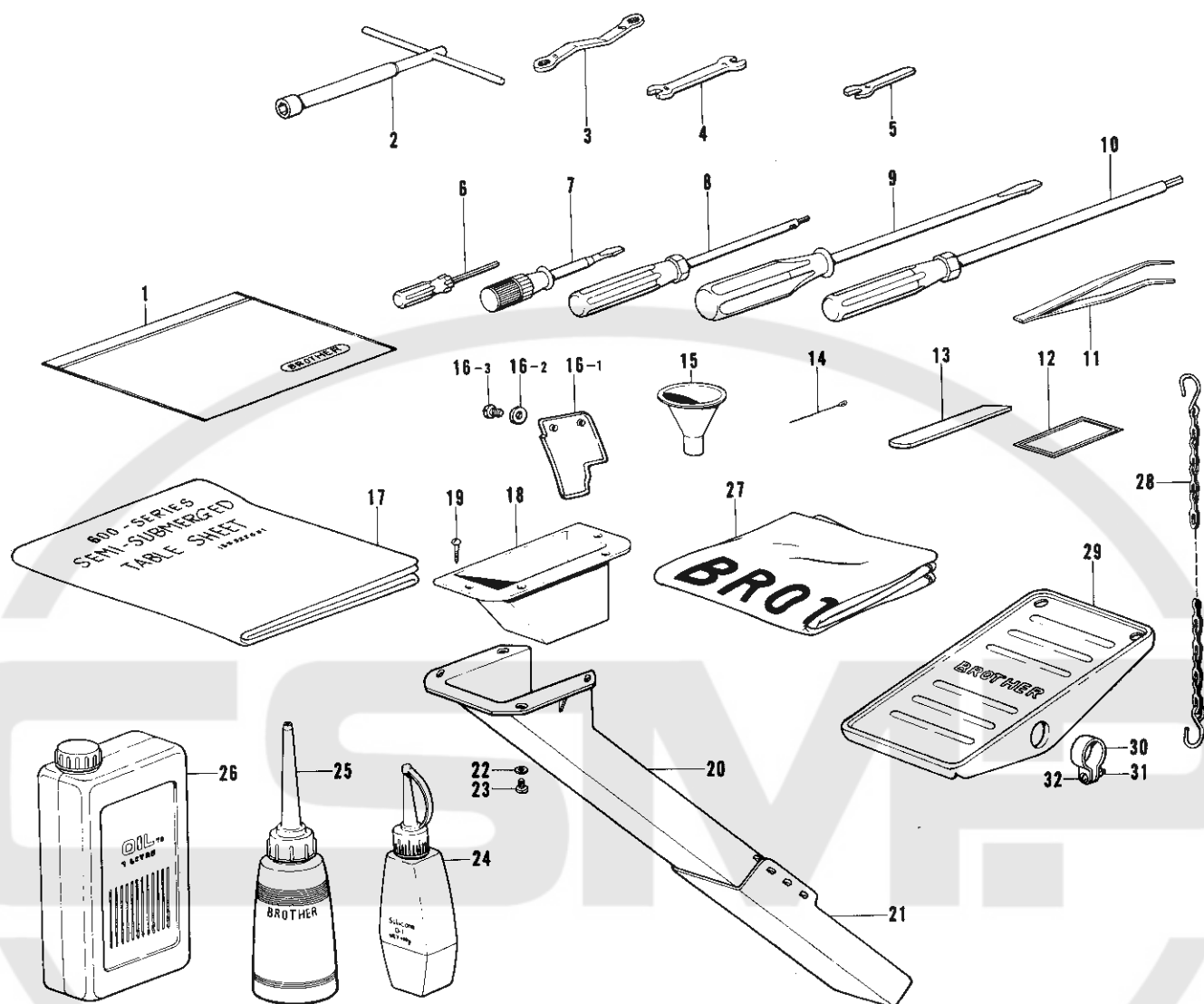
| Ref. No. | Name of Parts         | Q'ty | Parts No.   | Assembly No.                                   | Ref. No. | Name of Parts       | Q'ty | Parts No.   | Assembly No.                               |
|----------|-----------------------|------|-------------|------------------------------------------------|----------|---------------------|------|-------------|--------------------------------------------|
| R- 1-1   | Thread Guide Stud     | 1    |             | R-1<br>Cotton Stand<br>Assembly<br>181031-0-01 | R- 2-6   | Spring              | 1    | 108495-0-01 | R-2 Tape<br>Winder Assembly<br>143767-0-02 |
| R- 1-2   | Spool Stud            | 1    | 100444-0-02 |                                                | R- 2-7   | Tension Control Nut | 1    | 100136-0-01 |                                            |
| R- 1-3   | Screw 3.18            | 1    | 100080-0-02 |                                                | R- 3     | Screw 4.5 x 20      | 2    | 101118-0-01 |                                            |
| R- 1-4   | Spool Disc            | 1    |             |                                                | R- 4     | Wrapper Assembly    | 1    | 147440-0-00 |                                            |
| R- 1-5   | Spring Washer         | 1    | 028050-2-42 |                                                | R- 5     | Washer              | 2    | 110735-0-02 |                                            |
| R- 1-6   | Nut                   | 1    | 110161-0-03 |                                                | R- 6     | Screw 4.37 x 6      | 2    | 009680-6-12 |                                            |
| R- 1-7   | Screw 4.5 x 32        | 2    | 100447-0-01 |                                                | R- 7     | Wrapper Assembly    | 1    | 147373-0-00 |                                            |
| R- 2-1   | Screw                 | 1    | 143980-0-01 | R-2<br>Tape Winder<br>Assembly<br>143767-0-02  | R- 8     | Washer              | 2    | 025350-3-32 |                                            |
| R- 2-2   | Tape Winder Wheel (L) | 1    |             |                                                | R- 9     | Screw 3.57 x 5      | 2    | 009670-5-12 |                                            |
| R- 2-3   | Tape Winder Wheel (R) | 1    |             |                                                | R-10     | Tape Guide          | 1    | 147377-0-01 |                                            |
| R- 2-4   | Tape Winder Bracket   | 1    |             |                                                | R-11     | Washer              | 2    | 025350-3-32 |                                            |
| R- 2-5   | Washer                | 1    | 108494-0-01 |                                                | R-12     | Screw 3.57 x 5      | 2    | 009670-5-12 |                                            |

## Q. Taping



| Ref. No. | Name of Parts    | Q'ty | Parts No.   | Assembly No. |
|----------|------------------|------|-------------|--------------|
| Q- 1     | Tape Guide       | 1    | 155327-0-01 |              |
| Q- 2     | Screw 3.18 x 4.5 | 2    | 009669-4-12 |              |

## Z. Accessories (1)



| Ref. No. | Name of Parts           | Q'ty | Parts No.   | Assembly No.                  | Ref. No. | Name of Parts   | Q'ty | Parts No.   | Assembly No. |
|----------|-------------------------|------|-------------|-------------------------------|----------|-----------------|------|-------------|--------------|
| Z- 1     | Vinyl Bag               |      | 122991-0-01 |                               | Z-17     | Table Sheet     |      | 155322-0-01 |              |
| Z- 2     | Wrench                  |      | 140342-0-01 |                               | Z-18     | Duster Drop     |      | 148430-0-01 |              |
| Z- 3     | Wrench 8 x 9            |      | 105343-0-01 |                               | Z-19     | Screw 3.1 x 13  |      | 031311-3-02 |              |
| Z- 4     | Spanner 6 x 7           |      | 107779-0-01 |                               | Z-20     | Duster Shoot L  |      | 148431-0-01 |              |
| Z- 5     | Spanner 4               |      | 155320-0-01 |                               | Z-21     | Duster Shoot S  |      | 148432-0-01 |              |
| Z- 6     | Screw Driver 1.6        |      | 144124-0-01 |                               | Z-22     | Washer          |      | 025680-2-32 |              |
| Z- 7     | Screw Driver 3.4 x 70   |      | 118837-0-01 |                               | Z-23     | Screw 4.37 x 10 |      | 009681-0-12 |              |
| Z- 8     | Driver Wrench 2         |      | 146700-0-01 |                               | Z-24     | Silicone Oil    |      | 142343-0-01 |              |
| Z- 9     | Screw Driver            |      | 101572-1-01 |                               | Z-25     | Oiler           |      | 114483-0-01 |              |
| Z-10     | Screw Driver 3          |      | 149173-0-01 |                               | Z-26     | Oil Tank        |      | 145277-1-04 |              |
| Z-11     | Tweezers                |      | 117466-0-00 |                               | Z-27     | Head Cover      |      | 144225-0-01 |              |
| Z-12     | Needle DC x 27 Assembly |      | 151474-4-   |                               | Z-28     | Chain Assembly  |      | 142262-0-01 |              |
| Z-13     | Lower                   |      | 155193-0-01 |                               | Z-29     | Treadle Pedal   |      | 147893-0-01 |              |
| Z-14     | Threader                |      | 142125-0-00 |                               | Z-30     | Pedal Stopper   |      | 116016-0-01 |              |
| Z-15     | Funnel                  |      | 140759-0-00 |                               | Z-31     | Nut 4           |      | 021400-1-06 |              |
| Z-16-1   | Eye Guard               |      |             | Z-16<br>Eye Guard<br>Assembly | Z-32     | Screw 4 x 14    |      | 001401-4-06 |              |
| Z-16-2   | Washer                  |      | 025030-1-32 |                               |          |                 |      |             |              |
| Z-16-3   | Screw 3.18 x 5          |      | 009660-5-12 | 156022-0-01                   |          |                 |      |             |              |

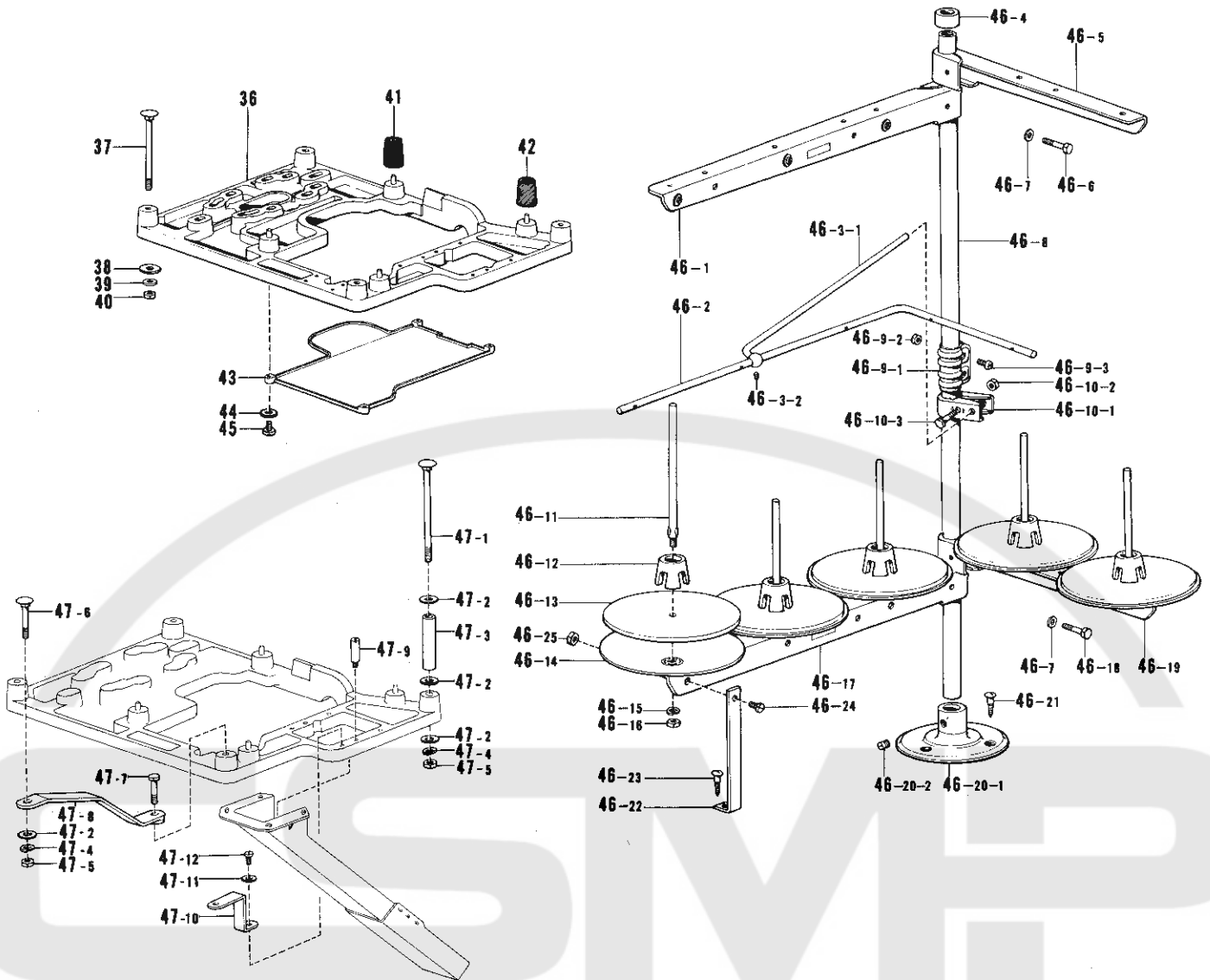
\*The details of included accessories are subject to change.

\*Les détails des accessoires inclus sont sujets à des changements.

\*Änderungen in der Aufstellung der mitgelieferten Zubehöre sind vorbehalten.

\*Los detalles de los accesorios incluidos pueden variar.

## Z. Machine Base Plate and Cotton Stand Assembly (2)



| Ref. No.  | Name of Parts            | Q'ty | Parts No.   | Assembly No.                                              | Ref. No.  | Name of Parts                | Q'ty | Parts No.   | Assembly No.                                                     |
|-----------|--------------------------|------|-------------|-----------------------------------------------------------|-----------|------------------------------|------|-------------|------------------------------------------------------------------|
| Z-36      | Machine Base Plate       |      | 155321-0-00 |                                                           | Z-46-13   | Spool Mat                    |      | 150182-0-00 | Z-46<br>Cotton Stand<br>Assembly<br>150162-0-01                  |
| Z-37      | Bolt 8 x 85              |      | 210973-0-01 |                                                           | Z-46-14   | Spool Stand Base             |      | 150180-0-00 |                                                                  |
| Z-38      | Washer 8                 |      | 025080-2-36 |                                                           | Z-46-15   | Spring Washer 2-5            |      | 028050-2-43 |                                                                  |
| Z-39      | Spring Washer 2-8        |      | 028080-2-42 |                                                           | Z-46-16   | Nut 5                        |      | 021500-1-03 |                                                                  |
| Z-40      | Nut                      |      | 021080-1-06 |                                                           | Z-46-17   | Spool Holder Assembly        |      | 150175-0-01 |                                                                  |
| Z-41      | Cushion                  |      | 147919-0-01 |                                                           | Z-46-18   | Bolt 5 x 28                  |      | 017502-8-03 | Z-46-20<br>Cotton Stand<br>Base Assembly<br>150139-0-01          |
| Z-42      | Cushion                  |      | 147919-0-02 |                                                           | Z-46-19   | Spool Holder Assembly        |      | 150177-0-01 |                                                                  |
| Z-43      | Oil Tank Cover           |      | 155323-0-00 |                                                           | Z-46-20-1 | Cotton Stand Base            |      | 150189-0-01 |                                                                  |
| Z-44      | Washer                   |      | 105161-0-03 |                                                           | Z-46-20-2 | Screw 6 x 10                 |      | 150181-0-01 |                                                                  |
| Z-45      | Screw 3.57 x 10          |      | 009671-0-12 |                                                           | Z-46-21   | Screw 4.5 x 22               |      | 031452-2-03 |                                                                  |
| Z-46-1    | Thread Hanger Assembly   |      | 147056-0-01 |                                                           | Z-46-22   | Spool Holder Supporter A     |      | 150188-0-01 | Z-47<br>Full-Sub-<br>merged Set<br>155324-0-01<br>(Option Parts) |
| Z-46-2    | Thread Guide 5           |      | 142999-0-01 |                                                           | Z-46-23   | Screw 4.5 x 22               |      | 031452-2-03 |                                                                  |
| Z-46-3-1  | Thread Guide Stopper Bar |      | 142996-0-01 | Z-46-3<br>Thread Guide<br>Stopper Bar<br>142971-0-01      | Z-46-24   | Screw 5 x 10                 |      | 007501-0-03 |                                                                  |
| Z-46-3-2  | Screw 4.76               |      | 013719-4-12 |                                                           | Z-46-25   | Nut 5                        |      | 021500-1-03 |                                                                  |
| Z-46-4    | Cap                      |      | 150174-0-00 |                                                           | Z-47-1    | Bolt                         |      | 153318-0-01 |                                                                  |
| Z-46-5    | Thread Hanger Assembly   |      | 147055-0-01 | Z-46<br>Cotton Stand<br>Assembly<br>150162-0-01           | Z-47-2    | Washer                       |      | 025080-2-36 |                                                                  |
| Z-46-6    | Bolt 5 x 28              |      | 017502-8-03 |                                                           | Z-47-3    | Collar                       |      | 153317-0-01 |                                                                  |
| Z-46-7    | Washer                   |      | 025050-2-33 |                                                           | Z-47-4    | Washer                       |      | 028080-2-42 |                                                                  |
| Z-46-8    | Pipe                     |      | 150172-0-01 |                                                           | Z-47-5    | Nut                          |      | 021080-1-06 |                                                                  |
| Z-46-9-1  | Joint                    |      |             | Z-46-9<br>Joint for<br>Cotton Stand<br>150106-0-01        | Z-47-6    | Bolt 8 x 55                  |      | 211964-0-01 |                                                                  |
| Z-46-9-2  | Nut 5                    |      | 021500-1-03 |                                                           | Z-47-7    | Bolt 8 x 55                  |      | 017085-5-02 |                                                                  |
| Z-46-9-3  | Screw 5 x 14             |      | 150202-0-01 |                                                           | Z-47-8    | Machine Base Plate Supporter |      | 153319-0-01 |                                                                  |
| Z-46-10-1 | Thread Guide Holder      |      | 150185-0-01 | Z-46-10<br>Thread Guide<br>Holder Assembly<br>150145-0-01 | Z-47-9    | Stud                         |      | 155326-0-01 |                                                                  |
| Z-46-10-2 | Nut 5                    |      | 021500-1-03 |                                                           | Z-47-10   | Duster Shoot Supporter       |      | 155325-0-01 |                                                                  |
| Z-46-10-3 | Bolt 5 x 28              |      | 017502-8-03 |                                                           | Z-47-11   | Washer                       |      | 025680-2-32 |                                                                  |
| Z-46-11   | Spool Shaft (B)          |      | 150179-0-01 |                                                           | Z-47-12   | Screw                        |      | 009681-0-12 |                                                                  |
| Z-46-12   | Spool Cushion            |      | 147060-0-01 |                                                           |           |                              |      |             |                                                                  |

\*The details of included accessories are subject to change.

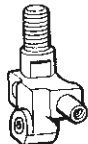
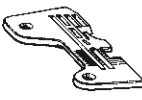
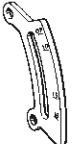
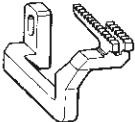
\*Änderungen in der Aufstellung der mitgelieferten Zubehöre sind vorbehalten.

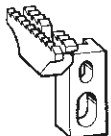
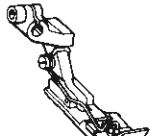
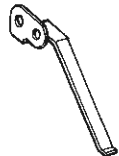
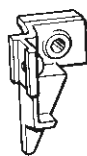
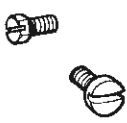
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# DIFFERENT PARTS LIST

| Sub Class                     | Specifications      | Label | Stitch Length Control Plate                              | Oil Cap | Supporter for Front Cover Assembly | Looper Threading Label | Threading Diagram |       |             |             |             |
|-------------------------------|---------------------|-------|----------------------------------------------------------|---------|------------------------------------|------------------------|-------------------|-------|-------------|-------------|-------------|
|                               |                     | 061-  |                                                          |         |                                    |                        |                   |       |             |             |             |
| 061-2<br>-3<br>-4<br>-5       | Thin                | A-26  | 146976-0-81<br>146976-0-01<br>146976-0-02<br>146976-0-03 |         |                                    | A-95                   | 155340-0-01       | A-96  | 154850-0-01 |             |             |
| 062-2<br>-3                   | Thin                | A-26  | 146976-0-82<br>146976-0-04                               |         |                                    |                        |                   | A-100 | 154851-0-01 |             |             |
| 063-3<br>-4<br>-5             | Thin, medium        | A-26  | 146976-0-07<br>146976-0-08<br>146976-0-09                | A-32    | 154808-0-01                        | A-90                   | 143196-0-01       | A-95  | 155340-0-01 | A-96        | 154850-0-01 |
| 064-3<br>-4<br>-5             | Thin, medium        | A-26  | 146976-0-10<br>146976-0-11<br>146976-0-12                |         |                                    |                        |                   | A-100 | 154851-0-01 |             |             |
| 065-4<br>-5<br>-6<br>-7       | Mediamheavy         | A-26  | 146976-0-95<br>146976-0-13<br>146976-0-14<br>146976-0-15 |         |                                    | A-95                   | 155340-0-01       | A-96  | 154850-0-01 |             |             |
| 066-5<br>-6<br>-7             | Mediamheavy         | A-26  | 146976-0-16<br>146976-0-17<br>146976-0-18                |         |                                    |                        |                   | A-100 | 154851-0-01 |             |             |
| 067-4<br>-5                   | Ruffling            | A-26  | 146976-0-19<br>146976-0-97                               |         |                                    |                        |                   |       |             |             |             |
| 069-5                         | Ruffling            | A-26  | 146976-0-21                                              |         |                                    |                        |                   |       |             |             |             |
| 071-5<br>-6                   | Ruffling            | A-26  | 146976-0-88<br>146976-0-23                               |         |                                    |                        |                   |       |             |             |             |
| 073-4<br>-5                   | Ruffling (W/piping) | A-26  | 146976-0-25<br>146976-0-99<br>146976-0-27                | A-34    | 154810-0-01                        | A-91                   | 154825-0-01       | A-95  | 155340-0-01 | A-96        | 154850-0-01 |
| 075-4<br>-5                   | Ruffling (W/piping) | A-26  | 146976-0-29                                              |         |                                    |                        |                   |       |             |             |             |
| 077-6<br>-5                   | Ruffling (W/piping) | A-26  | 146976-0-30                                              |         |                                    |                        |                   | A-100 | 154851-0-01 |             |             |
| 079-3<br>-4                   | Taping              | A-26  | 146976-0-31<br>146976-0-32                               |         |                                    |                        |                   |       |             |             |             |
| 081-3<br>-4<br>-5             | Taping              | A-26  | 146976-0-37<br>146976-0-38<br>146976-0-39                |         |                                    | A-95                   | 155340-0-01       | A-96  | 154850-0-01 |             |             |
| 083-5                         | Taping              | A-26  | 146976-0-43                                              |         |                                    |                        |                   |       |             |             |             |
| 084-5<br>-6                   | Taping              | A-26  | 146976-0-46<br>146976-0-47                               |         |                                    |                        |                   | A-100 | 154851-0-01 |             |             |
| 087-5<br>-6                   | Denim               | A-26  | 146976-0-80<br>146976-0-51                               |         |                                    | A-95                   | 155340-0-01       | A-96  | 154850-0-01 |             |             |
| 088-5<br>-6                   | Denim               | A-26  | 146976-0-78<br>146976-0-79                               | A-32    | 154808-0-01                        | A-90                   | 143196-0-01       |       | A-100       | 154851-0-01 |             |
| 089-4<br>-5                   | Binding             | A-26  | 146976-0-64<br>146976-0-69                               |         |                                    | A-101                  | 154827-0-01       | A-95  | 155340-0-01 | A-96        | 154850-0-01 |
| 090-5                         | Binding             | A-26  | 146976-0-98                                              |         |                                    |                        |                   | A-100 | 154851-0-01 |             |             |
| 092-3<br>-4<br>-5<br>-6<br>-7 | Denim               | A-26  | 146976-0-89<br>146976-0-90<br>146976-0-91<br>146976-0-92 |         |                                    | A-91                   | 154825-0-01       | A-95  | 155340-0-01 | A-96        | 154850-0-01 |
| 094-3<br>-5<br>-7             | Thin, medium        | A-26  | 151488-0-01<br>151488-0-02<br>151488-0-03                |         |                                    | A-95                   | 155340-0-01       | A-96  | 154850-0-01 |             |             |

| Sub Class | Front Cover Assembly                                                              | Needle DC x 27                                                                    | Needle Clamp Assembly                                                             | Needle Plate                                                                      | Over Looper                                                                        | Differential Stitch Control                                                         | Differential Feed Dog                                                               |
|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 061-2     |  |  |  |  |  |  |  |
| -3        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 062-2     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -3        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 063-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 064-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 065-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -7        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 066-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -7        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 067-4     | A-97 154861-0-01                                                                  | B-26 151474-0-11                                                                  | B-50 154914-0-01                                                                  | B-54 148280-0-01<br>146498-0-01<br>146499-0-01<br>146500-0-01                     | D-11 155240-0-01                                                                   | G-35 155172-0-01                                                                    | G-75 146572-0-01                                                                    |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 069-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 073-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 077-6     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 079-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 081-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 083-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 084-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 087-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 088-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 089-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 090-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 092-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 094-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -7        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

| Sub Class | Chain Feed Dog                                                                    | Main Feed Dog                                                                     | Presser Foot Assembly                                                             | Spring                                                                            | Upper Knife Holder                                                                 | Upper Knife                                                                         | Bolt and Screw                                                                      |
|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 061-2     |  |  |  |  |  |  |  |
| -3        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 062-2     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -3        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 063-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 064-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 065-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -7        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 066-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -7        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 067-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 069-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 071-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 073-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 075-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 077-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 078-6     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 079-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 081-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -4        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 083-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 084-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 087-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 088-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 089-4     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 090-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 092-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 093-5     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -6        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 094-3     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -5        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| -7        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-38                                                                               | 155106-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-84                                                                              | 146578-0-01                                                                       | G-81                                                                              | 146570-0-01                                                                       | H-51                                                                               | 155109-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-46                                                                               | 156066-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-84                                                                              | 146578-0-01                                                                       | G-82                                                                              | 147829-0-01                                                                       | H-54                                                                               | 155113-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-83                                                                              | 147830-0-01                                                                       | H-55                                                                               | 155114-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-87                                                                              | 147831-0-01                                                                       | H-56                                                                               | 155115-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-48                                                                               | 155121-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
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|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-76                                                                              | 146567-0-01                                                                       | H-47                                                                               | 156199-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 155118-0-01                                                                         | H-58                                                                                |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
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|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-79                                                                              | 146568-0-01                                                                       | H-50                                                                               | 156197-0-01                                                                         |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|           | G-77                                                                              | 146577-0-01                                                                       | G-89                                                                              | 146569-0-01                                                                       | H-57                                                                               | 15511                                                                               |                                                                                     |

| Sub Class | Upper Knife Presser | Upper Knife Presser Plate | Spring           | Ruffler Interlocking Parts Assembly | Ruffling Attachment Assembly         | Handle and Nut                       | Knee Lifter Shaft Bracket Assembly   |
|-----------|---------------------|---------------------------|------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 061-2     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -3        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -4        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 062-2     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -3        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 063-3     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -4        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 064-3     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -4        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 065-4     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -7        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 066-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -7        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 067-4     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 069-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| 071-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 073-4     |                     |                           | K-18 144104-0-01 | P- 1 155547-0-02                    | P- 2 146587-1-02<br>P- 3 009781-8-12 | P- 4 145809-0-01<br>P- 5 150556-0-02 | P-11 155196-0-01<br>P-12 009681-0-12 |
| 075-4     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 077-6     |                     |                           |                  |                                     |                                      |                                      |                                      |
| 078-6     |                     |                           |                  |                                     |                                      |                                      |                                      |
| 079-3     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -4        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 081-3     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -4        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 083-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| 084-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 087-5     |                     |                           | K-60 148851-0-01 |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 088-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 089-4     |                     |                           | K-18 144104-0-01 |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 090-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| 092-5     | J-23 148343-0-01    | J-24 148344-0-01          | K-60 148851-0-01 |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 093-5     |                     |                           |                  |                                     |                                      |                                      |                                      |
| -6        |                     |                           |                  |                                     |                                      |                                      |                                      |
| 094-3     |                     |                           | K-18 144104-0-01 |                                     |                                      |                                      |                                      |
| -5        |                     |                           |                  |                                     |                                      |                                      |                                      |
| -7        |                     |                           |                  |                                     |                                      |                                      |                                      |

| Sub Class                                     | Cotton Stand and Stud Screw | Cotton Stand     | Tape Winder Assembly                 | Wrapper Assembly                                         | Tape Guide                                               | Tape Guide                           | Needle DC x 27 Assembly |
|-----------------------------------------------|-----------------------------|------------------|--------------------------------------|----------------------------------------------------------|----------------------------------------------------------|--------------------------------------|-------------------------|
| 061-2<br>-3<br>-4<br>-5                       |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 062-2<br>-3                                   |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-11        |
| 063-3<br>-4<br>-5                             |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-14        |
| 064-3<br>-4<br>-5                             |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 065-4<br>-5<br>-6<br>-7                       |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-16        |
| 066-5<br>-6<br>-7                             |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 067-4<br>-5                                   |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 069-3                                         |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 071-5<br>-6                                   |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 073-4<br>P-13 155205-0-01<br>P-14 146594-0-01 |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-14        |
| 075-4<br>-5                                   |                             | R- 1 181031-0-01 | R- 2 143767-0-02<br>R- 3 101118-0-01 | R- 4 147440-0-00<br>R- 5 110735-0-02<br>R- 6 009680-6-12 |                                                          |                                      |                         |
| 077-6                                         |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 078-6                                         |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 079-3<br>-4                                   |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-11        |
| 081-3<br>-4<br>-5                             |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-14        |
| 083-5                                         |                             |                  |                                      |                                                          |                                                          | Q- 1 146883-0-01<br>Q- 2 009669-4-12 | Z-12 151474-4-16        |
| 084-5<br>-6                                   |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 087-5<br>-6                                   |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-21        |
| 089-4<br>-5                                   |                             |                  | R- 2 143767-0-02<br>R- 3 101118-0-01 | R- 7 147373-0-00<br>R- 8 025350-3-32<br>R- 9 009670-5-12 | R-10 147377-0-01<br>R-11 025350-3-32<br>R-12 009670-5-12 |                                      | Z-12 151474-4-14        |
| 090-5                                         |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 092-5<br>-6                                   |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-21        |
| 093-5<br>-6                                   |                             |                  |                                      |                                                          |                                                          |                                      |                         |
| 094-3<br>-5<br>-7                             |                             |                  |                                      |                                                          |                                                          |                                      | Z-12 151474-4-11        |

# INDEX

| Parts No.   | Ref. No. | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark |
|-------------|----------|--------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
| 0014014-06  | Z-32     |        | 009680-6-12 | A-98       |        | 025050-2-33 | Z-46- 7    |        | 105288-0-01 | H-49-12    |        |
|             |          |        |             | P- 2-11    |        | 025080-2-36 | Z-38       |        |             | H-50-12    |        |
| 001630-4-02 | K-42     |        |             | R- 6       |        |             | Z-47- 2    |        |             | H-51-10    |        |
| 001670-5-12 | A- 4     |        | 009680-7-12 | A-43       |        | 025350-3-32 | A- 9       |        |             | H-52-10    |        |
|             | A- 7     |        |             | A-46       |        |             | R- 7       |        |             | H-53-10    |        |
|             | P- 2- 9  |        |             | A-85       |        |             | R-11       |        |             | H-54-10    |        |
| 001670-6-12 | A-10     |        |             | B-43       |        | 025680-2-32 | Z-22       |        |             | H-55-10    |        |
|             | K- 6     |        |             | G-49       |        |             | Z-47-12    |        |             | H-56-10    |        |
|             | K- 8     |        |             | H-34       |        | 025770-2-32 | P- 2-20    |        |             | K- 4       |        |
|             | N-10     |        |             | M-11       |        | 028050-2-42 | K-46       |        | 105343-0-01 | Z- 3       |        |
| 001680-5-12 | B-37     |        | 009680-8-12 | D-10       |        |             | R- 1- 5    |        | 106568-0-03 | G-66       |        |
|             | B-40     |        |             | P- 2-28    |        | 028050-2-43 | Z-46-15    |        | 107231-0-02 | H-16       |        |
| 007501-0-03 | Z-46-24  |        | 009681-0-12 | A-29       |        | 028080-2-42 | Z-39       |        | 107407-0-03 | A-57       |        |
| 007670-5-13 | A- 5     |        |             | A-31       |        |             | Z-47- 4    |        |             | G-68       |        |
| 009630-8-12 | G-71     |        |             | C-20       |        | 031311-3-02 | Z-19       |        |             | G-69       |        |
| 009639-3-12 | H-38- 7  |        |             | P-12       |        | 031452-2-03 | Z-46-21    |        |             | J- 9       |        |
|             | H-39- 7  |        |             | Z-23       |        |             | Z-46-23    |        | 107779-0-01 | Z- 4       |        |
|             | H-40- 7  |        |             | Z-47-11    |        | 047140-8-42 | A-97- 7    |        | 108494-0-01 | R- 2- 5    |        |
|             | H-48- 6  |        | 009681-2-12 | A-22       |        |             | A-99- 7    |        | 108495-0-01 | R- 2- 6    |        |
| 009660-5-12 | Z-16- 3  |        |             | L-44       |        | 047201-6-40 | M- 8- 3    |        | 108960-0-02 | A-51       |        |
| 009660-6-12 | D-12     |        | 009681-6-12 | N-12       |        | 048020-3-42 | H- 3       |        | 109203-0-01 | A-48       |        |
|             | H-57- 9  |        | 009682-2-12 | L-35       |        | 048025-3-42 | H-45-10    |        |             | G-29       |        |
| 009660-7-12 | H-51-12  |        |             | N-15       |        |             | H-46-10    |        |             | L-58       |        |
|             | H-52-12  |        | 009711-2-12 | F-15       |        |             | H-47-10    |        | 110161-0-03 | R- 1- 6    |        |
|             | H-53-12  |        | 009781-8-12 | P- 3       |        |             | H-49-10    |        | 110161-0-06 | H-32       |        |
|             | H-54-12  |        | 013679-4-12 | P- 2-30    |        |             | H-50-10    |        | 110197-0-01 | B- 9       |        |
|             | H-55-12  |        | 013719-4-12 | C- 6       |        | 048040-3-42 | G-58       |        |             | N- 7       |        |
|             | H-56-12  |        |             | Z-46- 3- 2 |        | 071023-8-50 | N-11- 5    |        | 110230-0-01 | P- 2-15    |        |
|             | P- 2- 3  |        | 013750-5-12 | D- 6       |        | 081010-0-70 | N-13       |        | 110641-0-01 | L-57       |        |
| 009669-4-12 | Q- 2     |        |             | E- 5       |        | 081011-0-70 | A-87       |        | 110641-0-02 | A-49       |        |
| 009670-4-12 | A-97- 8  |        |             |            |        |             | L-51       |        | 110735-0-02 | A-42       |        |
|             | A-99- 8  |        | 013760-6-12 | A-64       |        | 081016-0-70 | L-48       |        |             | M-12       |        |
|             | K-32     |        | 014680-4-22 | B-10       |        | 081022-0-70 | L- 2       |        |             | R- 5       |        |
|             | K-44     |        |             | E-12       |        |             | L-50       |        | 110793-0-01 | H-27       |        |
| 009670-5-12 | L-17     |        |             | F- 7       |        | 081044-0-70 | L-49       |        | 110813-0-01 | K-13       |        |
|             | R- 9     |        |             | F-11       |        | 100032-0-03 | A- 2       |        |             | K-56       |        |
|             | R-12     |        |             | F-31       |        |             | B-41       |        | 110820-0-01 | K-14       |        |
| 009670-6-12 | A-13     |        |             | G-45- 3    |        | 100080-0-02 | R- 1- 3    |        |             | P- 2-21    |        |
|             | A-73     |        |             | G-46       |        | 100136-0-01 | R- 2- 7    |        | 110832-0-01 | K-15       |        |
|             | A-82     |        |             | K-49       |        | 100257-0-10 | M- 2       |        |             | K-54       |        |
|             | B-22     |        |             | N- 8       |        | 100260-0-01 | N-11- 8- 2 |        | 111486-0-01 | B-38       |        |
|             | B-25     |        | 014680-6-22 | F- 9       |        | 100294-0-02 | G-34       |        | 112301-0-01 | P- 1- 7- 2 |        |
|             | B-28     |        | 014770-6-22 | G-45- 1- 4 | G- 5   | 100366-0-01 | B-15- 3    |        | 112348-0-01 | L- 6       |        |
|             | G-62     |        | 014780-6-22 | B- 8       |        |             | J- 5- 6    |        |             | L-11       |        |
|             | J-16     |        |             | G-54       |        | 100444-0-02 | R- 1- 2    |        |             | L-13       |        |
|             | K-10     |        |             | P-11- 3    |        | 100447-0-01 | R- 1- 7    |        |             | L-19       |        |
|             | K-12     |        |             | P-11- 7    |        | 100463-0-01 | P-11-13    |        |             | L-25       |        |
|             | K-26     |        |             | P-11- 9    |        | 100645-0-03 | G-67       |        |             | L-20       |        |
|             | K-28     |        |             | P-11-11    |        | 101118-0-01 | R- 3       |        |             | L-23       |        |
|             | K-31     |        | 014821-0-22 | L-45       |        | 101572-1-01 | Z- 9       |        |             | L-28       |        |
|             | K-34     |        | 017085-5-02 | Z-47- 7    |        | 101706-0-01 | A-54- 2    |        | 112351-0-01 | L-12       |        |
|             | K-36     |        | 017502-8-03 | Z-46- 6    |        |             | G-27- 2    |        | 112359-0-01 | L-18       |        |
|             | K-38     |        |             | Z-46-10- 3 |        |             | G-52- 2    |        |             | L-26       |        |
|             | K-59     |        |             | Z-46-18    |        |             | H-24- 2    |        |             | L-21       |        |
|             | L-30     |        | 017761-4-12 | F-20       |        |             | L-34- 2- 2 |        |             | L-24       |        |
|             | L-55     |        | 017771-4-12 | C-24       |        |             | P- 2- 6    |        |             | L-27       |        |
|             | L-62     |        | 017771-6-12 | A-75       |        |             | P- 2- 7- 2 |        | 112364-0-01 | L- 8       |        |
|             | P- 1- 5  |        | 017781-4-12 | G-38       |        | 102424-0-03 | J-25       |        |             | L-14       |        |
| 009670-7-12 | A-19     |        | 017782-0-12 | B-35       |        | 102538-0-02 | C- 2       |        | 112525-0-00 | L-63       |        |
|             | N-11- 2  |        | 021080-1-06 | Z-40       |        |             | L- 5       |        | 112750-0-00 | A-66       |        |
| 009670-8-12 | A-78     |        |             | Z-47- 5    |        | 102627-0-01 | J-18       |        | 113431-0-02 | F- 2       |        |
|             | C- 5     |        | 021400-1-06 | Z-31       |        | 104450-0-01 | A-11       |        |             | G-14       |        |
|             | E-14     |        | 021500-1-03 | Z-46- 9- 2 |        | 105161-0-03 | Z-44       |        |             | G-56       |        |
|             | G- 3     |        |             | Z-46-10- 2 |        |             | P- 2-23    |        | 114483-0-01 | Z-25       |        |
|             | L-34- 5  |        |             | Z-46-16    |        | 105234-0-03 | A-59       |        | 116016-0-01 | Z-30       |        |
| 009671-0-12 | M- 9     |        |             | Z-46-25    |        |             | P- 2-16    |        | 117160-0-01 | A-92       |        |
|             | N-14- 4  |        | 021670-2-02 | B-32       |        | 105288-0-01 | A-33       |        | 117466-0-00 | Z-11       |        |
|             | Z-45     |        |             | N-11- 7    |        |             | H-45-12    |        | 117516-0-01 | G-70       |        |
| 009671-0-14 | J-26     |        | 025030-1-32 | Z-16- 2    |        |             | H-46-12    |        |             | J-14       |        |
| 009671-4-12 | B-33     |        | 025031-2-32 | H-57- 8    |        |             | H-47-12    |        | 118735-0-02 | A-74       |        |

| Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No. | Remark | Parts No.   | Ref. No. | Remark |
|-------------|------------|--------|-------------|------------|--------|-------------|----------|--------|-------------|----------|--------|
| 118735-0-02 | G-39       |        | 142125-0-00 | Z-14       |        | 145446-0-01 | K-53     |        | 146865-0-01 | H-49-14  |        |
|             | L-60       |        | 142243-0-01 | H-38- 9    |        | 145803-0-01 | P- 2- 4  |        | 146870-0-01 | H-45- 5  |        |
| 118770-0-01 | G-55       |        |             | H-39- 9    |        | 145807-0-01 | P- 2-27  |        |             | H-46- 5  |        |
| 118837-0-01 | Z- 7       |        |             | H-40- 9    |        | 145808-0-01 | P- 2-24  |        |             | H-47- 5  |        |
| 122771-0-02 | H-45- 6    |        |             | H-48- 9    |        | 145809-0-01 | P- 4     |        |             | H-49- 5  |        |
|             | H-46- 6    |        | 142244-0-01 | H-38- 5    |        | 145810-0-01 | P- 2-14  |        |             | H-50- 5  |        |
|             | H-47- 6    |        |             | H-39- 5    |        | 145811-0-01 | P- 2-10  |        | 146880-0-01 | H-51- 5  |        |
|             | H-49- 6    |        |             | H-48- 5    |        |             | A-61     |        | 146924-0-00 | A-91- 2  |        |
|             | H-50- 6    |        | 142245-0-01 | H-38- 6    |        | 146427-0-01 | A-16     |        |             | A-101- 2 |        |
| 122991-0-01 | Z- 1       |        |             | H-39- 6    |        |             | B- 6     |        | 146926-0-02 | K-25     |        |
| 123185-0-01 | A-94       |        |             | H-40- 8    |        |             | B-50- 2  |        | 146926-0-03 | K-27     |        |
| 124918-0-01 | A-68       |        |             | H-48- 7    |        |             | B-51- 2  |        | 146930-0-01 | K-37     |        |
| 140063-0-01 | G-31       |        | 142246-0-01 | H-38- 3    |        |             | B-52- 2  |        | 146976-0-01 | A-26     |        |
| 140066-0-01 | A-62       |        |             | H-48- 3    |        |             | B-53- 2  |        | 146976-0-02 | A-26     |        |
| 140077-0-01 | A-80       |        | 142247-0-01 | H-38- 4    |        |             | F-21     |        | 146976-0-03 | A-26     |        |
|             |            |        |             | H-39- 4    |        |             | H- 9     |        | 146976-0-04 | A-26     |        |
| 140210-0-01 | G-20       |        |             | H-40- 4    |        | 146442-0-01 | A-97- 3  |        | 146976-0-07 | A-26     |        |
| 140217-0-01 | G-24       |        |             | H-48- 4    |        |             | A-99- 3  |        | 146976-0-08 | A-26     |        |
| 140262-0-00 | H-30       |        | 142262-0-01 | Z-28       |        | 146450-0-01 | A- 3     |        | 146976-0-09 | A-26     |        |
| 140270-0-01 | H-46-14    |        | 142343-0-01 | Z-24       |        | 146452-0-01 | B-31     |        | 146976-0-10 | A-26     |        |
|             | H-50-14    |        | 142971-0-01 | Z-46- 3    |        | 146453-0-01 | B-30     |        | 146976-0-11 | A-26     |        |
|             | H-51-14    |        | 142996-0-01 | Z-46- 3- 1 |        | 146454-0-01 | B-27     |        | 146976-0-12 | A-26     |        |
|             | H-52-14    |        | 142999-0-01 | Z-46- 2    |        | 146494-0-01 | B-36     |        | 146976-0-13 | A-26     |        |
|             | H-53-14    |        | 143196-0-01 | A-90       |        | 146495-0-01 | B-39     |        | 146976-0-14 | A-26     |        |
|             | H-54-14    |        | 143323-1-03 | H-36       |        | 146496-2-01 | B-24     |        | 146976-0-15 | A-26     |        |
|             | H-55-14    |        | 143325-0-01 | H-35       |        | 146497-1-01 | B-42     |        | 146976-0-16 | A-26     |        |
|             | H-56-14    |        | 143766-0-01 | A-86       |        | 146498-0-01 | B-54     |        | 146976-0-17 | A-26     |        |
| 140271-0-01 | H-52- 5    |        | 143767-0-02 | R- 2       |        | 146499-0-01 | B-54     |        | 146976-0-18 | A-26     |        |
| 140272-0-01 | H-51- 8    |        | 143980-0-01 | R- 2- 1    |        | 146500-0-01 | B-54     |        | 146976-0-19 | A-26     |        |
|             | H-52- 8    |        | 144049-0-01 | E-11       |        | 146501-0-01 | B-55     |        | 146976-0-21 | A-26     |        |
|             | H-53- 8    |        | 144074-0-00 | J-10       |        | 146502-0-01 | B-55     |        | 146976-0-23 | A-26     |        |
|             | H-54- 8    |        | 144075-0-01 | J-11       |        | 146503-0-01 | B-55     |        | 146976-0-25 | A-26     |        |
|             | H-55- 8    |        | 144083-0-01 | H- 4       |        | 146504-0-01 | B-56     |        | 146976-0-27 | A-26     |        |
|             | H-56- 8    |        | 144084-0-01 | H- 2       |        | 146505-0-01 | B-56     |        | 146976-0-29 | A-26     |        |
| 140273-0-01 | H-51- 7    |        | 144088-0-01 | H-15       |        | 146506-0-01 | B-56     |        | 146976-0-30 | A-26     |        |
|             | H-52- 7    |        | 144103-0-03 | K-17       |        | 146507-0-01 | B-57     |        | 146976-0-31 | A-26     |        |
|             | H-53- 7    |        | 144104-0-01 | K-18       |        | 146508-0-01 | B-58     |        | 146976-0-32 | A-26     |        |
|             | H-54- 7    |        | 144105-0-00 | K-19       |        | 146509-0-01 | B-59     |        | 146976-0-36 | A-26     |        |
|             | H-55- 7    |        |             | K-51       |        | 146510-0-01 | B-61     |        | 146976-0-37 | A-26     |        |
|             | H-56- 7    |        |             | P- 2-18    |        | 146522-0-01 | H-31     |        | 146976-0-38 | A-26     |        |
| 140275-0-01 | H-51- 6    |        | 144110-0-01 | K-24       |        | 146536-0-01 | G-60     |        | 146976-0-39 | A-26     |        |
|             | H-52- 6    |        | 144117-0-00 | J- 7       |        |             |          |        | 146976-0-43 | A-26     |        |
|             | H-53- 6    |        | 144124-0-01 | Z- 6       |        | 146547-0-00 | G-51     |        | 146976-0-46 | A-26     |        |
|             | H-54- 6    |        | 144127-0-02 | E-13       |        | 146559-0-01 | G-33     |        | 146976-0-47 | A-26     |        |
|             | H-55- 6    |        | 144225-0-01 | Z-27       |        | 146563-0-01 | G-40     |        | 146976-0-51 | A-26     |        |
|             | H-56- 6    |        | 144622-0-01 | L-34- 1    |        | 146567-0-01 | G-76     |        | 146976-0-64 | A-26     |        |
| 140313-0-01 | F-12       |        |             | N-14- 2    |        | 146568-0-01 | G-79     |        | 146976-0-69 | A-26     |        |
| 140317-0-00 | J- 6       |        | 144764-0-01 | P- 2- 8    |        | 146569-0-01 | G-89     |        | 146976-0-78 | A-26     |        |
| 140320-0-00 | B-17       |        | 144777-0-01 | H-51-11    |        | 146570-0-01 | G-81     |        | 146976-0-79 | A-26     |        |
| 140342-0-01 | Z- 2       |        |             | H-52-11    |        | 146571-0-01 | G-86     |        | 146976-0-80 | A-26     |        |
| 140361-0-01 | A-60       |        |             | H-53-11    |        | 146572-0-01 | G-75     |        | 146976-0-81 | A-26     |        |
| 140417-0-00 | D-13       |        |             | H-54-11    |        | 146573-0-01 | G-78     |        | 146976-0-82 | A-26     |        |
| 140759-0-00 | Z-15       |        |             | H-55-11    |        | 146574-0-01 | G-88     |        | 146976-0-88 | A-26     |        |
| 140991-0-01 | H-53- 5    |        |             | H-56-11    |        | 146575-0-01 | G-80     |        | 146976-0-89 | A-26     |        |
| 140992-0-01 | H-51- 4    |        | 144778-0-01 | H-51- 9    |        | 146576-0-01 | G-85     |        | 146976-0-90 | A-26     |        |
|             | H-52- 4    |        |             | H-52- 9    |        | 146577-0-01 | G-77     |        | 146976-0-91 | A-26     |        |
|             | H-53- 4    |        |             | H-53- 9    |        | 146578-0-01 | G-84     |        | 146976-0-92 | A-26     |        |
|             | H-54- 4    |        |             | H-54- 9    |        | 146584-0-01 | J-19     |        | 146976-0-95 | A-26     |        |
|             | H-55- 4    |        |             | H-55- 9    |        | 146587-1-02 | P- 2     |        | 146976-0-97 | A-26     |        |
|             | H-56- 4    |        |             | H-56- 9    |        | 146588-0-01 | P- 2-12  |        | 146976-0-98 | A-26     |        |
| 140993-0-01 | H-51- 3    |        | 144783-0-01 | P- 2- 1    |        | 146589-0-01 | P- 2- 5  |        | 146976-0-99 | A-26     |        |
|             | H-52- 3    |        | 144784-0-01 | P- 2- 2    |        | 146590-0-01 | P- 2-22  |        | 147055-0-01 | Z-46- 5  |        |
|             | H-53- 3    |        | 144788-0-01 | P- 2-19    |        | 146592-0-01 | P- 2-29  |        | 147056-0-01 | Z-46- 1  |        |
|             | H-54- 3    |        | 144874-0-01 | L-54       |        | 146594-0-01 | P-14     |        | 147060-0-01 | Z-46-12  |        |
|             | H-55- 3    |        | 145147-0-01 | H-45-11    |        | 146635-0-01 | F-30     |        | 147148-0-01 | K-55     |        |
|             | H-56- 3    |        |             | H-46-11    |        | 146654-0-01 | K-33     |        | 147149-0-01 | K-52     |        |
| 141183-0-00 | A-53       |        |             | H-49-11    |        | 146663-0-01 | K-41     |        | 147362-0-00 | G-72     |        |
| 141514-0-01 | P- 1- 4    |        |             | H-50-11    |        | 146700-0-01 | Z- 8     |        | 147369-0-01 | B-60     |        |
|             | P- 1- 7- 5 |        | 145277-1-04 | Z-26       |        | 146865-0-01 | H-45-14  |        | 147371-0-01 | H-47-11  |        |
| 141542-0-01 | H-14       |        | 145446-0-01 | K-16       |        |             | H-47-14  |        | 147373-0-00 | R- 7     |        |

| Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No. | Remark | Parts No.   | Ref. No. | Remark |
|-------------|------------|--------|-------------|------------|--------|-------------|----------|--------|-------------|----------|--------|
| 147377-0-01 | R-10       |        | 149170-0-01 | G-13       |        | 151474-4-21 | Z-12     |        | 154871-0-01 | C- 9     |        |
| 147440-0-00 | R- 4       |        |             | G-45- 1- 5 |        | 151475-0-00 | M- J- 2  |        | 154872-0-01 | C-10     |        |
| 147454-0-01 | P- 1- 1    |        |             | H-28       |        | 151488-0-01 | A-26     |        | 154873-0-01 | C-11     |        |
| 147488-0-01 | H-55- 5    |        |             | J- 5- 2    |        | 151488-0-02 | A-26     |        |             |          |        |
| 147489-0-01 | H-56- 5    |        |             | N- 5       |        | 151488-0-03 | A-26     |        | 154875-0-01 | C-12     |        |
| 147672-0-01 | P- 1- 3    |        | 149171-0-01 | E- 9       |        | 151617-0-01 | K-58     |        |             | H-21     |        |
| 147738-0-00 | M- 1- 4    |        |             | F-33       |        | 152194-0-01 | A-97- 4  |        | 154876-0-01 | C-14     |        |
|             | M-10- 3    |        | 149173-0-01 | Z-10       |        |             | A-99- 4  |        | 154877-0-01 | C-15     |        |
| 147759-0-01 | H- 1       |        | 149260-0-01 | H-45- 8    |        | 152718-0-01 | B-14- 2  |        | 154878-0-01 | C-16     |        |
| 147783-0-01 | B-61       |        |             | H-47- 8    |        |             | D- 2- 2  |        | 154879-0-00 | C-18     |        |
| 147787-0-01 | H-54- 5    |        |             | H-49- 8    |        |             | J- 4- 2  |        | 154880-0-01 | C-17     |        |
| 147829-0-01 | G-82       |        | 149261-0-01 | H-45- 9    |        | 152936-0-01 | L-61     |        | 154881-0-00 | C-19     |        |
| 147830-0-01 | G-83       |        |             | H-47- 9    |        | 153317-0-01 | Z-47- 3  |        | 154882-0-01 | C-21     |        |
| 147831-0-01 | G-87       |        |             | H-49- 9    |        | 153318-0-01 | Z-47- 1  |        |             |          |        |
| 147893-0-01 | Z-29       |        | 149262-0-01 | H-45- 7    |        | 153319-0-01 | Z-47- 8  |        |             |          |        |
| 147919-0-01 | Z-41       |        |             | H-46- 7    |        |             |          |        | 154885-0-01 | C-13     |        |
| 147919-0-02 | Z-42       |        |             | H-47- 7    |        |             |          |        | 154886-0-01 | C-23     |        |
| 147933-0-01 | P- 2-13    |        |             | H-49- 7    |        | 153483-0-01 | H-33     |        | 154887-0-01 | C-22     |        |
| 147942-0-01 | M- 6       |        |             | H-50- 7    |        | 153675-0-01 | H-20     |        | 154888-0-01 | B-15     |        |
| 148015-0-01 | H-57- 4    |        | 149265-0-01 | H-46- 8    |        |             | L-32     |        |             |          |        |
|             | H-57- 5    |        |             | H-50- 8    |        | 154795-0-01 | P- 2-26  |        | 154891-0-01 | B-11     |        |
|             |            |        | 149266-0-01 | H-46- 9    |        | 154798-0-01 | A-21     |        | 154892-0-00 | B-13     |        |
| 148017-0-01 | H-57-10    |        |             | H-50- 9    |        | 154800-0-00 | A-23     |        | 154894-0-00 | B-12     |        |
| 148019-0-01 | H-57- 6    |        |             |            |        | 154801-0-01 | A-44     |        | 154895-0-01 | B- 4     |        |
| 148020-0-01 | H-57- 7    |        |             |            |        | 154802-0-00 | A-45     |        | 154896-0-00 | B- 7     |        |
| 148085-0-01 | A-71       |        | 149566-0-02 | K-20- 1    |        | 154803-0-01 | A-41     |        | 154897-0-01 | B- 1     |        |
| 148232-0-01 | F-27       |        |             | K-21- 1    |        | 154804-0-01 | A-55     |        | 154899-0-01 | B- 3     |        |
| 148240-0-01 | F-19       |        |             | K-22- 1    |        | 154805-0-00 | A-56     |        | 154900-0-01 | B-20     |        |
| 148241-0-01 | F-17       |        |             | K-23- 1    |        | 154806-0-00 | A-28     |        | 154901-0-01 | B-21     |        |
| 148259-0-01 | H-13       |        |             | P- 2-17    |        | 154808-0-01 | A-32     |        | 154902-0-01 | B-19     |        |
| 148280-0-01 | B-54       |        | 150106-0-01 | Z-46- 9    |        | 154810-0-01 | A-34     |        | 154903-0-01 | B- 5     |        |
| 148281-0-01 | J- 2       |        | 150139-0-01 | Z-46-20    |        | 154811-0-01 | A-14     |        | 154904-0-00 | B-18     |        |
| 148294-0-01 | D- 8- 4    |        | 150145-0-01 | Z-46-10    |        | 154812-0-01 | A-17     |        | 154905-0-00 | B-23     |        |
|             | F-28       |        | 150162-0-01 | Z-46       |        | 154813-0-00 | A-15     |        | 154914-0-01 | B-50     |        |
|             | L-47       |        | 150172-0-01 | Z-46- 8    |        | 154814-0-01 | A-18     |        | 154916-0-01 | B-51     |        |
| 148343-0-01 | J-23       |        | 150174-0-00 | Z-46- 4    |        | 154815-0-01 | A-20     |        | 154918-0-01 | B-52     |        |
| 148344-0-01 | J-24       |        | 150175-0-01 | Z-46-17    |        | 154817-0-01 | A-83     |        | 154919-0-01 | B-52- 1  |        |
| 148369-1-01 | P- 1- 2    |        | 150177-0-01 | Z-46-19    |        | 154818-0-00 | A-84     |        | 154920-0-01 | B-53     |        |
| 148372-0-01 | H-37       |        | 150179-0-01 | Z-46-11    |        | 154819-0-00 | A-77     |        | 154922-0-01 | B-34     |        |
|             |            |        | 150180-0-00 | Z-46-14    |        | 154820-0-00 | A-76     |        | 154923-0-01 | J-20     |        |
| 148387-0-01 | P- 1- 9    |        | 150181-0-01 | Z-46-20- 2 |        | 154822-0-01 | A-12     |        | 154924-0-01 | M-10     |        |
| 148388-0-01 | P- 1- 7- 4 |        | 150182-0-00 | Z-46-13    |        | 154825-0-01 | A-91     |        | 154928-0-00 | M-10- 2  |        |
| 148390-0-01 | P- 1- 7- 3 |        | 150185-0-01 | Z-46-10- 1 |        | 154827-0-01 | A-101    |        | 154929-0-00 | M-10- 4  |        |
| 148391-0-01 | P- 1- 6    |        | 150188-0-01 | Z-46-22    |        | 154829-0-01 | A-93     |        | 154932-0-00 | M- 1- 3  |        |
| 148398-0-01 | B-59       |        | 150189-0-01 | Z-46-20- 1 |        | 154830-0-01 | A- 1     |        | 154935-0-01 | M- 1     |        |
| 148425-0-01 | B-15- 5    |        | 150202-0-01 | Z-46- 9- 3 |        | 154831-0-01 | A-52     |        | 154936-0-00 | M- 1- 1  |        |
|             | C-11- 2    |        | 150553-0-02 | P- 2-31    |        | 154832-0-01 | A- 6     |        | 154939-0-00 | M- 3     |        |
|             | D- 3- 2    |        | 150556-0-02 | P- 5       |        | 154833-0-01 | B-29     |        | 154940-0-00 | M- 4     |        |
|             | D- 8- 8    |        | 150807-0-01 | K-48       |        | 154834-0-01 | A- 8     |        | 154941-0-00 | M- 7     |        |
|             | E- 2- 2    |        | 150808-0-01 | K-40       |        | 154835-0-01 | A-58     |        | 154942-0-00 | M- 5     |        |
|             | F- 5- 2    |        | 150810-0-01 | K-43       |        | 154836-0-01 | A-67     |        | 154943-0-01 | M- 8     |        |
|             | J- 5- 5    |        | 150811-0-01 | K-45       |        | 154837-0-01 | A-81     |        | 154945-0-00 | M- 8- 2  |        |
| 148430-0-01 | Z-18       |        | 150812-0-01 | K-47       |        | 154838-0-01 | A-50     |        | 154946-0-01 | H- 8     |        |
| 148431-0-01 | Z-20       |        | 151012-0-01 | K-50       |        | 154842-0-01 | A-69     |        | 154947-0-01 | H-12     |        |
| 148432-0-01 | Z-21       |        | 151464-0-01 | H-40- 5    |        | 154843-0-00 | A-70     |        |             |          |        |
| 148780-0-01 | B-56       |        | 151465-0-01 | H-40- 6    |        | 154850-0-01 | A-96     |        |             |          |        |
| 148782-0-01 | E-10       |        | 151466-0-01 | H-39- 3    |        | 154851-0-01 | A-100    |        | 154950-0-01 | H-11     |        |
|             | F-34       |        |             | H-40- 3    |        | 154854-0-01 | A-97- 6  |        | 154951-0-01 | H-10     |        |
| 148783-0-01 | F-18       |        | 151469-0-01 | G-91       |        |             | A-99- 6  |        | 154952-0-01 | H- 5     |        |
| 148798-0-01 | P-11-12    |        | 151470-0-01 | G-90       |        | 154855-0-00 | A-97- 2  |        | 154953-0-01 | H- 7     |        |
| 148815-0-01 | J-22       |        | 151471-0-01 | B-62       |        |             | A-99- 2  |        | 154954-0-01 | H- 6     |        |
| 148833-0-01 | B-57       |        | 151472-0-01 | B-62       |        | 154856-0-00 | A-97- 5  |        | 154955-0-01 | H-25     |        |
| 148834-0-01 | B- 2       |        | 151473-0-01 | B-62       |        |             | A-99- 5  |        | 154956-0-01 | H-26     |        |
| 148838-0-01 | F- 3       |        | 151474-0-11 | B-26       |        | 154861-0-01 | A-97     |        | 154957-0-01 | H-29     |        |
|             | G-15       |        | 151474-0-14 | B-26       |        | 154863-0-01 | A-99     |        | 154958-0-00 | H-23     |        |
| 148839-0-01 | B-60       |        | 151474-0-16 | B-26       |        | 154865-0-01 | C- 8     |        | 154959-0-01 | H-22     |        |
| 148851-0-01 | K-60       |        | 151474-0-21 | B-26       |        | 154866-0-01 | C- 1     |        | 154960-0-01 | H-17     |        |
| 149170-0-01 | B-16       |        | 151474-4-11 | Z-12       |        | 154867-0-01 | C- 3     |        | 154961-0-01 | H-19     |        |
|             | D- 8- 2    |        | 151474-4-14 | Z-12       |        | 154869-0-00 | C- 4     |        | 154962-0-01 | H-18     |        |
|             | G- 7- 1- 2 |        | 151474-4-16 | Z-12       |        | 154870-0-01 | C- 7     |        | 154965-0-01 | H-38- 2  |        |

| Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No. | Remark |
|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|-------------|----------|--------|
| 154965-0-01 | H-39- 2    |        | 155157-0-01 | G-19       |        | 155246-0-00 | E- 6       |        | 155552-0-01 | A-72     |        |
|             | H-40- 2    |        |             | G-23       |        | 155247-0-00 |            |        | 155555-0-00 | A-65     |        |
|             | H-45- 2    |        | 155158-0-01 | G-17       |        |             | A-79       |        | 155560-0-01 | G-47     |        |
|             | H-46- 2    |        | 155159-0-01 | G- 7       |        |             | E- 7       |        | 155696-0-01 | K-21     |        |
|             | H-47- 2    |        |             |            |        | 155248-0-01 | E- 8       |        | 155696-0-02 | K-22     |        |
|             | H-48- 2    |        | 155162-0-01 | D- 8- 3    |        | 155249-0-01 | F- 6       |        | 155696-0-03 | K-20     |        |
|             | H-49- 2    |        |             | G- 7- 1- 3 |        | 155250-0-01 | F- 5       |        | 155696-0-04 | K-23     |        |
|             | H-50- 2    |        |             |            |        | 155252-0-01 | F- 1       |        | 155697-0-01 | K-21- 2  |        |
|             | H-51- 2    |        | 155164-0-01 | G-21       |        | 155253-0-01 | F- 4       |        | 155697-0-02 | K-22- 2  |        |
|             | H-52- 2    |        | 155165-0-01 | G-22       |        | 155254-0-01 | F- 8       |        | 155697-0-03 | K-20- 2  |        |
|             | H-53- 2    |        | 155166-0-01 | G- 8       |        | 155255-0-01 | F-14       |        | 155697-0-04 | K-23- 2  |        |
|             | H-54- 2    |        | 155167-0-01 | G- 9       |        | 155256-0-01 | F-26       |        | 155863-0-01 | B-14     |        |
|             | H-55- 2    |        | 155168-0-01 | G-25       |        | 155257-0-01 | F-25       |        |             | D- 2     |        |
|             | H-56- 2    |        | 155169-0-01 | G-30       |        | 155258-0-01 | F-16       |        |             | J- 4     |        |
|             | H-57- 2    |        | 155170-0-00 | G-28       |        | 155259-0-00 | F-24       |        | 156022-0-01 | Z-16     |        |
| 154966-0-01 | N-11- 6    |        | 155171-0-01 | G-32       |        | 155260-0-00 | F-22       |        | 181031-0-01 | R- 1     |        |
| 154967-0-01 | H-59       |        | 155172-0-01 | G-35       |        | 155261-0-00 | F-23       |        | 181969-0-03 | A-54     |        |
| 155000-0-01 | H-45       |        | 155174-0-01 | G-41       |        | 155262-0-01 | F-32       |        |             | G-27     |        |
| 155102-0-01 | H-45- 3    |        | 155175-0-01 | G-36       |        | 155263-0-01 | L-33       |        |             | G-52     |        |
|             | H-46- 3    |        | 155176-0-01 | G-37       |        | 155264-0-01 | L-34       |        |             | H-24     |        |
|             | H-47- 3    |        | 155177-0-00 | G-64       |        |             |            |        | 181995-0-01 | L-34- 2  |        |
|             | H-49- 3    |        | 155178-0-01 | G-65       |        |             |            |        | 181995-0-02 | P- 2- 7  |        |
|             | H-50- 3    |        | 155181-0-01 | J- 5       |        | 155269-0-01 | L-31       |        | 210973-0-01 | Z-37     |        |
| 155103-0-01 | H-45- 4    |        |             |            |        | 155270-0-01 | L- 9       |        | 211964-0-01 | Z-47- 6  |        |
|             | H-46- 4    |        |             |            |        |             |            |        |             |          |        |
|             | H-47- 4    |        |             |            |        | 155272-0-01 | L-29       |        | 148797-0-01 | P-11-10  |        |
|             | H-49- 4    |        | 155185-0-01 | J- 1       |        |             |            |        | 155324-0-01 | Z-47     |        |
|             | H-50- 4    |        | 155186-0-00 | J- 3       |        | 155282-0-01 | L-10       |        | 155325-0-01 | Z-47-10  |        |
| 155104-0-01 | H-46       |        | 155188-0-01 | J- 8       |        | 155284-0-01 | L- 7       |        | 155326-0-01 | Z-47- 9  |        |
| 155106-0-01 | H-38       |        | 155190-0-01 | J-21       |        | 155286-0-01 | L- 1       |        | 155348-0-00 | G-61     |        |
| 155109-0-01 | H-51       |        | 155192-0-01 | J-17       |        | 155290-0-00 | L- 3       |        | 155539-0-00 | N- 2     |        |
| 155111-0-01 | H-52       |        | 155193-0-01 | J-12       |        | 155291-0-01 | L- 4       |        | 155547-0-02 | P- 1     |        |
| 155112-0-01 | H-53       |        |             | Z-13       |        | 155292-0-01 | L-22       |        | 156062-0-01 | H-45     |        |
| 155113-0-01 | H-54       |        | 155194-0-01 | J-13       |        | 155294-0-00 | L-15       |        | 156066-0-01 | H-46     |        |
| 155114-0-01 | H-55       |        | 155195-0-01 | J-15       |        | 155295-0-01 | L-16       |        | 156195-0-01 | H-49     |        |
| 155115-0-01 | H-56       |        | 155196-0-01 | P-11       |        | 155296-0-00 | L-41       |        | 156197-0-01 | H-50     |        |
| 155116-0-01 | H-47       |        | 155197-0-01 | P-11- 1    |        | 155297-0-00 | L-42       |        | 156199-0-01 | H-47     |        |
| 155117-0-01 | H-49       |        | 155198-0-01 | P-11- 5    |        | 155298-0-00 | L-43       |        |             |          |        |
| 155118-0-01 | H-57       |        | 155199-0-01 | P-11- 8    |        | 155299-0-00 | L-53       |        |             |          |        |
| 155120-0-01 | H-50       |        |             |            |        | 155300-0-00 | L-52       |        |             |          |        |
| 155121-0-01 | H-48       |        | 155201-0-01 | P-11- 6    |        | 155301-0-01 | L-46       |        |             |          |        |
| 155123-0-01 | H-39       |        | 155202-0-01 | P-11- 4    |        | 155302-0-01 | L-56       |        |             |          |        |
| 155124-0-01 | H-40       |        | 155203-0-01 | P-11- 2    |        | 155303-0-01 | L-59       |        |             |          |        |
| 155125-0-01 | G-45       |        | 155205-0-01 | P-13       |        | 155304-0-01 | K- 9       |        |             |          |        |
|             |            |        | 155207-0-01 | N-14       |        | 155305-0-01 | K- 7       |        |             |          |        |
|             |            |        |             |            |        | 155306-0-01 | K- 5       |        |             |          |        |
|             |            |        |             |            |        | 155307-0-01 | K- 3       |        |             |          |        |
|             |            |        | 155212-0-01 | N-11       |        | 155309-0-01 | K- 1       |        |             |          |        |
| 155132-0-01 | G-45- 9    |        | 155213-0-01 | N-11- 8    |        | 155310-0-01 | K- 2       |        |             |          |        |
| 155133-0-01 | G-45-10    |        | 155214-0-00 | N-11- 8- 1 |        | 155311-0-01 | K-29       |        |             |          |        |
|             |            |        | 155215-0-00 | N-11- 8- 3 |        | 155312-0-01 | K-30       |        |             |          |        |
|             |            |        | 155216-0-00 | N-11- 1    |        | 155313-0-01 | K-35       |        |             |          |        |
|             |            |        | 155217-0-01 | N-11- 4    |        | 155314-0-01 | K-11       |        |             |          |        |
| 155137-0-01 | G-45- 1- 3 |        | 155218-0-01 | N-11- 3    |        | 155316-0-01 | K-57       |        |             |          |        |
| 155138-0-01 | G-59       |        | 155219-0-00 | N- 3       |        | 155318-0-01 | K-39       |        |             |          |        |
| 155139-0-01 | G-57       |        | 155220-0-00 | N- 6       |        | 155320-0-01 | Z- 5       |        |             |          |        |
| 155140-0-01 | G- 4       |        | 155222-0-01 | N- 4       |        | 155321-0-00 | Z-36       |        |             |          |        |
| 155141-0-00 | G- 6       |        | 155223-0-01 | N- 1       |        | 155322-0-01 | Z-17       |        |             |          |        |
| 155142-0-00 | G-10       |        | 155224-0-01 | N- 9       |        | 155323-0-00 | Z-43       |        |             |          |        |
| 155143-0-00 | G-16       |        | 155225-0-01 | D- 3       |        | 155327-0-01 | Q- 1       |        |             |          |        |
| 155144-0-01 | G- 1       |        |             | E- 2       |        | 155329-0-01 | P- 1- 7    |        |             |          |        |
| 155145-0-00 | G- 2       |        | 155228-0-01 | D- 5       |        | 155330-0-01 | P- 1- 7- 1 |        |             |          |        |
| 155146-0-01 | G-50       |        | 155229-0-00 | D- 1       |        | 155340-0-01 | A-95       |        |             |          |        |
|             |            |        | 155230-0-00 | D- 7       |        | 155516-0-01 | D- 4       |        |             |          |        |
| 155151-0-00 | G-63       |        | 155231-0-01 | D- 8       |        |             | E- 3       |        |             |          |        |
| 155152-0-01 | G-53       |        | 155238-0-00 | D- 9       |        |             | F-29       |        |             |          |        |
| 155153-0-00 | G-48       |        | 155240-0-01 | D-11       |        |             | G-26       |        |             |          |        |
| 155154-0-01 | G-12       |        | 155241-0-01 | D-14       |        | 155519-0-01 | A-30       |        |             |          |        |
| 155155-0-01 | G-11       |        | 155244-0-01 | E- 4       |        | 155520-0-00 | A-30- 2    |        |             |          |        |
| 155156-0-01 | G-18       |        | 155245-0-00 | E- 1       |        | 155533-0-01 | F-10       |        |             |          |        |

