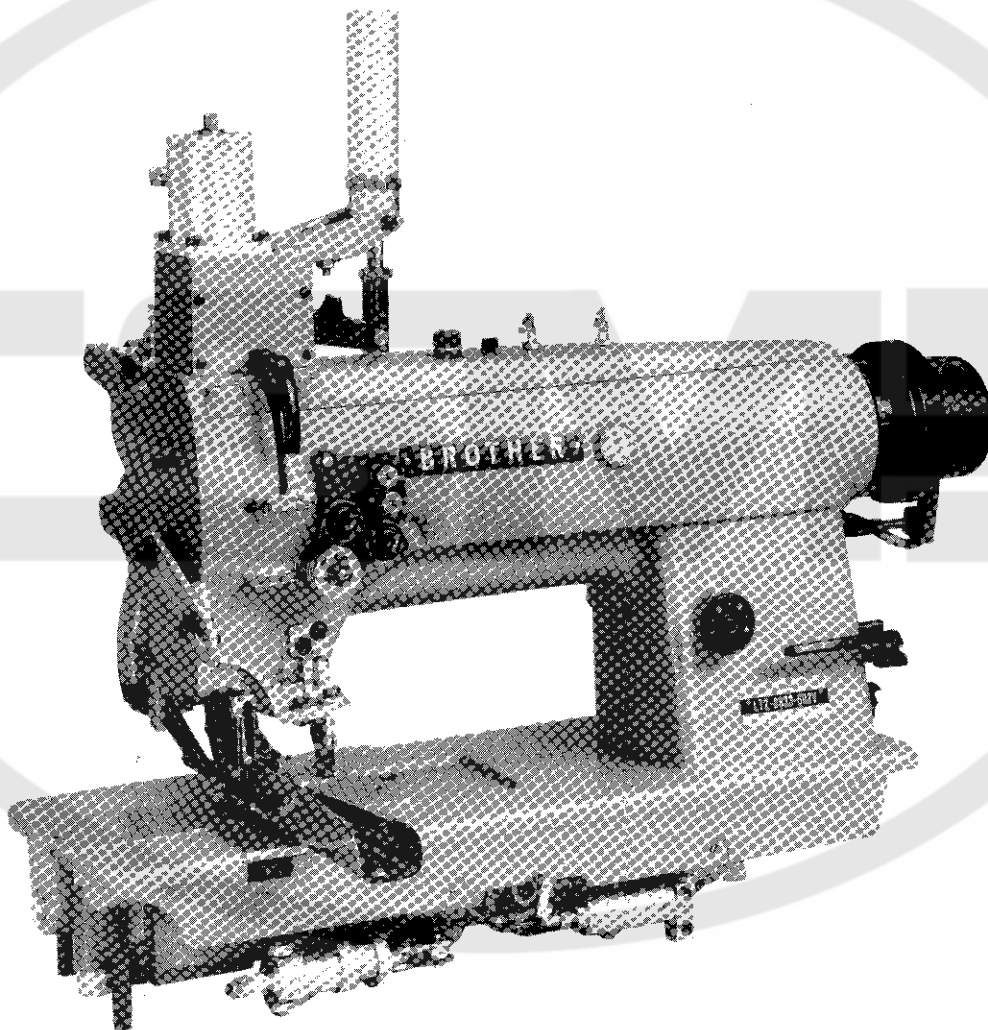


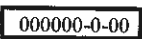
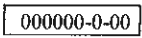
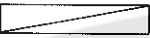
**PARTS BOOK**  
**FOR**  
**BROTHER LT2-B833**



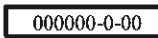
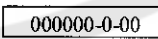
**SEMI-AUTOMATIC POCKET WELTING MACHINE**

**BROTHER INDUSTRIES, LTD.**  
**NAGOYA, JAPAN**

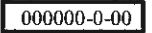
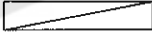
## Notes for using this parts book

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 separate parts list (page 16) also,  means the Parts No. for Model 600V.
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. This book was prepared based on information available in May, 1981.
5. Parts are subject to changes in design without prior notice.

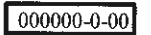
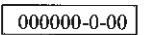
## Anmerkungen zum Gebrauch dieses Stücklistebuches

1. Dieses Buch bezieht sich auf die Nähmaschinen mit derselben Kennungsnummer wie auf diesem Buchumschlag (oder auf dem Korrekturblatt).
2. Wenn in der Stücknummer oder Gerätesatznummer Spalte das Zeichen  oder  steht, schlagen Sie bitte bei der gesonderte Stückliste (Seite 16) nach und nodr dazu gibt  Zeichen für Gerätesatznummer von Model 600V.
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. Dieses Buch basiert auf den Informationen vom Mai, 1981.
5. Modelländerungen sind vorbehalten.

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

1. Ce manuel est destiné aux machines à coudre ayant le même numéro de plaque montré sur la couverture de ce manuel (ou sur la feuille de corrections).
2. Si le symbole  ou  est présent dans la colonne "N° de pièce" ou dans la colonne "N° de ensemble", se référer à la liste de pièces annexe (page 16). Et  indique le numéro de pièce pour Modèle 600V.
3. Le symbole  dans la colonne "N° de pièce" signifie que la pièce ne peut être fournie. Si, dans la colonne "N° jeu de pces", il y a un numéro de nomenclature, la pièce peut être commandée comme faisant partie d'un jeu de pièces. Donc, pour toute commande, veuillez spécifier le n° du jeu de pièces.
4. Ce manuel a été fait d'après les renseignements valables au mois de Mai, 1981.
5. Les pièces peuvent être sujettes à des modifications sans préavis.

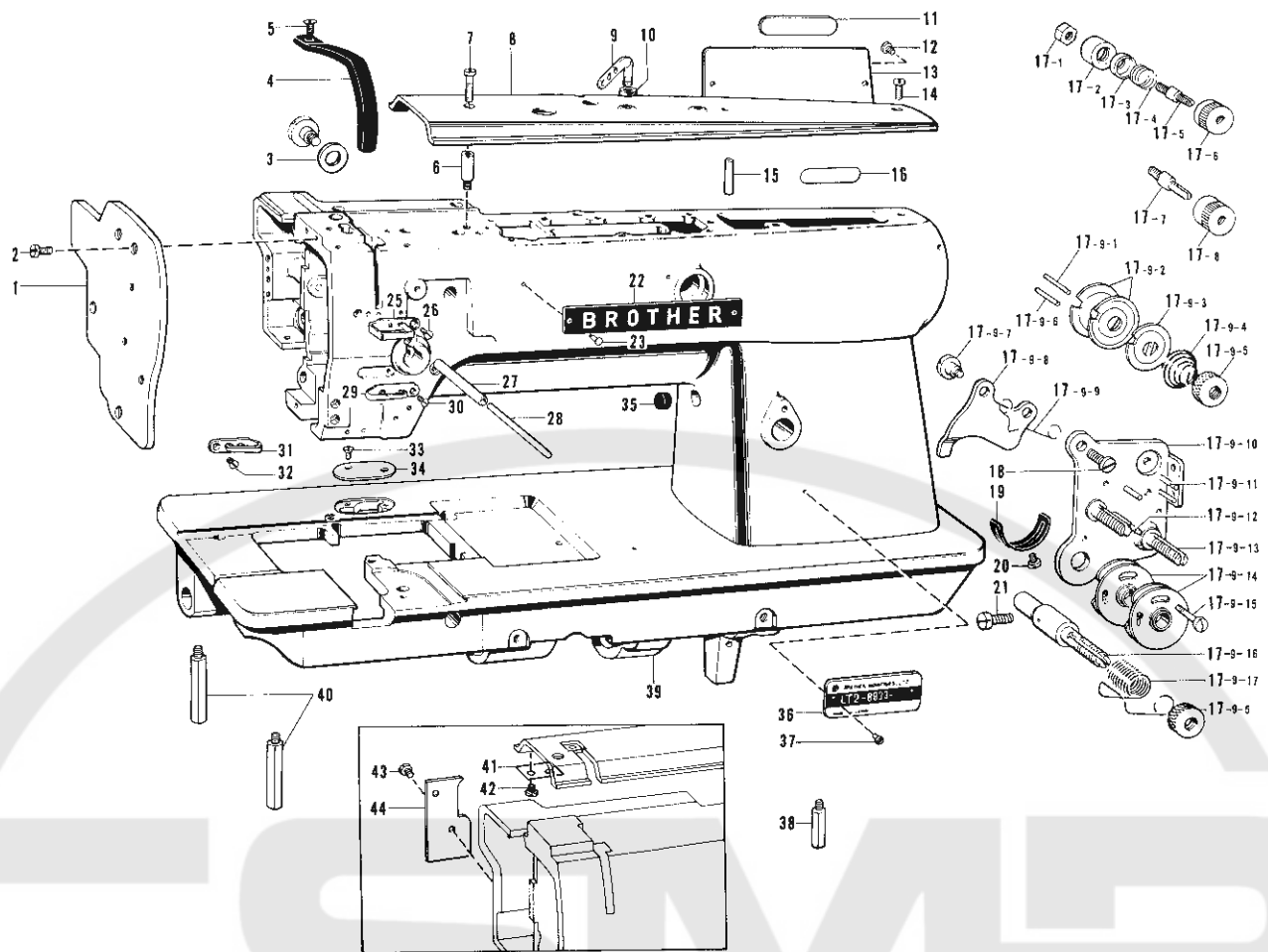
## Notas para usar este Libro de Piezas

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 arratas).
2. De haber un símbolo  o el  en la "Número de Pieza" o en la columna del "Número de Juego", habrá que ver la lista de piezas separada (página 16) también,  significa el Nro. de repuestos modelo 600V.
3. El símbolo , que se encuentra en la columna del "Número de Pieza", quiere decir que no se dispone de dicha pieza sola. Cuando, empero, hay un número en la columna del "Número de Juego", se podrá ordenar la pieza con todo el juego. Por lo tanto, será mejor hacer el pedido recurriendo al número del juego respectivo.
4. Este libro ha sido compilado basándose en los datos de que se disponía en Mayo, 1981.
5. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

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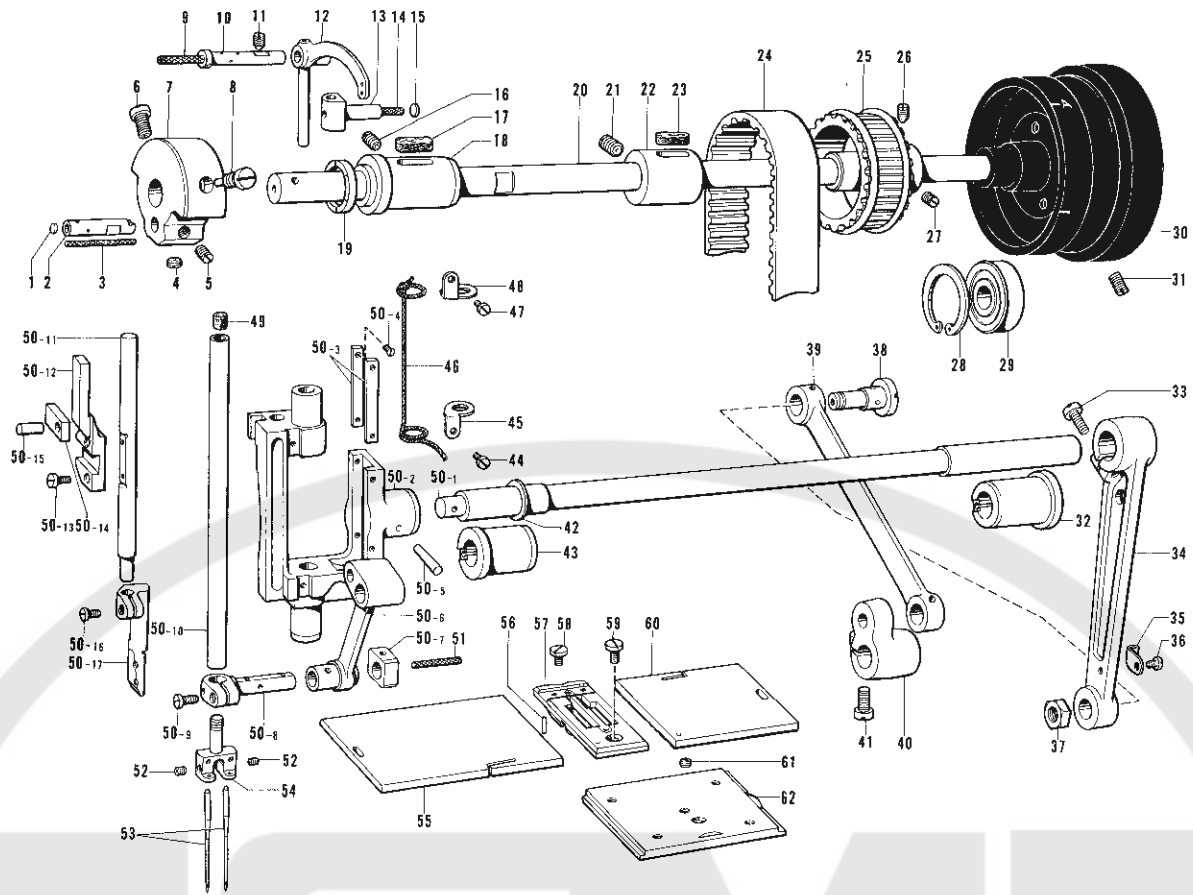
|                                                         |    |
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## A. Machine Body and Threading



| Ref. No.  | Name of Parts           | Q'ty | Parts No.   | Assembly No.                                                | Ref. No.  | Name of Parts            | Q'ty | Parts No.   | Assembly No.                                               |
|-----------|-------------------------|------|-------------|-------------------------------------------------------------|-----------|--------------------------|------|-------------|------------------------------------------------------------|
| A- 1      | Face Plate              | 1    | 155873-0-01 |                                                             | A-17-9-11 | Pin                      | 3    |             |                                                            |
| A- 2      | Screw 3.57 x 8          | 4    | 009670-8-12 |                                                             | A-17-9-12 | Pin                      | 2    |             |                                                            |
| A- 3      | Collar                  | 1    | 148605-0-01 |                                                             | A-17-9-13 | Tension Stud             | 2    |             |                                                            |
| A- 4      | Thread Take-up Cover    | 1    | 156058-0-01 |                                                             | A-17-9-14 | Spring Guide             | 2    | 108254-0-01 | A-17-9<br>Tension Control<br>Plate Assembly<br>181756-0-01 |
| A- 5      | Screw 4.76              | 1    | 107231-0-02 |                                                             | A-17-9-15 | Set Screw 2.38           | 1    | 144682-0-01 |                                                            |
| A- 6      | Stud (B)                | 1    | 147856-0-01 |                                                             | A-17-9-16 | Tension Stud             | 1    | 144680-0-01 |                                                            |
| A- 7      | Screw 4.37 x 8          | 1    | 009680-8-13 |                                                             | A-17-9-17 | Thread Take-up Spring    | 1    | 144681-0-01 |                                                            |
| A- 8      | Arm Top Cover           | 1    | 155872-0-01 |                                                             | A-18      | Screw 4.37 x 10          | 1    | 009681-0-14 |                                                            |
| A- 9      | Top Cover Thread Guide  | 2    | 140527-0-01 |                                                             | A-19      | Stopper                  | 1    | 112709-0-01 |                                                            |
| A-10      | Nut 5.95                | 2    | 150553-0-03 |                                                             | A-20      | Screw 3.57 x 6           | 1    | 009670-6-12 |                                                            |
| A-11      | Name Plate              | 1    |             |                                                             | A-21      | Screw 3.57               | 1    | 100064-0-02 |                                                            |
| A-12      | Screw 3.57 x 6          | 2    | 009670-6-12 |                                                             | A-22      | Name Plate               | 1    |             |                                                            |
| A-13      | Rear Cover              | 1    | 112566-0-03 |                                                             | A-23      | Pin                      | 2    |             |                                                            |
| A-14      | Screw 4.37 x 10         | 1    | 009681-0-13 |                                                             | A-25      | Arm Thread Guide Upper   | 1    | 108266-0-01 |                                                            |
| A-15      | Pipe                    | 1    | 112696-0-00 |                                                             | A-26      | Screw 3.57               | 1    | 108960-0-04 |                                                            |
| A-16      | Parts Book Number Plate | 1    |             |                                                             | A-27      | Tension Release Pipe     | 1    | 148604-0-00 |                                                            |
| A-17-1    | Nut 3.57                | 2    | 021670-1-02 |                                                             | A-28      | Tension Release Bar      | 1    | 112713-0-01 |                                                            |
| A-17-2    | Thread Guide Bracket    | 2    | 148666-0-01 |                                                             | A-29      | Arm Thread Guide, Center | 1    | 112658-0-01 |                                                            |
| A-17-3    | Thread Disc             | 2    | 148667-0-01 |                                                             | A-30      | Screw 3.57               | 1    | 108960-0-04 |                                                            |
| A-17-4    | Thread Guide Spring     | 2    | 148668-0-01 | A-17<br>Upper Tension<br>Control<br>Assembly<br>148805-0-01 | A-31      | Arm Thread Guide, Center | 1    | 112658-0-01 |                                                            |
| A-17-5    | Thread Guide Screw A    | 1    | 148662-0-01 |                                                             | A-32      | Screw 3.57               | 1    | 108960-0-04 |                                                            |
| A-17-6    | Thread Guide Screw A    | 1    | 148664-0-01 |                                                             | A-33      | Screw 3.18               | 2    | 149288-0-01 |                                                            |
| A-17-7    | Thread Guide Screw B    | 1    | 148663-0-01 |                                                             | A-34      | Cover                    | 1    | 148614-0-01 |                                                            |
| A-17-8    | Thread Guide Screw B    | 1    | 148665-0-01 |                                                             | A-35      | Cap                      | 1    | 143766-0-01 |                                                            |
| A-17-9- 1 | Pin                     | 1    | 148670-0-01 |                                                             | A-36      | Model Plate B833         | 1    |             |                                                            |
| A-17-9- 2 | Tension Disc            | 4    | 108263-0-01 |                                                             | A-37      | Pin                      | 2    |             |                                                            |
| A-17-9- 3 | Tension Disc Washer     | 2    | 148669-0-01 |                                                             | A-38      | Bed Leg Small            | 1    | 149179-0-01 |                                                            |
| A-17-9- 4 | Tension Spring          | 2    | 118317-0-01 |                                                             | A-39      | Arm Bed                  | 1    |             |                                                            |
| A-17-9- 5 | Tension Control Nut     | 3    | 108265-0-01 | A-17-9<br>Tension Control<br>Plate Assembly<br>181756-0-01  | A-40      | Bed Leg                  | 2    | 148611-0-01 |                                                            |
| A-17-9- 6 | Pin                     | 1    | 148671-0-01 |                                                             | A-41      | Arm Top Sub-cover        | 1    |             |                                                            |
| A-17-9- 7 | Stud Screw 3.57         | 2    | 112712-0-01 |                                                             | A-42      | Screw 3.18 x 4           | 2    |             |                                                            |
| A-17-9- 8 | Tension Release Plate   | 1    | 144683-0-01 |                                                             | A-43      | Screw 3.57 x 6           | 2    |             |                                                            |
| A-17-9- 9 | Arm Thread Guide Upper  | 1    | 118320-0-01 |                                                             | A-44      | Bracket Cover            | 1    |             |                                                            |
| A-17-9-10 | Thread Tension Plate    | 1    |             |                                                             |           |                          |      |             |                                                            |

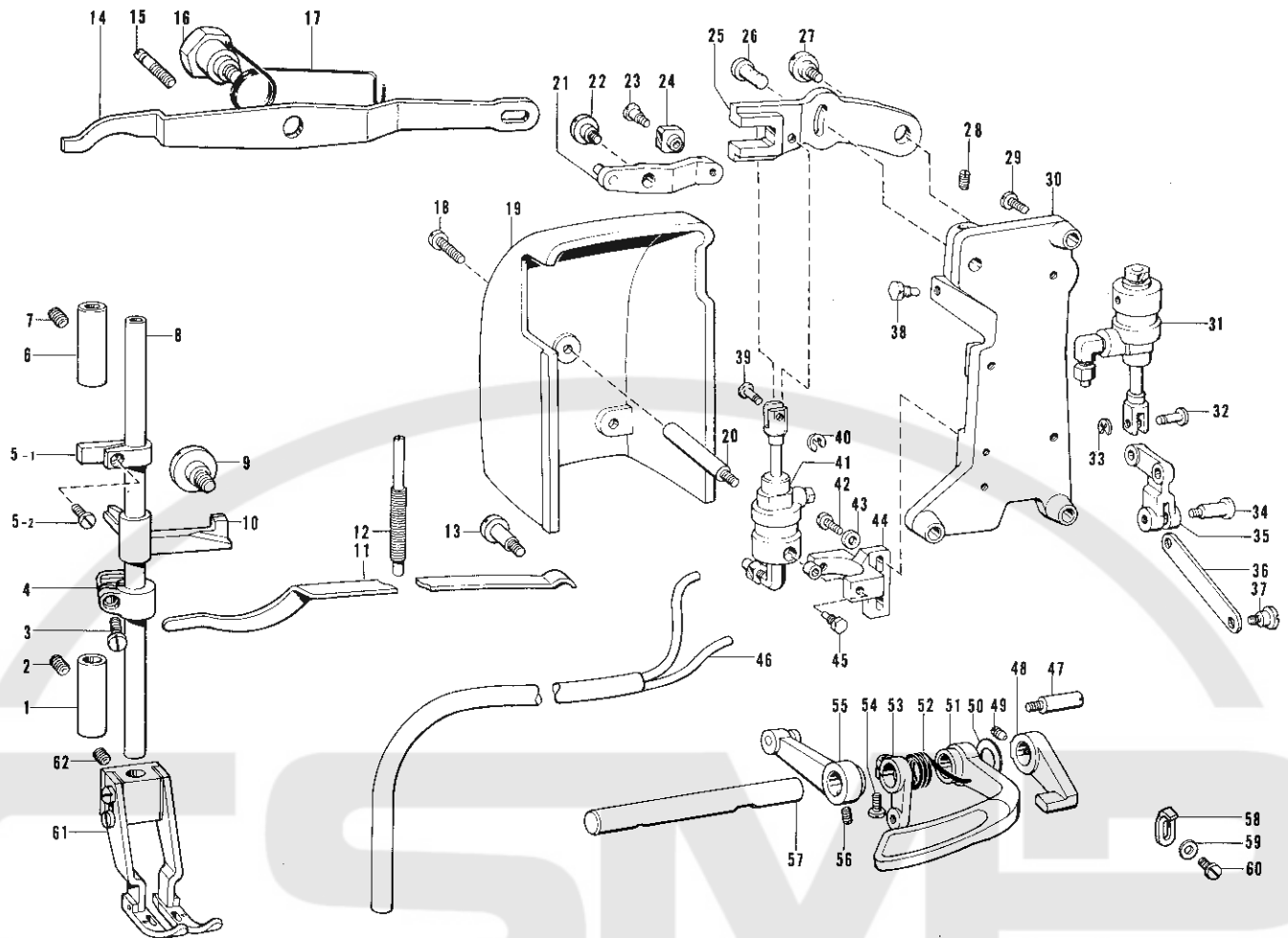
## B. Upper Shaft · Needle Bar and Rocking Mechanism



| Ref. No. | Name of Parts                       | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts                      | Q'ty | Parts No.   | Assembly No. |
|----------|-------------------------------------|------|-------------|--------------|----------|------------------------------------|------|-------------|--------------|
| B- 1     | Pusher                              | 1    | 113014-0-00 |              | B-40     | Needle Bar Connecting Crank        | 1    | 112598-0-01 |              |
| B- 2     | Needle Bar Crank                    | 1    | 112577-0-01 |              | B-41     | Screw 6.35 x 18                    | 1    | 009781-8-12 |              |
| B- 3     | wick                                | 1    | 112735-0-00 |              | B-42     | Spacer                             | 1    | 155879-0-01 |              |
| B- 4     | Screw 6.35                          | 1    | 101706-0-01 |              | B-43     | Needle Bar Rock Shaft Bushing Left | 1    | 112594-0-01 |              |
| B- 5     | Screw 6.35                          | 1    | 100251-0-01 |              | B-44     | Screw                              | 1    | 009660-4-12 |              |
| B- 6     | Screw 7.14                          | 1    | 146141-0-01 |              | B-45     | Wick Supporter (D)                 | 1    | 143675-0-01 |              |
| B- 7     | Counter Weight                      | 1    | 112574-0-00 |              | B-46     | Wick 300 mm                        | 1    | 116699-0-00 |              |
| B- 8     | Screw 7.14                          | 1    | 100250-0-01 |              | B-47     | Screw 3.18 x 4                     | 1    | 009660-4-12 |              |
| B- 9     | Wick 12 mm                          | 1    | 112735-0-01 |              | B-48     | Wick Supporter (U)                 | 1    | 143674-0-01 |              |
| B-10     | Stud                                | 1    | 112579-0-01 |              | B-49     | Cap                                | 1    | 148394-0-00 |              |
| B-11     | Screw 5.95                          | 1    | 151605-0-01 |              | B-50- 1  | Needle Bar Rock Shaft              | 1    |             |              |
| B-12     | Thread Take-up Lever                | 1    | 112578-0-01 |              | B-50- 2  | Needle Bar Support                 | 1    | 153008-0-01 |              |
| B-13     | Thread Take-up Lever Slide Block    | 1    | 118171-0-01 |              | B-50- 3  | Guide Plate                        | 2    |             |              |
| B-14     | Wick                                | 1    | 114693-0-01 |              | B-50- 4  | Screw 2.37                         | 4    | 102731-0-04 |              |
| B-15     | Pusher                              | 1    | 113024-0-00 |              | B-50- 5  | Pin                                | 1    | 107030-0-01 |              |
| B-16     | Screw 5.95                          | 1    | 013761-4-10 |              | B-50- 6  | Needle Bar Crank Rod               | 1    | 112593-0-01 |              |
| B-17     | Felt                                | 1    | 112734-0-01 |              | B-50- 7  | Needle Bar Guide Slide Block       | 1    | 112721-0-01 |              |
| B-18     | Upper Shaft Bushing Left            | 1    | 112573-0-01 |              | B-50- 8  | Needle Bar Clamp                   | 1    | 143581-0-01 |              |
| B-19     | Thrust Ring                         | 1    | 112576-0-01 |              | B-50- 9  | Screw 3.57 x 8                     | 1    | 009670-8-12 |              |
| B-20     | Upper Shaft                         | 1    | 143576-0-01 |              | B-50-10  | Needle Bar                         | 1    | 153009-0-01 |              |
| B-21     | Screw                               | 1    | 013761-4-10 |              | B-50-11  | Cutter Bar                         | 1    | 153013-0-01 |              |
| B-22     | Upper Shaft Bushing Center          | 1    | 114680-0-01 |              | B-50-12  | Cutter Bar Guide                   | 1    | 143645-0-01 |              |
| B-23     | Felt                                | 1    | 100248-0-01 |              | B-50-13  | Screw 3.57 x 8                     | 2    | 009670-8-12 |              |
| B-24     | Timing Belt                         | 1    | 112586-0-01 |              | B-50-14  | Cutter Bar Guide Block             | 1    |             |              |
| B-25     | Timing Belt Wheel Upper Assembly    | 1    | 180157-0-01 |              | B-50-15  | Stud 5.5 x 11                      | 1    | 143637-0-01 |              |
| B-26     | Screw 6.35 x 12                     | 1    | 015771-2-12 |              | B-50-16  | Screw 3.57 x 7                     | 1    | 009670-7-12 |              |
| B-27     | Screw 6.35 x 12                     | 1    | 013771-2-12 |              | B-50-17  | Cutter Holder Bar                  | 1    | 155878-0-01 |              |
| B-28     | Stop Ring                           | 1    | 112760-0-01 |              | B-51     | Wick                               | 1    | 112728-0-01 |              |
| B-29     | Bearing 6204 VV.                    | 1    | 072620-4-60 |              | B-52     | Screw 3.18                         | 2    | 146427-0-01 |              |
| B-30     | Pulley                              | 1    | 154506-0-01 |              | B-53     | Needle MT x 190                    | 2    | 153011-0-16 |              |
| B-31     | Screw                               | 2    | 013761-4-10 |              | B-54     | Needle Clamp 10                    | 1    | 153021-0-01 |              |
| B-32     | Needle Bar Rock Shaft Bushing Right | 1    | 112764-0-01 |              | B-55     | Slide Plate, Left                  | 1    | 112606-0-01 |              |
| B-33     | Screw 6.35                          | 1    | 105351-0-02 |              | B-56     | Pin                                | 1    | 113386-0-00 |              |
| B-34     | Needle Bar Connecting Rod           | 1    | 112595-0-00 |              | B-57     | Needle Plate Assembly              | 1    | 155935-0-01 |              |
| B-35     | Wick Supporter                      | 1    | 112739-0-01 |              | B-58     | Set Screw 3.57                     | 1    | 112751-0-02 |              |
| B-36     | Set Screw 3.57                      | 1    | 009670-5-12 |              | B-59     | Screw 4.37                         | 1    | 105955-0-01 |              |
| B-37     | Nut 7.94                            | 2    | 101268-0-03 |              | B-60     | Slide Plate, Right                 | 1    | 112607-0-01 |              |
| B-38     | Needle Bar Rock Link Stud           | 2    | 112597-0-01 |              | B-61     | Screw 5.16                         | 1    | 116010-0-01 |              |
| B-39     | Needle Bar Rock Link                | 1    | 112596-0-01 |              | B-62     | Slide Plate                        | 1    | 148599-0-01 |              |

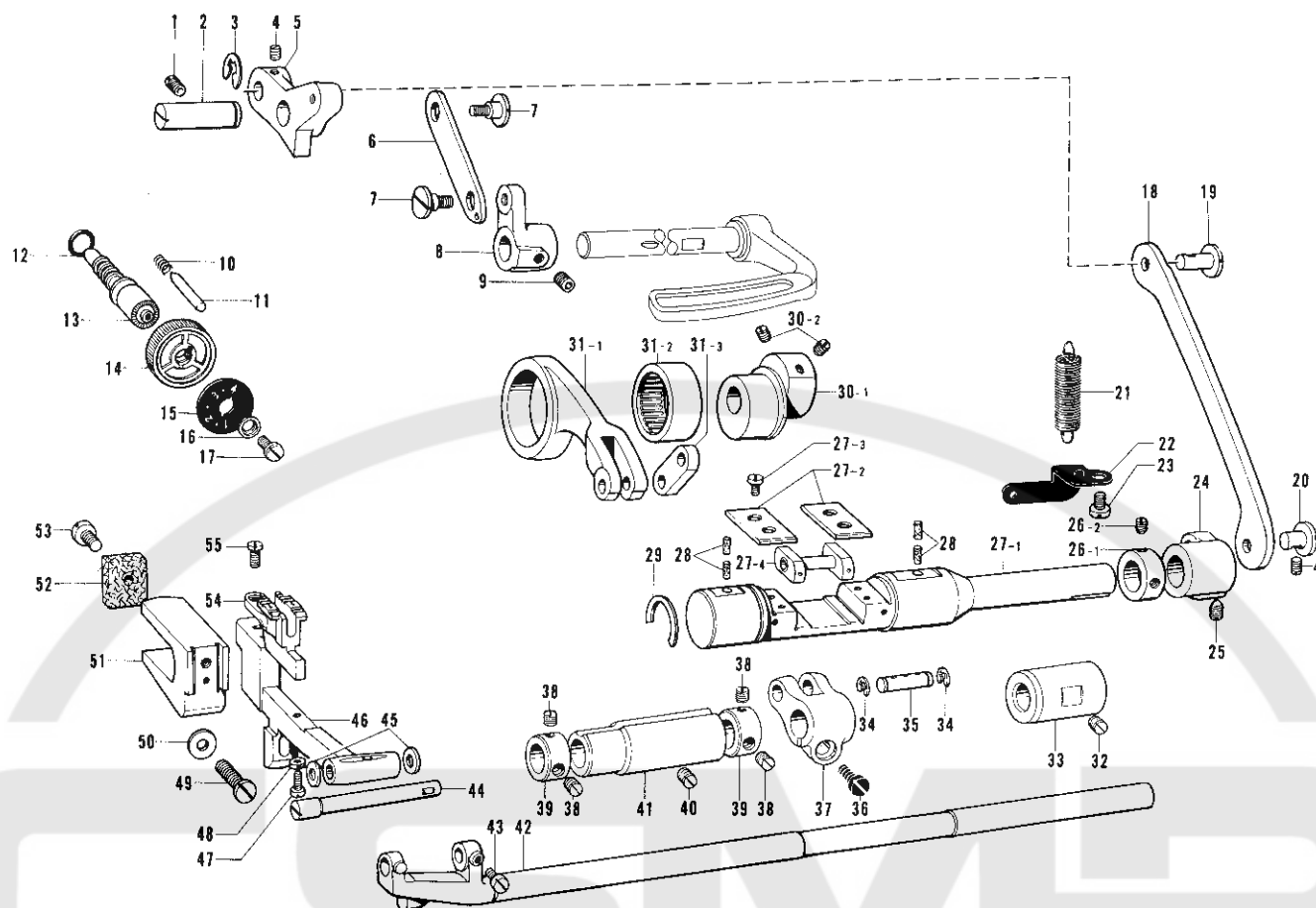
B-50  
Needle Bar  
Rock Shaft  
Assembly  
155877-0-01

## C. Presser Food and Reverse Mechanism



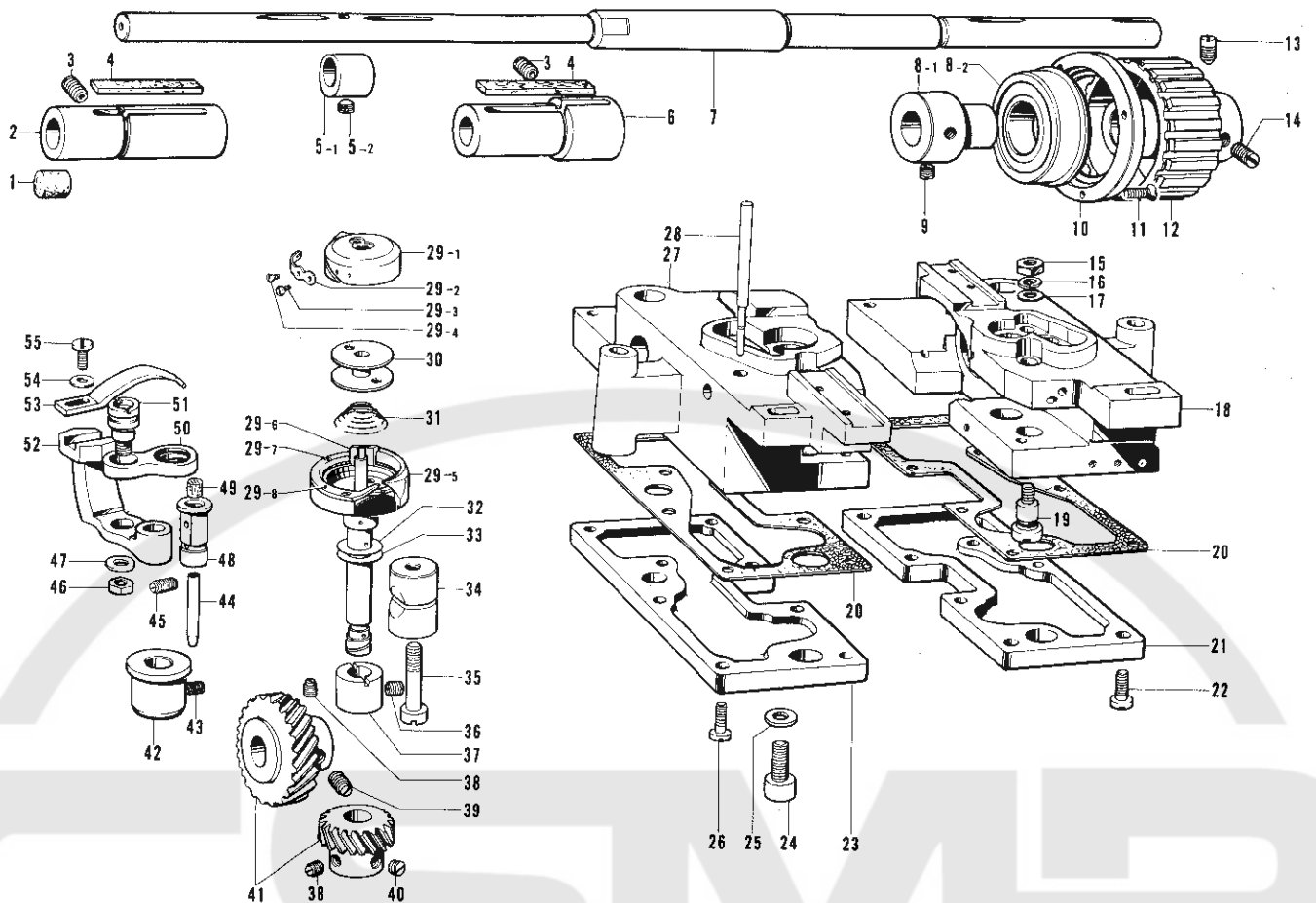
| Ref. No. | Name of Parts              | Q'ty | Parts No.   | Assembly No.                                        | Ref. No. | Name of Parts                | Q'ty | Parts No.   | Assembly No. |
|----------|----------------------------|------|-------------|-----------------------------------------------------|----------|------------------------------|------|-------------|--------------|
| C-1      | Presser Bar Bushing, Lower | 1    | 112763-0-01 |                                                     | C-31     | Reverse Cylinder             | 1    | 149031-0-01 |              |
| C-2      | Screw 5.95                 | 1    | 151604-0-01 |                                                     | C-32     | Pin                          | 1    | 146153-0-01 |              |
| C-3      | Screw 4.37 x 12            | 1    | 009681-2-14 |                                                     | C-33     | Stop Ring E-4                | 1    | 048040-3-42 |              |
| C-4      | Presser Bar Bracket        | 1    | 155881-0-01 |                                                     | C-34     | Stud Screw 4.76              | 2    | 148764-0-01 |              |
| C-5-1    | Presser Bar Guide          | 1    |             | C-5<br>Presser Bar<br>Guide Assembly<br>148835-0-01 | C-35     | Reverse Link Lever           | 1    | 149033-0-01 |              |
| C-5-2    | Set Screw 4.37 x 7         | 1    | 009680-7-12 |                                                     | C-36     | Reverse Link                 | 1    | 149063-0-01 |              |
| C-6      | Presser Bar Bushing, Upper | 1    | 112615-0-01 |                                                     | C-37     | Stud Screw 4.76              | 1    | 110171-0-01 |              |
| C-7      | Set Screw 5.95             | 1    | 100260-0-01 |                                                     | C-38     | Screw                        | 2    | 140620-0-01 |              |
| C-8      | Presser Bar                | 1    | 155880-0-01 |                                                     | C-39     | Pin                          | 1    | 146153-0-01 |              |
| C-9      | Presser Bar Lifter Guide   | 1    | 112631-0-01 |                                                     | C-40     | Stop Ring E-4                | 1    | 048040-3-42 |              |
| C-10     | Presser Bar Lifter         | 1    | 155882-0-01 |                                                     | C-41     | Presser Foot Lifter Cylinder | 1    | 149019-0-01 |              |
| C-11     | Presser Plate Spring       | 1    | 118170-1-01 |                                                     | C-42     | Screw 4.76 x 16              | 2    | 009711-6-12 |              |
| C-12     | Presser Adjusting Screw    | 1    | 112624-0-01 |                                                     | C-43     | Washer 4.76                  | 2    | 025710-2-32 |              |
| C-13     | Stud Screw 6.35            | 1    | 112623-0-01 |                                                     | C-44     | Cylinder Supporter           | 1    | 149023-0-01 |              |
| C-14     | Knee Lifter Lever          | 1    | 156015-0-01 |                                                     | C-45     | Screw                        | 2    | 140620-0-01 |              |
| C-15     | Stopper Screw              | 1    | 112630-0-01 |                                                     | C-46     | Air Tube Assembly            | 1    | 155883-0-01 |              |
| C-16     | Stud Screw 6.35            | 1    | 112626-0-01 |                                                     | C-47     | Screw                        | 1    | 141748-0-01 |              |
| C-17     | Knee Lifter Lever Spring   | 1    | 149768-0-01 |                                                     | C-48     | Preverse Lever (B)           | 1    | 148607-0-02 |              |
| C-18     | Screw 4.76 x 12            | 2    | 009711-2-12 |                                                     | C-49     | Screw 6.35 x 10              | 1    | 015771-0-12 |              |
| C-19     | Cylinder Cover             | 1    | 149035-0-02 |                                                     | C-50     | Thrust Ring                  | 1    | 149554-0-01 |              |
| C-20     | Cylinder Cover Stud        | 2    | 149034-0-01 |                                                     | C-51     | Preverse Lever               | 1    | 148606-0-03 |              |
| C-21     | Lever Assembly             | 1    | 149027-0-01 |                                                     | C-52     | Spring                       | 1    | 148608-0-01 |              |
| C-22     | Screw 6.35                 | 1    | 149991-0-01 |                                                     | C-53     | Reverse Lever Shaft Arm      | 1    | 148640-0-01 |              |
| C-23     | Screw                      | 1    | 141494-0-01 |                                                     | C-54     | Screw 4.76 x 14              | 1    | 009711-4-12 |              |
| C-24     | Slide Block Assembly       | 1    | 149025-0-01 |                                                     | C-55     | Feed Regulator Link          | 1    | 148638-0-01 |              |
| C-25     | Presser Foot Lifter Lever  | 1    | 149024-0-01 |                                                     | C-56     | Screw 5.95 x 6               | 1    | 014760-6-22 |              |
| C-26     | Pin                        | 1    | 118713-0-01 |                                                     | C-57     | Reverse Lever Shaft          | 1    | 148609-0-01 |              |
| C-27     | Stud Screw 6.35            | 1    | 141439-0-01 |                                                     | C-58     | Reverse Lever Stopper        | 1    | 149282-0-01 |              |
| C-28     | Set Screw 4.76             | 1    | 013710-7-12 |                                                     | C-59     | Washer                       | 1    | 100645-0-03 |              |
| C-29     | Screw 6.35 x 14            | 3    | 009782-5-12 |                                                     | C-60     | Screw 4.37 x 10              | 1    | 009681-0-12 |              |
| C-30     | Cylinder Base              | 1    | 149030-0-01 |                                                     | C-61     | Presser Foot Assembly 10     | 1    | 155937-0-01 |              |
|          |                            |      |             |                                                     | C-62     | Screw 4.37 x 4               | 1    | 014680-4-22 |              |

## D. Feed Mechanism



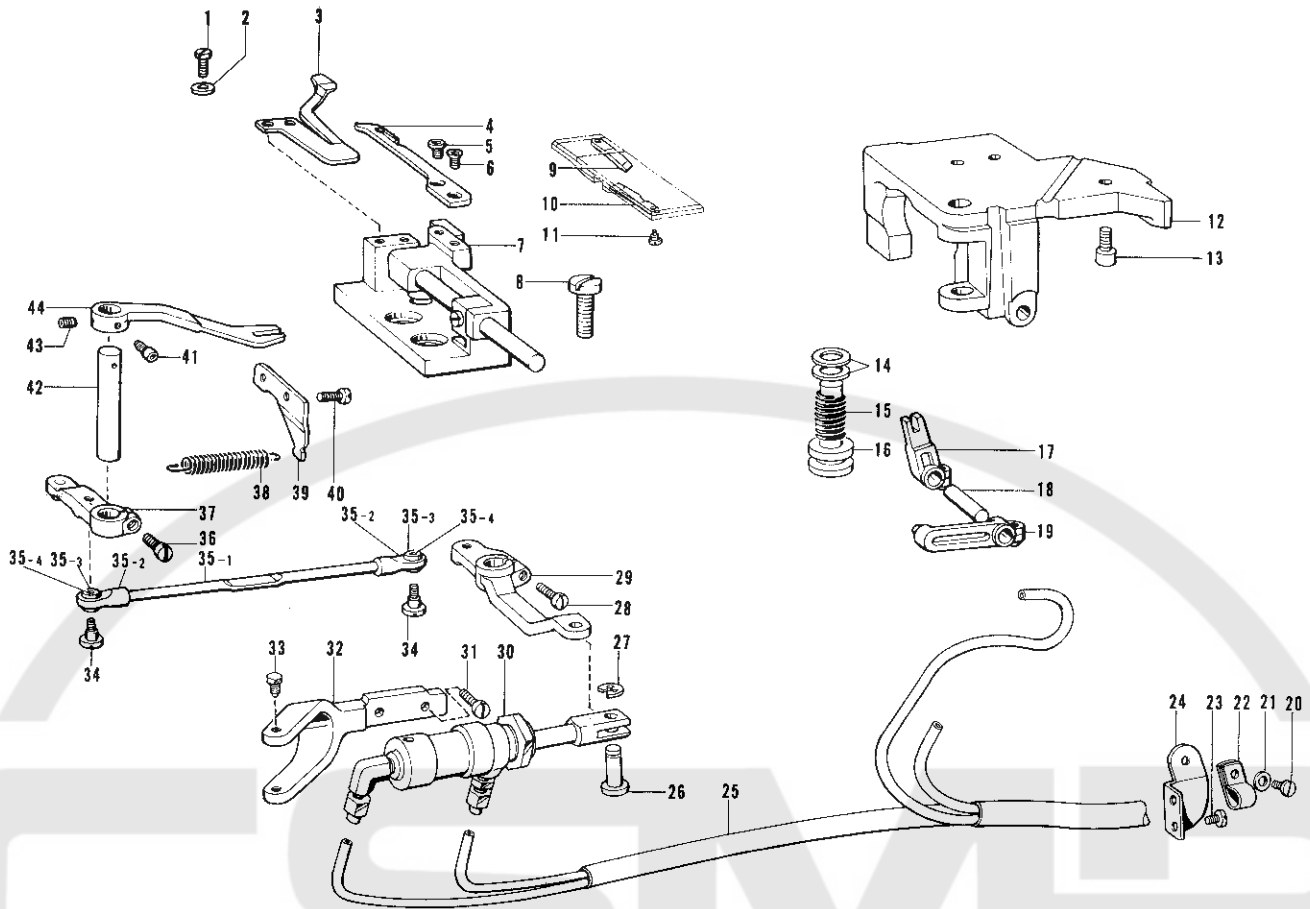
| Ref. No. | Name of Parts                  | Q'ty | Parts No.   | Assembly No.                                   | Ref. No. | Name of Parts                        | Q'ty | Parts No.   | Assembly No.                                  |
|----------|--------------------------------|------|-------------|------------------------------------------------|----------|--------------------------------------|------|-------------|-----------------------------------------------|
| D- 1     | Screw 5.95                     | 1    | 151605-0-01 |                                                | D-29     | Stop Ring                            | 1    | 143597-0-01 |                                               |
| D- 2     | Feed Regulator Stud            | 1    | 148488-0-01 |                                                | D-30- 1  | Eccentric Wheel                      | 1    |             | D-30 Eccentric Wheel with Screw 148802-0-01   |
| D- 3     | Stop Ring E-7                  | 1    | 048070-3-42 |                                                | D-30- 2  | Screw 5.95                           | 2    | 151605-0-01 |                                               |
| D- 4     | Screw 4.37                     | 2    | 151602-0-01 |                                                | D-31- 1  | Level Feed Connecting Rod            | 1    | 148496-0-00 | D-31 Feed Connecting Rod Assembly 148801-0-01 |
| D- 5     | Feed Regulator Stud            | 1    | 148489-0-01 |                                                | D-31- 2  | Needle Bearing                       | 1    | 118954-0-00 |                                               |
| D- 6     | Connecting Plate               | 1    | 118746-0-01 |                                                | D-31- 3  | Level Feed Connecting Link           | 1    | 143613-0-01 |                                               |
| D- 7     | Stud Screw 4.37                | 2    | 112072-0-01 |                                                | D-32     | Screw 5.95                           | 1    | 013761-4-10 |                                               |
| D- 8     | Feed Regulator Bracket         | 1    | 118747-0-01 |                                                | D-33     | Feed Rock Shaft Bushing Right        | 1    | 148493-0-01 |                                               |
| D- 9     | Screw 5.95                     | 1    | 118853-0-01 |                                                | D-34     | Stop Ring E-6                        | 2    | 048060-3-42 |                                               |
| D-10     | Notch Spring                   | 1    | 100328-0-01 |                                                | D-35     | Stud                                 | 1    | 143616-0-01 |                                               |
| D-11     | Pin                            | 1    | 145502-0-01 |                                                | D-36     | Screw 6.35 x 18                      | 1    | 009781-8-12 |                                               |
| D-12     | Packing                        | 1    | 108549-0-01 |                                                | D-37     | Ruffling Plate Lifter Lever Assembly | 1    | 148495-0-01 |                                               |
| D-13     | Length Control Screw           | 1    | 143598-0-01 |                                                | D-38     | Screw 6.35                           | 4    | 101706-0-01 |                                               |
| D-14     | Length Control Dial            | 1    | 153168-0-01 |                                                | D-39     | Feed Rock Shaft Collar               | 2    | 113074-0-01 |                                               |
| D-15     | Feed Regulator Plate           | 1    | 151508-0-01 |                                                | D-40     | Screw 5.95                           | 1    | 013761-4-10 |                                               |
| D-16     | Length Control Supporter       | 1    | 142746-0-02 |                                                | D-41     | Feed Rock Shaft Bushing Left         | 1    | 148494-0-01 |                                               |
| D-17     | Set Screw 4.76                 | 1    | 142747-0-02 |                                                | D-42     | Feed Rock Shaft                      | 1    | 148492-0-01 |                                               |
| D-18     | Feed Regulator Connecting Link | 1    | 148487-0-01 |                                                | D-43     | Screw 4.37                           | 1    | 104908-0-04 |                                               |
| D-19     | Pin                            | 1    | 118713-0-01 |                                                | D-44     | Feed Bar Shaft                       | 1    | 148491-0-01 |                                               |
| D-20     | Pin                            | 1    | 148501-0-01 |                                                | D-45     | Thrust Ring                          | 2    | 143591-0-01 |                                               |
| D-21     | Spring                         | 1    | 143609-0-01 |                                                | D-46     | Feed Bar                             | 1    | 148490-0-01 |                                               |
| D-22     | Spring Hook Plate              | 1    | 143610-0-01 |                                                | D-47     | Screw 3.18                           | 1    | 107278-0-02 |                                               |
| D-23     | Screw 4.37 x 8                 | 1    | 009710-8-12 |                                                | D-48     | Nut 3.18                             | 1    | 021660-1-03 |                                               |
| D-24     | Feed Regulator Shaft Arm       | 1    | 148499-0-01 |                                                | D-49     | Screw 5.95 x 14                      | 1    | 009761-4-12 |                                               |
| D-25     | Screw 5.95                     | 1    | 118853-0-01 |                                                | D-50     | Washer 6                             | 1    | 025060-1-32 |                                               |
| D-26- 1  | Collar                         | 1    |             | D-26 Collar Assembly 180321-0-01               | D-51     | Feed Bar Fork                        | 1    | 112656-0-01 |                                               |
| D-26- 2  | Screw 6.35                     | 2    | 101706-0-01 |                                                | D-52     | Felt                                 | 1    | 112759-0-01 |                                               |
| D-27- 1  | Feed Regulator Shaft           | 1    |             | D-27 Feed Regulator Shaft Assembly 148771-0-01 | D-53     | Screw 3.57                           | 1    | 100242-0-03 |                                               |
| D-27- 2  | Guide Plate                    | 2    |             |                                                | D-54     | Feed Dog 10                          | 1    | 155946-0-01 |                                               |
| D-27- 3  | Screw 4.37 x 10                | 4    | 009681-0-12 |                                                | D-55     | Screw 3.18                           | 2    | 116283-0-01 |                                               |
| D-27- 4  | Slide Block                    | 1    |             |                                                |          |                                      |      |             |                                               |
| D-28     | Felt                           | 4    | 148743-0-01 |                                                |          |                                      |      |             |                                               |

## E. Lower Shaft · Rotary Hook Mechanism



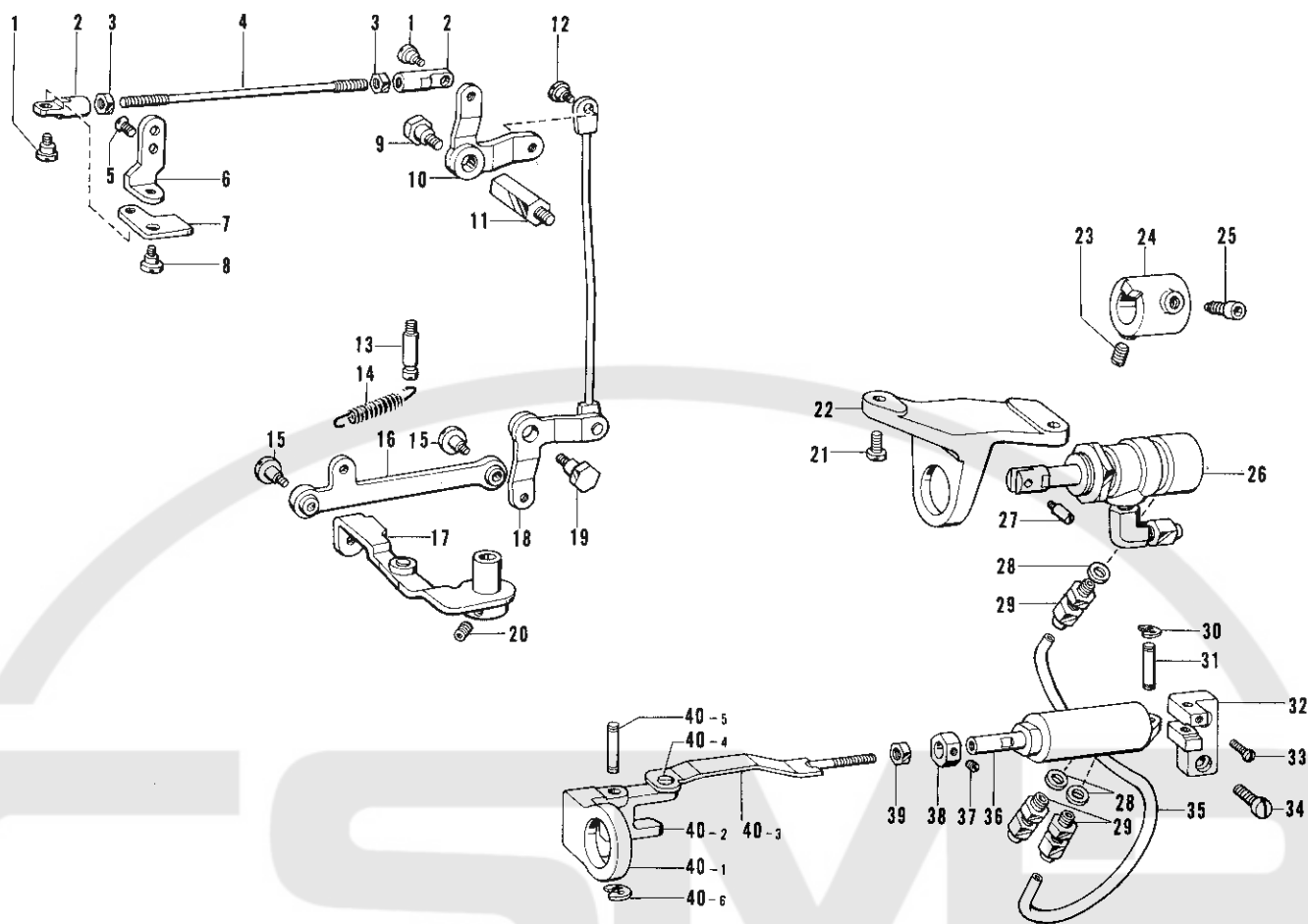
| Ref. No. | Name of Parts                         | Q'ty | Parts No.   | Assembly No.                                              | Ref. No. | Name of Parts                    | Q'ty | Parts No.   | Assembly No.                                                      |
|----------|---------------------------------------|------|-------------|-----------------------------------------------------------|----------|----------------------------------|------|-------------|-------------------------------------------------------------------|
| E- 1     | Felt                                  | 1    | 115249-0-01 |                                                           | E-29- 2  | Adjusting Spring                 | 2    | 154518-0-01 |                                                                   |
| E- 2     | Rotary Hook Base Bushing Left         | 1    | 148503-0-00 |                                                           | E-29- 3  | Screw                            | 2    | 154520-0-01 |                                                                   |
| E- 3     | Screw 5.95                            | 2    | 151604-0-01 |                                                           | E-29- 4  | Adjusting Screw                  | 2    | 154519-0-01 |                                                                   |
| E- 4     | Felt (Right)                          | 2    | 113362-0-01 |                                                           | E-29- 5  | Outer Rotary Hook Assembly       | 2    |             | E-29<br>Cap Equipped<br>Rotary Hook<br>(8832-400C)<br>154524-0-01 |
| E- 5- 1  | Vertical Feed Eccentric               | 1    |             | E-5 Vertical<br>Feed Eccentric<br>Assembly<br>148804-0-01 | E-29- 6  | Inner Rotary Hook Assembly       | 2    |             |                                                                   |
| E- 5- 2  | Screw 6.35                            | 1    | 112684-0-01 |                                                           | E-29- 7  | Screw                            | 4    | 151027-0-01 |                                                                   |
| E- 6     | Rotary Hook Base Bushing Right        | 1    | 148502-0-00 |                                                           | E-29- 8  | Inner Rotary Hook Presser        | 2    | 151021-0-01 |                                                                   |
| E- 7     | Lower Shaft                           | 1    | 148505-0-01 |                                                           | E-30     | Bobbin                           | 2    | 148603-0-01 |                                                                   |
| E- 8- 1  | Ball Bearing                          | 1    | 112666-0-00 | E-8<br>Bearing Holder<br>Assembly<br>112698-0-01          | E-31     | Spring                           | 2    | 148602-0-01 |                                                                   |
| E- 8- 2  | Bushing                               | 1    | 112667-0-01 |                                                           | E-32     | Spacer 0.2                       | 4    | 153243-0-01 |                                                                   |
| E- 9     | Screw 6.35 x 7                        | 2    | 013780-7-10 |                                                           | E-33     | Spacer 0.3                       | 2    | 153244-0-01 |                                                                   |
| E-10     | Presser                               | 1    | 112668-0-01 |                                                           | E-34     | Pinch Sleeve                     | 2    | 112699-0-01 |                                                                   |
| E-11     | Screw 3.57 x 12                       | 3    | 005671-2-12 |                                                           | E-35     | Screw 5.95                       | 2    | 112700-0-01 |                                                                   |
| E-12     | Timing Belt Wheel Lower Assembly      | 1    | 180164-0-01 |                                                           | E-36     | Screw 4.76                       | 2    | 107794-0-01 |                                                                   |
| E-13     | Screw 6.35                            | 1    | 148821-0-01 |                                                           | E-37     | Rotary Hook Shaft Bushing, Upper | 2    | 112690-0-01 |                                                                   |
| E-14     | Screw 6.35 x 12                       | 1    | 013771-2-12 |                                                           | E-38     | Screw 6.35                       | 2    | 112684-0-01 |                                                                   |
| E-15     | Nut 4.37                              | 2    | 105234-0-01 |                                                           | E-39     | Screw 6.35                       | 4    | 100251-0-01 |                                                                   |
| E-16     | Washer 2.4.37                         | 2    | 028680-2-43 |                                                           | E-40     | Screw 6.35                       | 6    | 101706-0-01 |                                                                   |
| E-17     | Washer                                | 2    | 100645-0-03 |                                                           | E-41     | Spiral Gear Assembly             | 2    | 180949-0-01 |                                                                   |
| E-18     | Rotary Hook Base Right                | 1    | 148480-0-01 |                                                           | E-42     | Rotary Hook Shaft Bushing, Lower | 2    | 112687-0-01 |                                                                   |
| E-19     | Oil Adjusting Screw                   | 2    | 112756-0-01 |                                                           | E-43     | Screw 4.76                       | 2    | 107794-0-01 |                                                                   |
| E-20     | Packing                               | 2    | 112755-0-01 |                                                           | E-44     | Pipe                             | 1    | 112696-0-00 |                                                                   |
| E-21     | Rotary Hook Base Oil Reservoir, Right | 1    | 112702-0-01 |                                                           | E-45     | Screw 4.76                       | 2    | 153483-0-01 |                                                                   |
| E-22     | Screw 4.76                            | 8    | 100320-0-02 |                                                           | E-46     | Nut 4.76                         | 2    | 110161-0-06 |                                                                   |
| E-23     | Oil Reservoir, Left                   | 1    | 112686-0-01 |                                                           | E-47     | Washer 4.76                      | 2    | 025710-2-32 |                                                                   |
| E-24     | Screw 6.35                            | 2    | 149569-0-01 |                                                           | E-48     | Stud Shaft                       | 2    | 112695-0-01 |                                                                   |
| E-25     | Washer 6.35                           | 2    | 025770-2-32 |                                                           | E-49     | Felt                             | 2    | 107155-0-01 |                                                                   |
| E-26     | Screw 4.76                            | 8    | 100320-0-02 |                                                           | E-50     | Opener Link                      | 2    | 112692-0-01 |                                                                   |
| E-27     | Rotary Hook Base Left                 | 1    | 148481-0-01 |                                                           | E-51     | Stud                             | 2    | 148005-0-01 |                                                                   |
| E-28     | Oil Gauge                             | 2    | 148728-0-01 |                                                           | E-52     | Opener Crank                     | 2    | 112694-0-01 |                                                                   |
| E-29- 1  | Bobbin Case                           | 2    | 154517-0-01 | E-29 1545240-01                                           | E-53     | Bobbin Case Opener               | 2    | 112697-0-01 |                                                                   |
|          |                                       |      |             |                                                           | E-54     | Washer                           | 2    | 105161-0-02 |                                                                   |
|          |                                       |      |             |                                                           | E-55     | Screw 3.57 x 8                   | 2    | 009670-8-12 |                                                                   |

## F. Thread Trimmer Mechanism



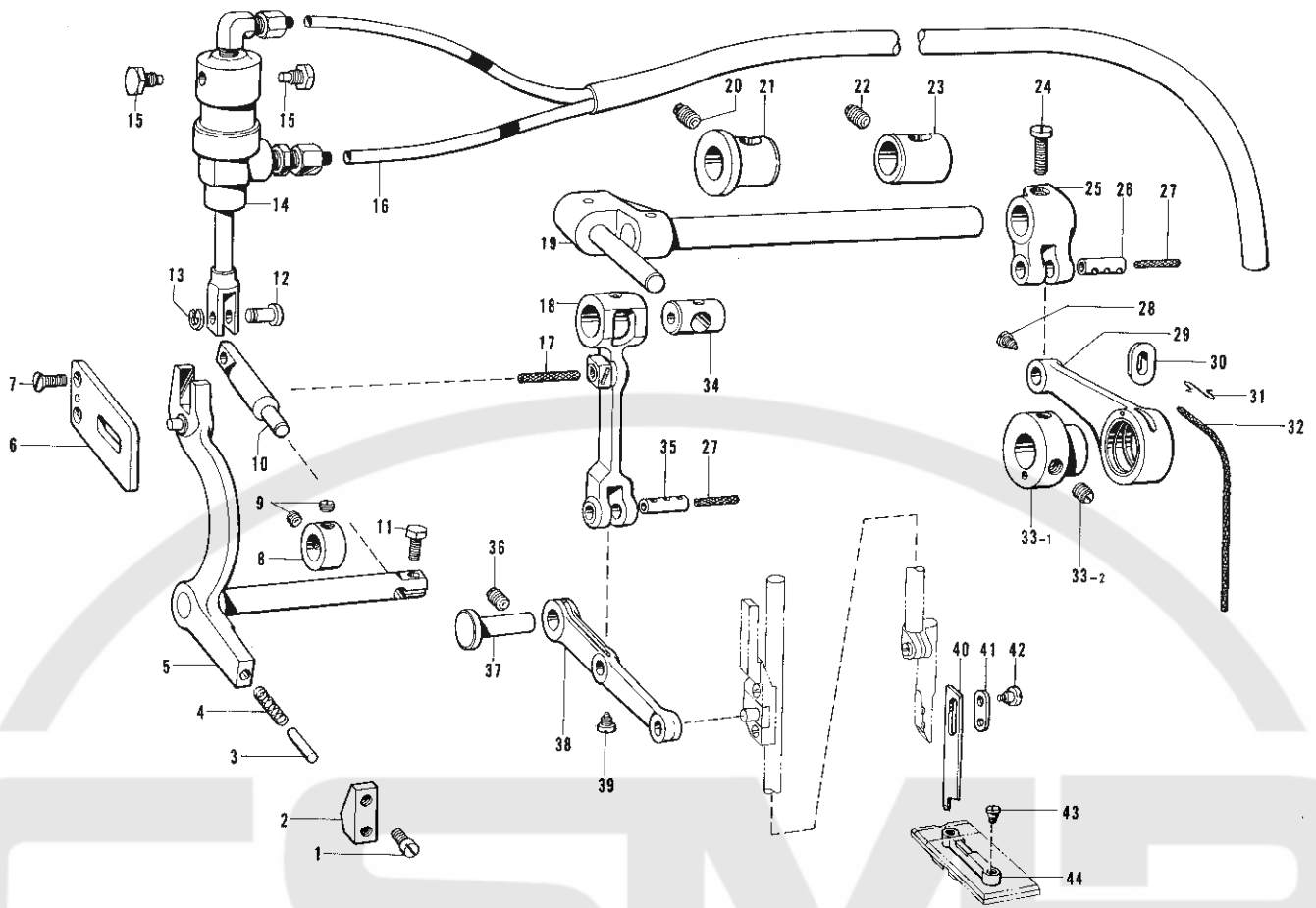
| Ref. No. | Name of Parts                       | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts            | Q'ty | Parts No.                                               | Assembly No. |
|----------|-------------------------------------|------|-------------|--------------|----------|--------------------------|------|---------------------------------------------------------|--------------|
| F- 1     | Screw 2.38 x 4                      | 4    | 001630-4-02 |              | F-25     | Air Tube Assembly        | 1    | 149284-0-01                                             |              |
| F- 2     | Washer 2.38                         | 4    | 025630-1-32 |              | F-26     | Pin                      | 1    | 146153-0-01                                             |              |
| F- 3     | Thread Presser Plate                | 2    | 148593-0-00 |              | F-27     | Stop Ring E-4            | 1    | 048040-3-42                                             |              |
| F- 4     | Moveable Knife                      | 2    | 148535-0-01 |              | F-28     | Screw 4.76 x 14          | 1    | 009711-4-12                                             |              |
| F- 5     | Screw 4.37                          | 2    | 148536-0-01 |              | F-29     | Thread Trimming Lever    | 1    | 149042-0-01                                             |              |
| F- 6     | Screw 4.37                          | 2    | 148537-0-01 |              | F-30     | Thread Trimming Cylinder | 1    | 149037-0-01                                             |              |
| F- 7     | Movable Knife Base Assembly         | 2    | 148531-0-01 |              | F-31     | Screw 4.76 x 16          | 2    | 009711-6-12                                             |              |
| F- 8     | Screw 4.76 x 8                      | 4    | 009710-8-12 |              | F-32     | Cylinder Supporter       | 1    | 149040-0-01                                             |              |
| F- 9     | Fixed Knife Right                   | 1    | 149169-0-01 |              | F-33     | Screw                    | 2    | 140620-0-01                                             |              |
| F-10     | Fixed Knife Left                    | 1    | 148538-0-01 |              | F-34     | Screw                    | 2    | 141494-0-01                                             |              |
| F-11     | Stud Screw 2.38                     | 2    | 148539-0-01 |              | F-35- 1  | Knife Connecting Bar     | 1    | F-35<br>Knife Connecting<br>Bar Assembly<br>149697-0-01 |              |
| F-12     | Movable Knife Base Bracket          | 1    | 149036-0-01 |              | F-35- 2  | Joint                    | 2    |                                                         |              |
| F-13     | Bolt 6 x 16                         | 3    | 018061-6-22 |              | F-35- 3  | Bushing                  | 2    |                                                         |              |
| F-14     | Rubber                              | 2    | 148559-0-00 |              | F-35- 4  | Spring Pin AW2           | 2    |                                                         |              |
| F-15     | Spring                              | 1    | 148555-0-01 |              | F-36     | Screw 4.76 x 14          | 1    | 009711-4-12                                             |              |
| F-16     | Knife Main Lever Shaft              | 1    | 148547-0-01 |              | F-37     | Knife Rock Lever Left    | 1    | 148577-0-01                                             |              |
| F-17     | Knife Driving                       | 1    | 181713-0-01 |              | F-38     | Spring                   | 1    | 148571-0-01                                             |              |
| F-18     | Knife Driving Lever Shaft 6.35 x 27 | 1    | 148557-0-01 |              | F-39     | Spring Hook Left         | 1    | 148580-0-01                                             |              |
| F-19     | Knife Driving Pin Lever             | 1    | 181712-0-01 |              | F-40     | Screw 4.76 x 10          | 2    | 009711-0-12                                             |              |
| F-20     | Screw 3.57 x 8                      | 1    | 009670-8-12 |              | F-41     | Screw 6.35 x 6           | 2    | 014770-6-22                                             |              |
| F-21     | Washer                              | 1    | 105161-0-02 |              | F-42     | Knife Rock Arm Shaft     | 2    | 148573-0-01                                             |              |
| F-22     | Nylon Clamp                         | 1    | 149287-0-00 |              | F-43     | Screw 6.35               | 2    | 148574-0-01                                             |              |
| F-23     | Screw 3.57 x 8                      | 2    | 009670-8-12 |              | F-44     | Knife Rock Arm           | 2    | 148572-0-01                                             |              |
| F-24     | Tube Holder                         | 1    | 149286-0-01 |              |          |                          |      |                                                         |              |

## G. Tension Release Mechanism



| Ref. No. | Name of Parts                        | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts           | Q'ty | Parts No.                                         | Assembly No. |
|----------|--------------------------------------|------|-------------|--------------|----------|-------------------------|------|---------------------------------------------------|--------------|
| G- 1     | Screw                                | 2    | 148768-0-01 |              | G-23     | Screw 6.35 x 6          | 1    | 014770-6-22                                       |              |
| G- 2     | Joint                                | 2    | 148632-0-01 |              | G-24     | Tension Release Cam     | 1    | 149061-0-01                                       |              |
| G- 3     | Nut                                  | 2    | 021670-1-02 |              | G-25     | Screw 6.35              | 1    | 148574-0-01                                       |              |
| G- 4     | Tension Release Rod Upper            | 1    | 148631-0-01 |              | G-26     | Cylinder                | 1    | 149043-0-01                                       |              |
| G- 5     | Screw 4.37                           | 2    | 117160-0-01 |              | G-27     | Screw                   | 1    | 148546-0-01                                       |              |
| G- 6     | Tension Release Plate                | 1    | 148634-0-01 |              | G-28     | Packing                 | 3    | 146699-0-00                                       |              |
| G- 7     | Tension Release Crank                | 1    | 148635-0-01 |              | G-29     | Male Connector Assembly | 3    | 149241-0-01                                       |              |
| G- 8     | Stud Screw 3.57                      | 1    | 148633-0-01 |              | G-30     | Stop Ring E-3           | 1    | 048030-3-42                                       |              |
| G- 9     | Stud Screw 6.35                      | 1    | 148628-0-01 |              | G-31     | Stud 4 x 23.4           | 1    | 149056-0-01                                       |              |
| G-10     | Tension Release Crank Upper          | 1    | 148630-0-01 |              | G-32     | Cylinder Supporter      | 1    | 149055-0-01                                       |              |
| G-11     | Stud                                 | 1    | 148629-0-01 |              | G-33     | Screw 3.18 x 7          | 1    | 009660-7-12                                       |              |
| G-12     | Stud Screw 4.76                      | 1    | 110171-0-01 |              | G-34     | Screw 4.76              | 2    | 105173-0-04                                       |              |
| G-13     | Spring Hanger                        | 1    | 115177-0-01 |              | G-35     | Air Tube                | 1    | 149283-0-00                                       |              |
| G-14     | Spring                               | 1    | 148654-0-01 |              | G-36     | Transfer Cylinder       | 1    | 149052-0-01                                       |              |
| G-15     | Stud Screw                           | 2    | 123882-0-01 |              | G-37     | Screw 3.18              | 1    | 117666-0-01                                       |              |
| G-16     | Tension Release Connecting Rod Lower | 1    | 148623-0-01 |              | G-38     | Transfer Cylinder Nut   | 1    | 149281-0-01                                       |              |
| G-17     | Tension Release Lever                | 1    | 149050-0-01 |              | G-39     | Nut 3.57                | 1    | 021670-1-02                                       |              |
| G-18     | Tension Release Crank Lower          | 1    | 148625-0-01 |              | G-40- 1  | Valve Lever Supporter   | 1    | G-40<br>Transfer Lever<br>Assembly<br>149058-0-01 |              |
| G-19     | Stud Screw 6.35                      | 1    | 148628-0-01 |              | G-40- 2  | Valve Lever             | 1    |                                                   |              |
| G-20     | Screw 6.35 x 6                       | 2    | 014770-6-22 |              | G-40- 3  | Valve Connecting Rod    | 1    |                                                   |              |
| G-21     | Screw 4.76 x 10                      | 2    | 009711-0-12 |              | G-40- 4  | Pin                     | 1    |                                                   |              |
| G-22     | Tension Release Cylinder Base        | 1    | 149049-0-01 |              | G-40- 5  | Stud 4 x 23.4           | 1    | 149056-0-01                                       |              |
|          |                                      |      |             |              | G-40- 6  | Stop Ring E-3           | 2    | 048030-3-42                                       |              |

## H. Knife Mechanism



| Ref. No. | Name of Parts                            | Q'ty | Parts No.   | Assembly No. | Ref. No. | Name of Parts                | Q'ty | Parts No.                                   | Assembly No. |
|----------|------------------------------------------|------|-------------|--------------|----------|------------------------------|------|---------------------------------------------|--------------|
| H- 1     | Screw 4.37                               | 2    | 104908-0-02 |              | H-24     | Screw 5.56 x 16              | 1    | 009751-6-12                                 |              |
| H- 2     | Transfer Lever Cam                       | 1    | 143654-0-01 |              | H-25     | Upper Knife Rock Arm         | 1    | 153026-0-01                                 |              |
| H- 3     | Transfer Lever Pin                       | 1    | 143655-0-01 |              | H-26     | Stud 6.35 x 17               | 1    | 143625-0-01                                 |              |
| H- 4     | Transfer Lever Spring                    | 1    | 143656-0-01 |              | H-27     | Wick 15 mm                   | 2    | 112293-0-01                                 |              |
| H- 5     | Valve Lever Assembly                     | 1    | 143647-0-01 |              | H-28     | Screw 3.18                   | 1    | 110563-0-01                                 |              |
| H- 6     | Valve Lever Stopper                      | 1    | 143653-0-01 |              | H-29     | Upper Knife Connecting Lever | 1    | 153025-0-01                                 |              |
| H- 7     | Screw 4.76                               | 2    | 107231-0-02 |              | H-30     | Oil Seal                     | 1    | 143676-0-00                                 |              |
| H- 8     | Set Collar                               | 1    | 146581-0-01 |              | H-31     | Clip                         | 1    | 116795-0-00                                 |              |
| H- 9     | Set Screw 5.95                           | 2    | 100260-0-01 |              | H-32     | Wick 110 mm                  | 1    | 153023-0-01                                 |              |
| H-10     | Piston Rod Joint                         | 1    | 155926-0-01 |              | H-33- 1  | Eccentric Wheel              | 1    | H-33 Eccentric Wheel with Screw 153015-0-01 |              |
| H-11     | Bolt 4.37 x 10                           | 1    | 017681-0-14 |              | H-33- 2  | Screw 5.95                   | 2    |                                             |              |
| H-12     | Pin                                      | 1    | 146153-0-01 |              | H-34     | Slide Block Driving Stud     | 1    | 143635-0-00                                 |              |
| H-13     | Stop Ring E-4                            | 1    | 048040-3-42 |              | H-35     | Stud 6.35 x 17               | 1    | 143625-0-01                                 |              |
| H-14     | Upper Knife Cylinder Assembly            | 1    | 155929-0-01 |              | H-36     | Screw 5.95                   | 1    | 151605-0-01                                 |              |
| H-15     | Screw                                    | 2    | 140620-0-01 |              | H-37     | Connecting Lever Shaft       | 1    | 143638-0-01                                 |              |
| H-16     | Air Tube Assembly                        | 1    | 154491-0-01 |              | H-38     | Upper Knife Connecting Lever | 1    | 153029-0-01                                 |              |
| H-17     | Wick 25 mm                               | 1    | 153024-0-00 |              | H-39     | Screw 3.18                   | 1    | 110563-0-01                                 |              |
| H-18     | Upper Knife Connecting Rod Assembly      | 1    | 153017-0-01 |              | H-40     | Upper Knife                  | 1    | 153019-0-01                                 |              |
| H-19     | Upper Knife Rock Shaft                   | 1    | 153027-0-01 |              | H-41     | Upper Knife Presser          | 1    | 143641-0-01                                 |              |
| H-20     | Screw 5.95                               | 1    | 151604-0-01 |              | H-42     | Presser Screw                | 2    | 143642-0-01                                 |              |
| H-21     | Left Bushing for Upper Knife Rock Shaft  | 1    | 143627-0-00 |              | H-43     | Stud Screw 2.38              | 2    | 148539-0-01                                 |              |
| H-22     | Screw 5.95                               | 1    | 151604-0-01 |              | H-44     | Fixed Knife                  | 1    | 155928-0-01                                 |              |
| H-23     | Right Bushing for Upper Knife Rock Shaft | 1    | 143626-0-00 |              |          |                              |      |                                             |              |

This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or actuator. The components are numbered 1 through 62. The diagram shows the following parts and their assembly relationships:

- Top Left Assembly:** Includes a main housing (12) with a mounting bracket (11) and a shaft (13). A separate sub-assembly (4, 5, 6) is shown being attached to the housing.
- Central Assembly:** Features a central body (20-1) with a top cap (17, 18) and a base plate (23). Various internal components like a piston (21) and connecting rods (22, 24) are shown in their relative positions.
- Right Side Assembly:** Shows a vertical shaft (30) with a pulley (36, 37, 38, 39) and a drive mechanism (40, 41, 42, 43, 44, 45, 46, 47) at the bottom.
- Bottom Left Assembly:** Includes a large base plate (60, 61, 62) with a mounting bracket (63, 64, 65, 66) and a shaft (67, 68).
- Other Components:** Various bolts, nuts, and washers (e.g., 1, 2, 3, 7, 8, 9, 10, 14, 15, 16, 19, 20-2, 20-3, 20-4, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59) are shown being inserted into the main components.

Dashed lines indicate the assembly sequence and the relative positions of the parts.

— 9 —

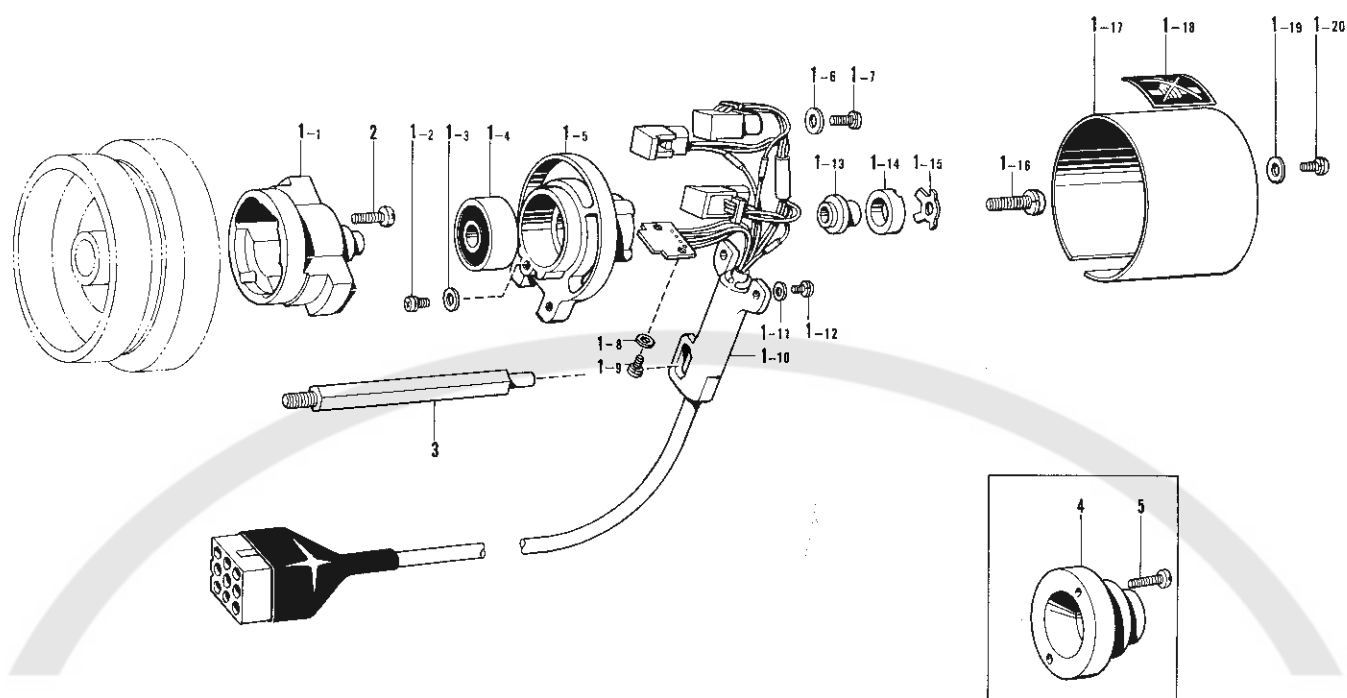
### K. Lubrication

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

BROTHER

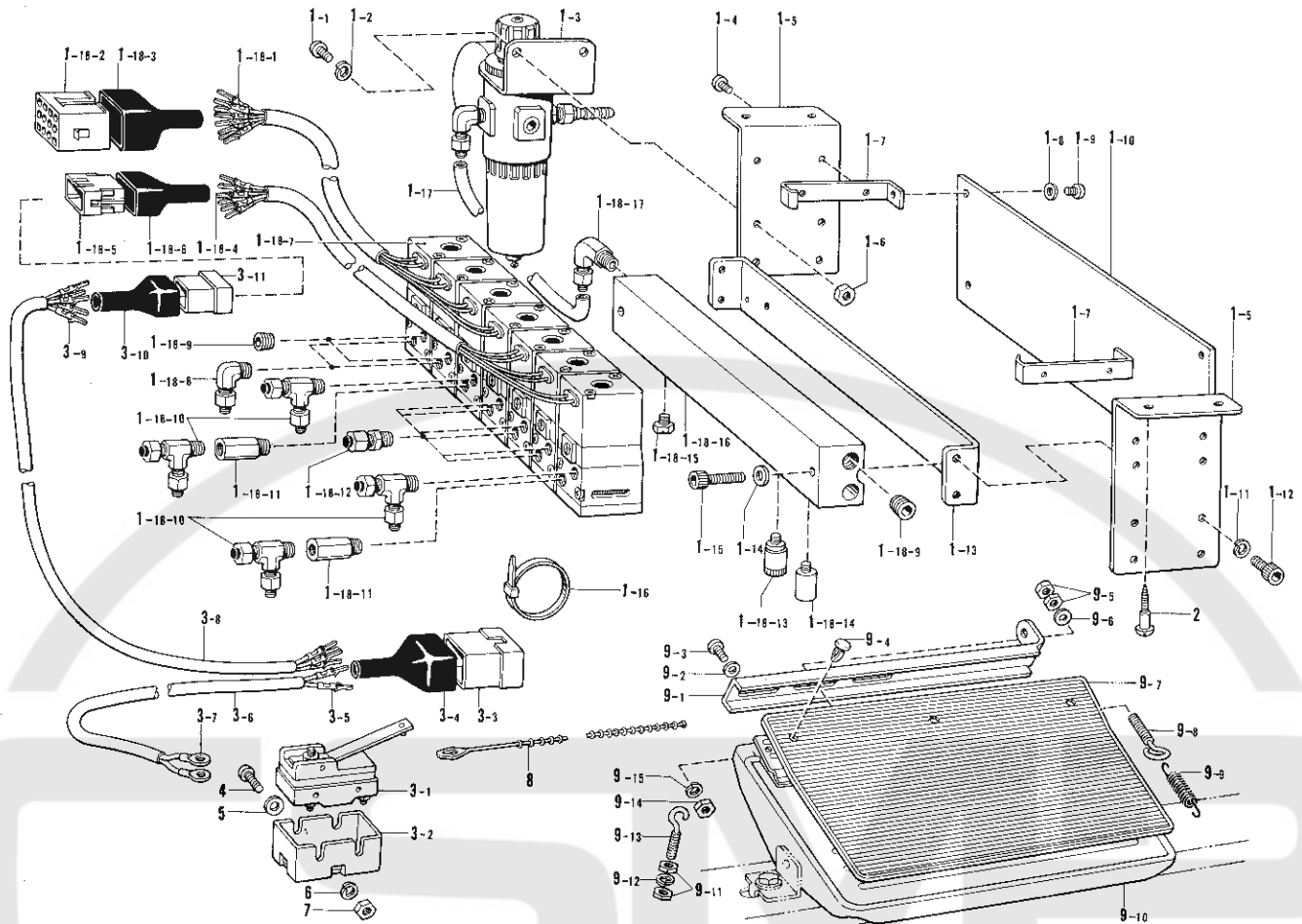
— 10 —

## L. Synchronizer Mechanism



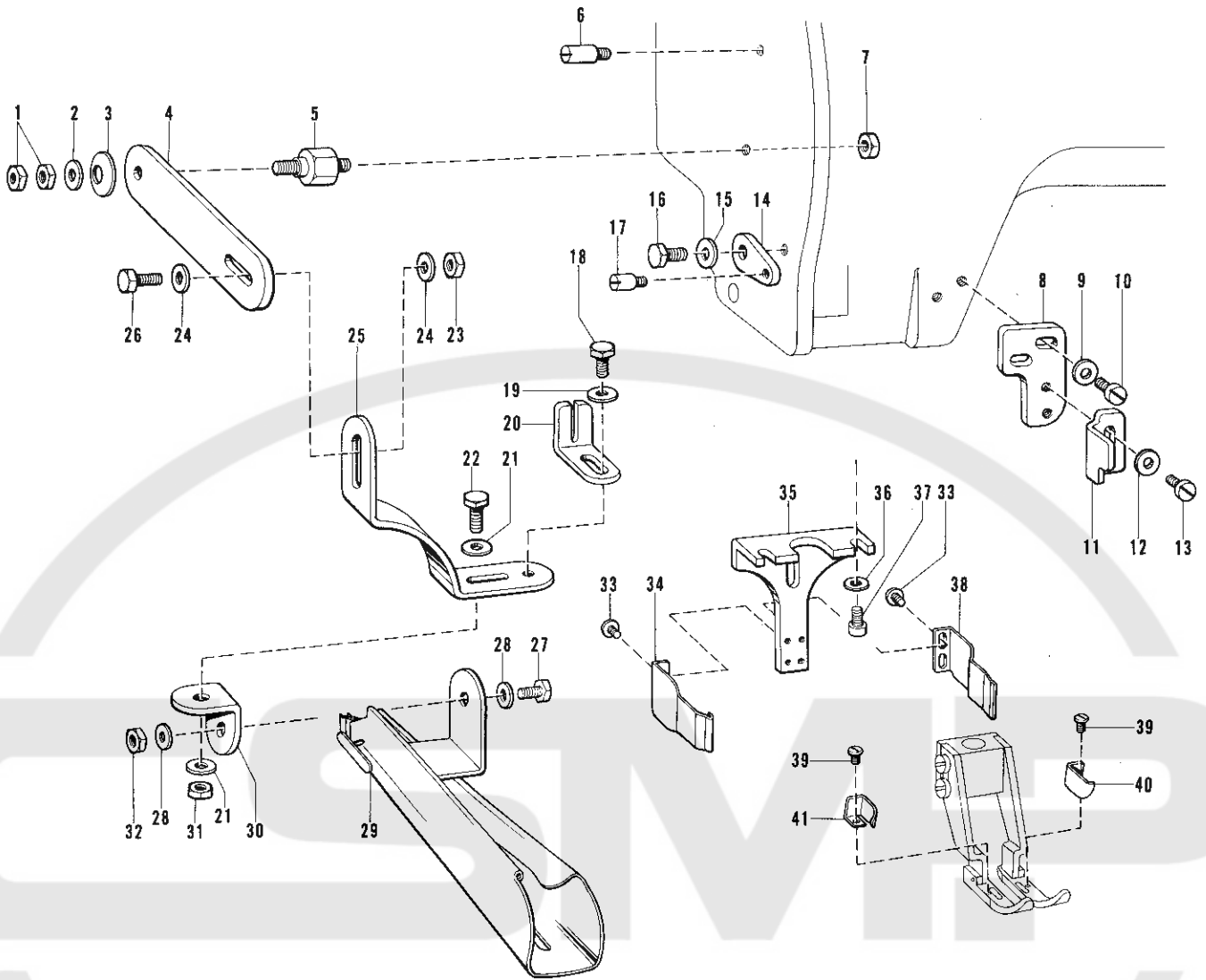
| Ref. No. | Name of Parts               | Q'ty | Parts No.   | Assembly No.                          | Ref. No. | Name of Parts            | Q'ty | Parts No.   | Assembly No.                          |
|----------|-----------------------------|------|-------------|---------------------------------------|----------|--------------------------|------|-------------|---------------------------------------|
| L- 1- 1  | Synchronizer Shaft Assembly | 1    |             | L-1<br>Synchronizer #7<br>222370-0-01 | L- 1-12  | Screw 4 x 10D            | 2    | 215080-0-01 | L-1<br>Synchronizer #7<br>222370-0-01 |
| L- 1- 2  | Screw 3 x 6D                | 1    | 215083-0-01 |                                       | L- 1-13  | Magnet Setting Bracket   | 1    | 219557-0-00 |                                       |
| L- 1- 3  | Washer 3                    | 1    | 025030-3-35 |                                       | L- 1-14  | Magnet                   | 1    | 219558-0-00 |                                       |
| L- 1- 4  | Bearing 6201 VV             | 1    |             |                                       | L- 1-15  | Magnet Holder Plate      | 1    | 219559-0-00 |                                       |
| L- 1- 5  | Synchronizer Holder         | 1    |             |                                       | L- 1-16  | Screw 6 x 25D            | 1    | 221421-0-01 |                                       |
| L- 1- 6  | Washer 4                    | 2    | 025040-3-35 |                                       | L- 1-17  | Synchronizer Cover #3    | 1    |             |                                       |
| L- 1- 7  | Screw 4 x 12D               | 3    | 217093-0-01 |                                       | L- 1-18  | Label                    | 1    |             |                                       |
| L- 1- 8  | Washer 3                    | 2    | 025030-1-35 |                                       | L- 1-19  | Washer 4                 | 3    | 025040-3-35 |                                       |
| L- 1- 9  | Screw 3 x 6D                | 2    | 215083-0-01 |                                       | L- 1-20  | Screw 4 x 10D            | 2    | 215080-0-01 |                                       |
| L- 1-10  | Hole I.C with Cord          | 1    |             |                                       | L- 2     | Screw 4.76 x 14          | 2    | 009711-4-12 |                                       |
| L- 1-11  | Washer 3                    | 2    | 025040-1-35 |                                       | L- 3     | Synchronizer Holder Stud | 1    | 148615-0-01 |                                       |

# M. Valve Box Mechanism



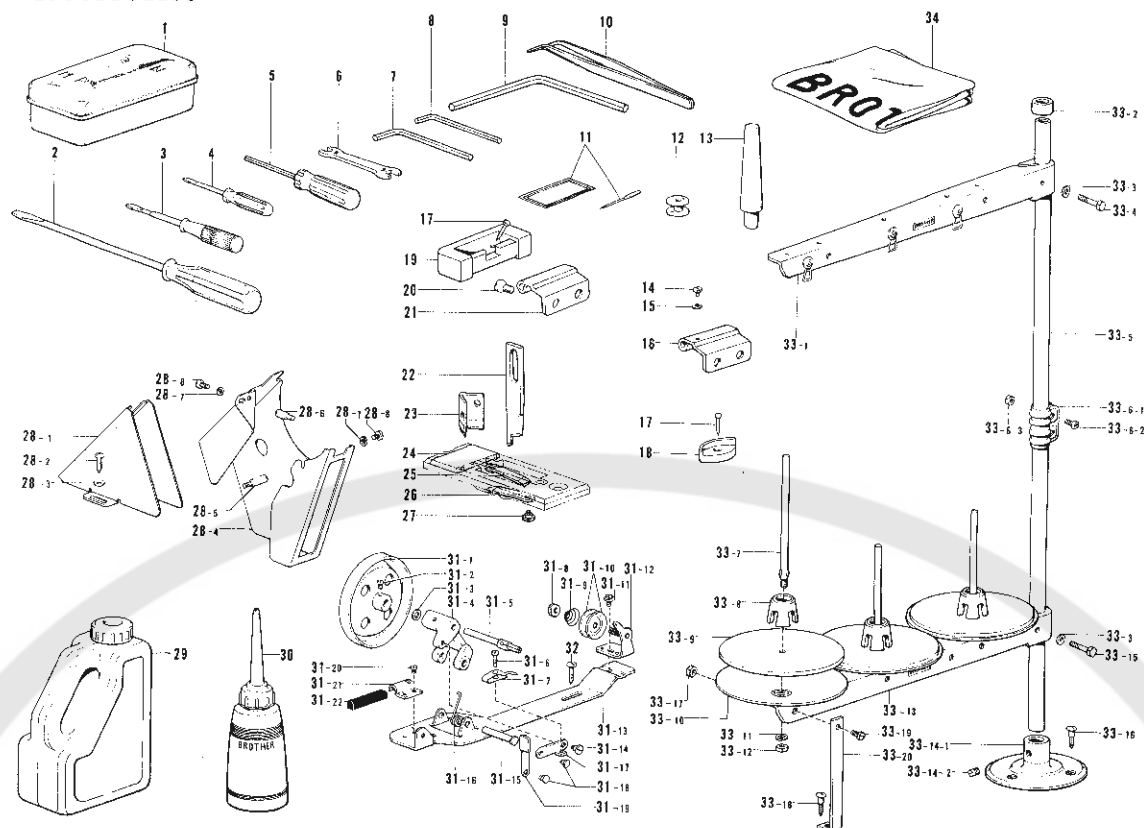
| Ref. No. | Name of Parts         | Q'ty | Parts No.   | Assembly No.                                        | Ref. No.  | Name of Parts            | Q'ty | Parts No.   | Assembly No.                                                  |
|----------|-----------------------|------|-------------|-----------------------------------------------------|-----------|--------------------------|------|-------------|---------------------------------------------------------------|
| M-1-1    | Screw 5 x 10          | 2    | 002501-0-64 | M-1<br>Valve Box<br>Assembly<br>155974-0-01         | M-1-18-10 | Air Tube Connector       | 4    | 140544-0-00 | M-18<br>Solenoid Valve<br>Assembly<br>155977-0-01             |
| M-1-2    | Spring Washer 2-5     | 2    | 028050-2-43 |                                                     | M-1-18-11 | Valve Connector          | 2    | 140539-0-00 |                                                               |
| M-1-3    | Air Unit Assembly     | 1    | 154765-0-02 |                                                     | M-1-18-12 | 1/8" Connector           | 6    | 140543-0-00 |                                                               |
| M-1-4    | Screw 3 x 6           | 4    | 002300-6-13 |                                                     | M-1-18-13 | Adjusting Valve          | 2    | 153268-0-01 |                                                               |
| M-1-5    | Side Plate            | 2    |             |                                                     | M-1-18-14 | Silencer                 | 10   | 153269-0-01 |                                                               |
| M-1-6    | Nut 5                 | 2    | 021500-1-63 |                                                     | M-1-18-15 | Cap Screw M5             | 2    | 156096-0-00 |                                                               |
| M-1-7    | Plate Supporter       | 2    |             |                                                     | M-1-18-16 | Solenoid Valve Base      | 1    | 155979-0-01 |                                                               |
| M-1-8    | Washer 3              | 4    | 025030-2-33 |                                                     | M-1-18-17 | 1/8" Elbow               | 1    | 151147-0-01 |                                                               |
| M-1-9    | Screw 3 x 6           | 4    | 002300-6-13 |                                                     | M-2       | Screw 5.5 x 20           | 4    | 100666-0-02 | M-3<br>Presser Foot<br>Lifter Cord<br>Assembly<br>156099-0-01 |
| M-1-10   | Rear Plate            | 1    |             |                                                     | M-3-1     | Micro Switch             | 1    | 140948-0-01 |                                                               |
| M-1-11   | Spring Washer 2-5     | 4    | 028050-2-42 |                                                     | M-3-2     | Cover                    | 1    | 140950-0-00 |                                                               |
| M-1-12   | Bolt 5 x 8            | 4    | 018500-8-22 |                                                     | M-3-3     | Nylon Connector 12P      | 1    | 153969-0-00 |                                                               |
| M-1-13   | Valve Setting Plate V | 1    |             |                                                     | M-3-4     | Connector Cap 5          | 1    | 153971-0-01 |                                                               |
| M-1-14   | Washer 5              | 2    | 025050-1-32 |                                                     | M-3-5     | Male Terminal            | 8    | 143549-0-00 |                                                               |
| M-1-15   | Bolt 5 x 30           | 2    | 018503-0-22 |                                                     | M-3-6     | Presser Foot Lifter Cord | 1    |             |                                                               |
| M-1-16   | Binder M150           | 1    | 218859-0-01 |                                                     | M-3-7     | Terminal Pin             | 2    | 140693-0-00 |                                                               |
| M-1-17   | Air Tube              | 1    | 140540-0-00 |                                                     | M-3-8     | Valve Cord               | 1    | 155981-0-00 |                                                               |
| M-1-18-1 | Male Terminal         | 8    | 143549-0-00 | M-1-18<br>Solenoid Valve<br>Assembly<br>155977-0-01 | M-3-9     | Female Terminal          | 6    | 143548-0-00 |                                                               |
| M-1-18-2 | Nylon Connector 12P   | 1    | 153433-0-00 |                                                     | M-3-10    | Connector Cover #5       | 1    | 216384-0-01 |                                                               |
| M-1-18-3 | Connector Cover #15   | 1    | 221786-0-01 |                                                     | M-3-11    | Nylon Connector 6P       | 1    | 216382-0-01 |                                                               |
| M-1-18-4 | Female Terminal       | 6    | 143549-0-00 |                                                     | M-4       | Screw 3 x 30             | 2    | 002303-0-06 |                                                               |
| M-1-18-5 | Nylon Connector 6P    | 1    | 216323-0-01 |                                                     | M-5       | Washer 3                 | 2    | 025030-2-33 |                                                               |
| M-1-18-6 | Connector Cover       | 1    | 216324-0-01 |                                                     | M-6       | Washer 2-3               | 2    | 028030-2-43 |                                                               |
| M-1-18-7 | Solenoid Valve        | 7    | 155978-0-01 |                                                     | M-7       | Nut 3                    | 2    | 021300-1-03 |                                                               |
| M-1-18-8 | Cylinder Elbow P7 1/8 | 2    | 140599-0-00 |                                                     | M-8       | Bead Band                | 1    |             |                                                               |
| M-1-18-9 | Cap                   | 3    | 153274-0-01 |                                                     |           |                          |      |             |                                                               |

## N. Lupper 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     | Nut 5.95            | 2    | 150553-0-01 |              | N-22     | Bolt 5.95 x 12                   | 1    | 017761-2-12 |              |
| N- 2     | Washer              | 1    | 025060-2-32 |              | N-23     | Nut 5.95                         | 1    | 150553-0-01 |              |
| N- 3     | Washer              | 1    | 115017-0-01 |              | N-24     | Washer                           | 2    | 025060-2-32 |              |
| N- 4     | Lapper Guide Link   | 1    | 155948-0-01 |              | N-25     | Lapper Setting Plate (U)         | 1    | 155949-0-01 |              |
| N- 5     | Stud                | 1    | 155947-0-01 |              | N-26     | Bolt 5.95 x 12                   | 1    | 017761-2-12 |              |
| N- 6     | Stud                | 1    | 150721-0-02 |              | N-27     | Bolt 5.95 x 12                   | 1    | 017761-2-12 |              |
| N- 7     | Nut 5.95            | 1    | 150553-0-01 |              | N-28     | Washer                           | 2    | 025060-2-32 |              |
| N- 8     | Positioning Plate C | 1    | 155953-0-01 |              | N-29     | Lapper Assembly                  | 1    | 155962-0-00 |              |
| N- 9     | Washer 4.37         | 2    | 100645-0-03 |              | N-30     | Lapper Setting Plate (D)         | 1    | 155950-0-01 |              |
| N-10     | Screw 4.37 x 8      | 2    | 009680-8-12 |              | N-31     | Nut 5.95                         | 1    | 150553-0-01 |              |
| N-11     | Positioning Plate B | 1    | 155952-0-01 |              | N-32     | Nut 5.95                         | 1    | 150553-0-01 |              |
| N-12     | Washer 4.37         | 1    | 100645-0-03 |              | N-33     | Screw 2.38                       | 4    | 100105-0-02 |              |
| N-13     | Set Screw 4.37 x 6  | 1    | 009680-6-12 |              | N-34     | Knife Guard Plate (Left)         | 1    | 155969-0-00 |              |
| N-14     | Adjusting Plate     | 1    | 115558-0-02 |              | N-35     | V Cutter Guard Supporter         | 1    | 155967-0-01 |              |
| N-15     | Washer              | 1    | 025060-2-32 |              | N-36     | Washer                           | 2    | 100645-0-03 |              |
| N-16     | Bolt 5.95 x 8       | 1    | 017760-8-12 |              | N-37     | Bolt 4 x 8                       | 2    | 018400-8-22 |              |
| N-17     | Screw               | 1    | 155954-0-01 |              | N-38     | Knife Guard Plate (Right)        | 1    | 155968-0-00 |              |
| N-18     | Bolt 5.95 x 8       | 1    | 017760-8-12 |              | N-39     | Screw 2.38                       | 2    | 100105-0-02 |              |
| N-19     | Washer A            | 1    | 025060-2-32 |              | N-40     | Presser Foot Guide Plate (Right) | 1    | 155965-0-01 |              |
| N-20     | Positioning Plate A | 1    | 155951-0-01 |              | N-41     | Presser Foot Guide Plate (Left)  | 1    | 155966-0-01 |              |
| N-21     | Washer              | 2    | 025060-2-32 |              |          |                                  |      |             |              |

## Z. Accessories



| Ref. No. | Name of Parts                       | Q'ty | Parts No.   | Assembly No.                                     | Ref. No.  | Name of Parts                    | Q'ty | Parts No.   | Assembly No.                                            |
|----------|-------------------------------------|------|-------------|--------------------------------------------------|-----------|----------------------------------|------|-------------|---------------------------------------------------------|
| Z- 1     | Accessory Box Assembly              |      | 110436-0-01 |                                                  | Z-31- 7   | Bobbin Presser                   |      | 100656-0-01 | Z-31<br>Bobbin Winder<br>Assembly<br>117963-0-01        |
| Z- 2     | Screw Driver 5.5 x 190              |      | 101572-1-01 |                                                  | Z-31- 8   | Tension Control Nut              |      | 100136-0-02 |                                                         |
| Z- 3     | Screw Driver 3.4 x 70               |      | 118837-0-01 |                                                  | Z-31- 9   | Tension Spring                   |      | 100401-0-01 |                                                         |
| Z- 4     | Screw Driver 1.9 x 52               |      | 142443-0-01 |                                                  | Z-31-10   | Tension Disc                     |      | 145446-0-01 |                                                         |
| Z- 5     | Screw Driver 1.6                    |      | 144124-0-01 |                                                  | Z-31-11   | Screw 4.37                       |      | 149168-0-01 |                                                         |
| Z- 6     | Spanner 8 x 9                       |      | 100887-0-01 |                                                  | Z-31-12   | Bobbin Winder Guide Assembly     |      | 117965-0-01 |                                                         |
| Z- 7     | Spanner 3                           |      | 142721-0-01 |                                                  | Z-31-13   | Bobbin Winder Wheel Bracket      |      | 117964-0-01 |                                                         |
| Z- 8     | Allen Wrench (2 mm)                 |      | 142002-0-01 |                                                  | Z-31-14   | Stud Screw 3.18                  |      | 100659-0-01 |                                                         |
| Z- 9     | Spanner                             |      | 149570-0-01 |                                                  | Z-31-15   | Pin                              |      | 117968-0-01 |                                                         |
| Z-10     | Tweezers                            |      | 117466-0-00 |                                                  | Z-31-16   | Spring                           |      | 117969-0-01 |                                                         |
| Z-11     | Needle Assembly MT x 190            |      | 153011-4-16 |                                                  | Z-31-17   | Bobbin Presser Arm               |      | 100658-0-01 |                                                         |
| Z-12     | Bobbin                              |      | 148603-0-01 |                                                  | Z-31-18   | Pin                              |      | 100661-0-01 |                                                         |
| Z-13     | Head Rest                           |      | 149010-0-00 |                                                  | Z-31-19   | Bobbin Presser Bracket           |      | 100660-0-01 |                                                         |
| Z-14     | Screw 4.37 x 6                      |      | 009680-6-13 |                                                  | Z-31-20   | Screw 3.57 x 3.5                 |      | 009679-3-12 |                                                         |
| Z-15     | Washer 4.37                         |      | 025680-2-34 |                                                  | Z-31-21   | Bobbin Winder Wheel Stopper Hold |      | 100664-0-01 |                                                         |
| Z-16     | Hinge E                             |      | 150557-0-01 |                                                  | Z-31-22   | Bobbin Winder Wheel Stopper      |      | 100662-0-01 |                                                         |
| Z-17     | Nail                                |      | 109714-0-00 |                                                  | Z-32      | Screw 5.5 x 20                   |      | 100666-0-02 | Z-33<br>Cotton Stand<br>Assembly 3<br>150151-0-01       |
| Z-18     | Head Cushion                        |      | 148890-1-01 |                                                  | Z-33- 1   | Thread Hanger Assembly 3         |      | 150193-0-01 |                                                         |
| Z-19     | Rubber Hinge                        |      | 143910-0-01 |                                                  | Z-33- 2   | Cap                              |      | 150174-0-00 |                                                         |
| Z-20     | Screw 6.35                          |      | 112569-0-01 |                                                  | Z-33- 3   | Washer                           |      | 025050-2-33 |                                                         |
| Z-21     | Head Hinge                          |      | 148882-0-01 |                                                  | Z-33- 4   | Bolt                             |      | 017502-8-03 | Z-33-6<br>Joint for<br>Cotton Stand<br>150106-0-01      |
| Z-22     | Upper Knife                         |      | 153019-0-01 |                                                  | Z-33- 5   | Pipe                             |      | 150172-0-01 |                                                         |
| Z-23     | Corner Cutter 10                    |      | 155904-0-01 |                                                  | Z-33- 6-1 | Joint                            |      | 150173-0-01 | Z-33-14<br>Cotton Stand<br>Base Assembly<br>150139-0-01 |
| Z-24     | Corner Cutter Support               |      | 155905-0-00 |                                                  | Z-33- 6-2 | Screw 5 x 14                     |      | 150202-0-01 |                                                         |
| Z-25     | Fixed Knife Right                   |      | 149169-0-01 |                                                  | Z-33- 6-3 | Nut 5                            |      | 021500-1-03 | Z-33-15<br>Cotton Stand<br>Base Assembly<br>150139-0-01 |
| Z-26     | Fix Knife Left                      |      | 148538-0-01 |                                                  | Z-33- 7   | Spool Shaft (B)                  |      | 150179-0-01 |                                                         |
| Z-27     | Stud Screw 2.38                     |      | 148539-0-01 |                                                  | Z-33- 8   | Spool Cushion                    |      | 126863-0-00 |                                                         |
| Z-28- 1  | Belt Cover D                        |      | 147854-0-01 | Z-28<br>Belt Cover<br>Complete D<br>147908-0-01  | Z-33- 9   | Spool Mat                        |      | 150182-0-00 |                                                         |
| Z-28- 2  | Screw 5.5 x 20                      |      | 100666-0-02 |                                                  | Z-33-10   | Spool Stand Base                 |      | 150180-0-00 |                                                         |
| Z-28- 3  | Washer 5.5                          |      | 025750-1-32 |                                                  | Z-33-11   | Spring Washer 2-5                |      | 028050-2-43 |                                                         |
| Z-28- 4  | Belt Cover Up                       |      | 147852-0-01 |                                                  | Z-33-12   | Nut 5                            |      | 021500-1-03 |                                                         |
| Z-28- 5  | Belt Cover Stud (B)                 |      | 147856-0-02 |                                                  | Z-33-13   | Spool Holder 3                   |      | 150175-0-01 |                                                         |
| Z-28- 6  | Stud (D)                            |      | 147858-0-01 |                                                  | Z-33-14-1 | Cotton Stand Base                |      | 150189-0-01 |                                                         |
| Z-28- 7  | Spring Washer 2-4.37                |      | 028680-2-42 |                                                  | Z-33-14-2 | Screw 6 x 7                      |      | 150181-1-01 |                                                         |
| Z-28- 8  | Screw 4.37 x 8                      |      | 009680-8-12 |                                                  | Z-33-15   | Bolt 5 x 28                      |      | 017502-8-03 |                                                         |
| Z-29     | Oil Tank                            |      | 154702-0-01 |                                                  | Z-33-16   | Screw 4.5 x 22                   |      | 031452-2-03 |                                                         |
| Z-30     | Oiler                               |      | 114483-0-01 |                                                  | Z-33-17   | Nut 5                            |      | 021500-1-03 |                                                         |
| Z-31- 1  | Bobbin Winder Wheel Assembly        |      | 117971-0-01 | Z-31<br>Bobbin Winder<br>Assembly<br>117963-0-01 | Z-33-18   | Screw 4.5 x 22                   |      | 031452-2-03 |                                                         |
| Z-31- 2  | Screw 4.37 x 5                      |      | 100366-0-02 |                                                  | Z-33-19   | Screw 5 x 10                     |      | 007501-0-03 |                                                         |
| Z-31- 3  | Washer                              |      | 142711-0-01 |                                                  | Z-33-20   | Spool Holder Supporter A         |      | 150188-0-01 |                                                         |
| Z-31- 4  | Bobbin Winder Wheel Shaft Supporter |      | 117967-0-01 |                                                  | Z-34      | Head Cover                       |      | 144222-0-01 |                                                         |
| Z-31- 5  | Bobbin Winder Shaft                 |      | 117970-0-01 |                                                  |           |                                  |      |             |                                                         |
| Z-31- 6  | Screw 3.18                          |      | 100657-0-01 |                                                  |           |                                  |      |             |                                                         |

# BROTHER I.S.M.

## TECHNICAL INFORMATION

**BROTHER INDUSTRIES, LTD.**

HEAD OFFICE: No. 35, 9-CHOME,  
HORITA-DORI, MIZUHO-KU, NAGOYA, JAPAN (467)

CABLE: BROTHER, NAGOYA,

TELEX: J59908; J59970 & J59743 BROTHER

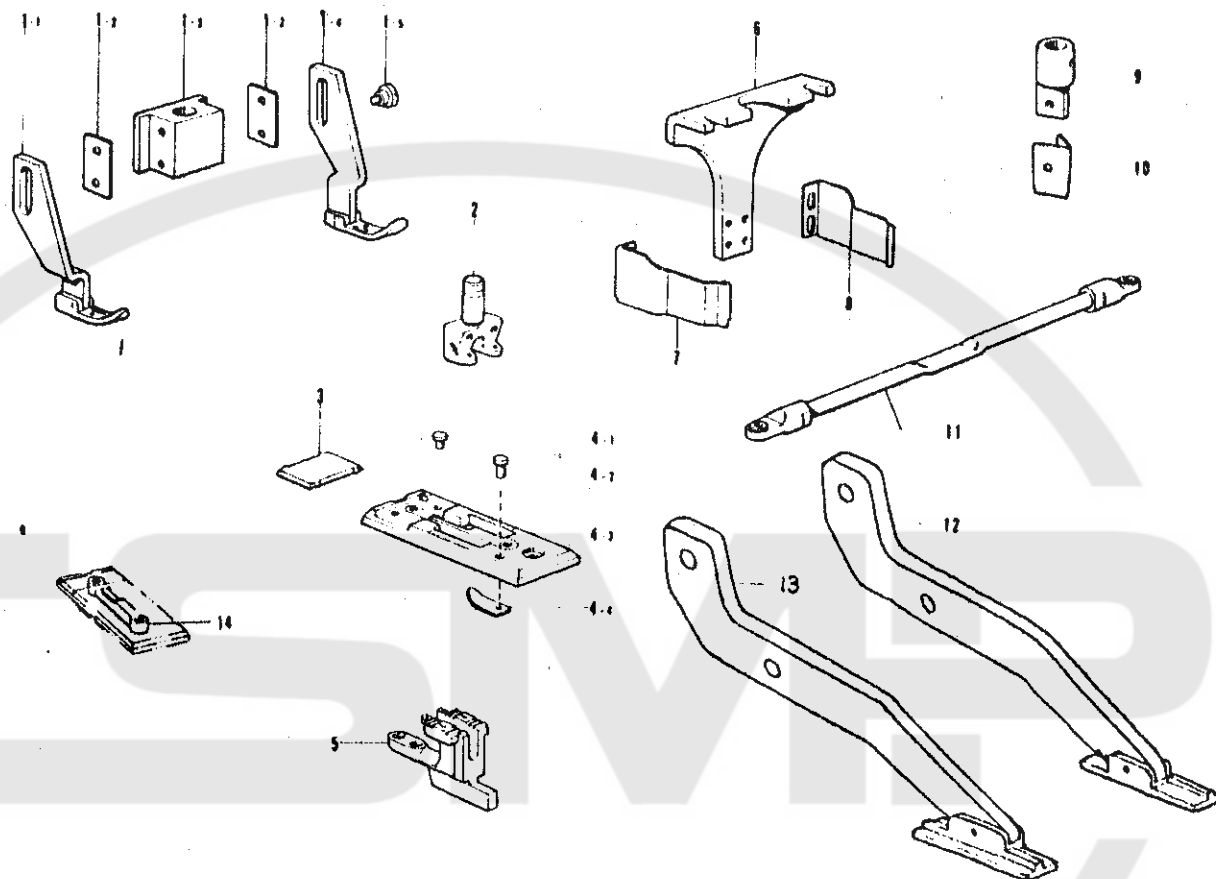
■ NO. 27

■ DATE 1982.3.10

■ CLASIFICATIONS

B

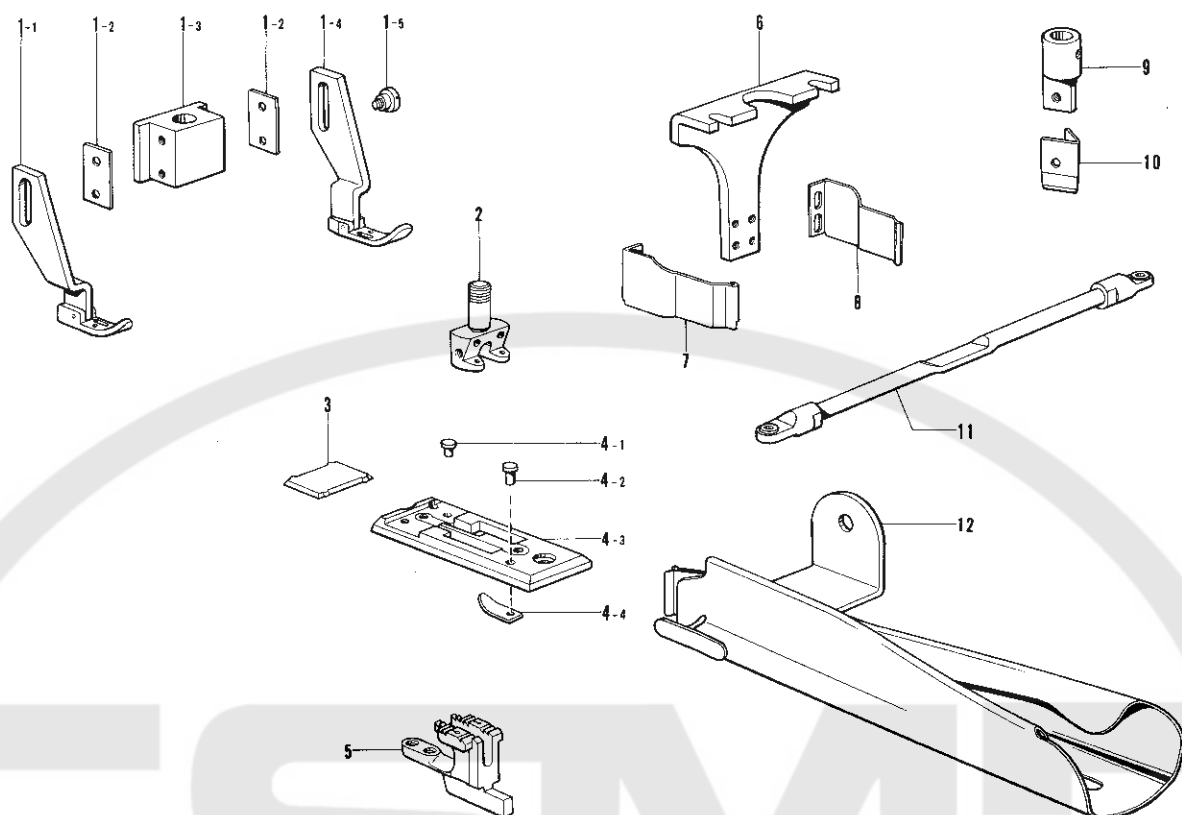
### GAUGE PARTS LIST



| Ref. No. | Name of Parts             | Model 600V |            |            |            | Model 600  |
|----------|---------------------------|------------|------------|------------|------------|------------|
|          |                           | 8 mm       | 10 mm      | 12 mm      | 16 mm      | 20 mm      |
| 1        | Presser Foot Assembly     | 156844-001 | 155937-101 | 156845-001 | 156848-001 | 156856-001 |
| 1-1      | Presser Foot (Left)       |            | 155939-201 |            | 156849-001 |            |
| 1-2      | Spacer                    |            | 155945-001 | 156846-001 |            | 156846-001 |
| 1-3      | Presser Foot Holder       |            |            | 155938-001 |            |            |
| 1-4      | Presser Foot (Right)      |            | 155942-201 |            | 156853-001 |            |
| 1-5      | Screw                     | 143642-101 |            | 156847-001 | 143642-101 | 156847-001 |
| 2        | Needle Clamp              | 156833-001 | 153021-001 | 156059-001 | 156834-001 | 156835-001 |
| 3        | Corner Cutter Support     |            | 155905-100 |            |            | 156855-000 |
| 4        | Needle Plate Assembly     | 156836-001 | 158787-001 | 156838-001 | 156840-001 | 156842-001 |
| 4-1      | Pin                       |            |            | 148709-001 |            |            |
| 4-2      | Pin L                     |            |            | 155934-001 |            |            |
| 4-3      | Needle Plate              | 156837-001 | 158788-001 | 156839-001 | 156841-001 | 156843-001 |
| 4-4      | Spring                    |            |            | 148708-001 |            |            |
| 5        | Feed Dog                  | 156857-001 | 158789-001 | 156858-001 | 156859-001 | 156850-001 |
| 6        | V Cutter Guard Support    | 156863-001 |            | 155967-101 |            |            |
| 7        | Knife Guard Plate (Left)  | 156865-000 | 155969-000 | 156867-000 | 158405-000 |            |
| 8        | Knife Guard Plate (Right) | 156864-000 | 155968-000 | 156866-000 | 158404-000 |            |
| 9        | Cutter Setting Bar        | 156826-001 | 155903-001 | 156827-001 | 156831-001 |            |
| 10       | Corner Cutter             | 156828-001 | 155904-001 | 156829-001 | 156862-001 |            |
| 11       | Knife Connecting Bar      | 149697-001 |            | 149685-001 | 149958-001 | 150528-001 |
| 12       | Finger Assembly (R.)      |            | 155918-102 |            | 156852-002 |            |
| 13       | Finger Assembly (L.)      |            | 155918-101 |            | 156852-001 |            |
| 14       | Fixed Knife               | 156832-001 |            | 155928-001 |            |            |



## a. GAUGE PARTS LIST



| Ref. No. | Name of Parts                 | Model 600   | Model 600V  |
|----------|-------------------------------|-------------|-------------|
|          |                               | 10 mm       | 10 mm       |
| a- 1     | Presser Foot Assembly         | 155937-0-01 |             |
| a- 1- 1  | Presser Foot (Left)           | 155939-0-01 |             |
| a- 1- 2  | Spacer                        | 155945-0-01 |             |
| a- 1- 3  | Presser Foot Holder           | 155938-0-01 |             |
| a- 1- 4  | Presser Foot (Right)          | 155942-0-01 |             |
| a- 1- 5  | Screw                         | 143642-0-01 |             |
| a- 2     | Needle Clamp                  | 153021-0-01 |             |
| a- 3     | Corner Cutter Support         |             |             |
| a- 4     | Needle Plate Assembly         | 155932-0-01 | 155935-0-01 |
| a- 4- 1  | Pin                           |             | 148709-0-01 |
| a- 4- 2  | Pin L                         | 155934-0-01 |             |
| a- 4- 3  | Needle Plate                  | 155933-0-01 | 155936-0-01 |
| a- 4- 4  | Spring                        | 148708-0-01 |             |
| a- 5     | Feed Dog                      | 155946-0-01 |             |
| a- 6     | V Cutter Guard Supporter      |             | 155967-0-01 |
| a- 7     | Knife Guard Plate (Left)      |             | 155969-0-00 |
| a- 8     | Knife Guard Plate (Right)     |             | 155968-0-00 |
| a- 9     | Cutter Setting Bar            |             | 155903-0-01 |
| a-10     | Corner Cutter                 |             | 155904-0-01 |
| a-11     | Knife Connecting Bar Assembly | 149697-0-01 |             |
| a-12     | Lapper Assembly               | 155955-0-00 | 155956-0-00 |

## DIFFERENT PARTS LIST

| Ref. No.   | Name of Parts               | Model 600   | Model 600V  |
|------------|-----------------------------|-------------|-------------|
| A- 4       | Thread Take-up Cover        | 112561-0-02 | 156058-0-01 |
| A- 6       | Stud (B)                    |             | 147856-0-01 |
| A- 7       | Screw 4.37 x 8              | 009681-6-13 | 009680-8-13 |
| A- 8       | Arm Top Cover               | 143572-0-02 | 155872-0-01 |
| A-41       | Arm Top Sub-cover           | 143574-0-01 |             |
| A-42       | Screw 3.18 x 4              | 009660-4-12 |             |
| A-43       | Screw 3.57 x 6              | 009670-6-12 |             |
| A-44       | Bracket Cover               | 155876-0-01 |             |
| B-57       | Needle Plate Assembly       | 155932-0-01 | 155935-0-01 |
| H-44       | Fixed Knife                 | 155927-0-01 | 155928-0-01 |
| K-17       | Wick                        | 112725-0-01 | 155972-0-00 |
| K-18       | Oil Tube                    |             | 151084-0-01 |
| K-25       | Oil Receiver Plate Assembly | 112762-0-01 | 155970-0-01 |
| M- 1       | Valve Box Assembly          | 156093-0-01 | 155974-0-01 |
| M- 1-18    | Solenoid Valve Assembly     | 155984-0-01 | 155977-0-01 |
| M- 1-18- 4 | Female Terminal             |             | 143549-0-00 |
| M- 1-18- 5 | Nylon Connector 6P          |             | 216323-0-01 |
| M- 1-18- 6 | Connector Cover             |             | 216324-0-01 |
| M- 1-18- 8 | Cylinder Elbow P7 1/8       |             | 140599-0-00 |
| M- 3       | Presser Foot Lifter Cord    | 156098-0-01 | 156099-0-01 |
| M- 3- 4    | Connector Cap 5             | 153970-0-01 | 153971-0-01 |
| M- 3- 8    | Valve Cord                  |             | 155981-0-00 |
| M- 3- 9    | Female Terminal             |             | 143548-0-00 |
| M- 3-10    | Connector Cover #5          |             | 216384-0-01 |
| M- 3-11    | Nylon Connector 6P          |             | 216382-0-01 |
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| N-33       | Screw 2.38                  |             | 100105-0-02 |
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| N-35       | V Cutter Guard Supporter    |             | 155967-0-01 |
| N-36       | Washer                      |             | 100645-0-03 |
| N-37       | Bolt 4 x 8                  |             | 018400-8-22 |
| N-38       | Knife Guard Plate (Right)   |             | 155968-0-00 |
| Z-23       | Corner Cutter               |             | 155904-0-01 |
| Z-24       | Corner Cutter Support       |             | 155905-0-01 |
| K-19       | Tube Holder                 | 3           | 4           |
| K-20       | Screw 3.75 x 5              | 2           | 3           |
| M- 1-18- 7 | Solenoid Valve              | 4           | 7           |
| M- 1-18-10 | Air Tube Connector          | 2           | 4           |
| M- 1-18-11 | Valve Connector             | 1           | 2           |
| M- 1-18-12 | 1/8" Connector              | 4           | 6           |
| M- 1-18-13 | Adjusting Valve             | 1           | 2           |
| M- 1-18-14 | Silencer                    | 5           | 10          |
| M- 3- 5    | Male Terminal               | 2           | 8           |

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| 001630-4-02 | F- 1     |        | 013771-2-12 | E-14       |        | 028050-2-43 | M- 1-11  |        | 105173-0-04 | G-34       |        |
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| 112753-0-01 | K-33       |        |             | J-16       |        | 146153-0-01 | C-32       |        | 148611-0-01 | A-40       |        |
| 112754-0-01 | K-34       |        |             | J-28       |        |             | C-39       |        | 148614-0-01 | A-34       |        |
| 112755-0-01 | E-20       |        | 140693-0-00 | M- 3- 7    |        |             | F-26       |        | 148615-0-01 | L- 3       |        |
| 112756-0-01 | E-19       |        | 140890-0-01 | K-12       |        |             | H-12       |        | 148623-0-01 | G-16       |        |
| 112758-0-01 | K-32       |        | 140948-0-01 | M- 3- 1    |        |             | J- 5       |        | 148625-0-01 | G-18       |        |
| 112759-0-01 | D-52       |        | 140950-0-00 | M- 3- 2    |        |             | J-32       |        | 148628-0-01 | G- 9       |        |
| 112760-0-01 | B-28       |        | 141331-0-01 | F-35- 3    |        | 146427-0-01 | B-52       |        |             | G-19       |        |
| 112762-0-01 | K-25       |        | 141343-0-01 | J-45       |        |             | A-11       |        | 148629-0-01 | G-11       |        |
| 112763-0-01 | C- 1       |        | 141439-0-01 | C-27       |        | 146581-0-01 | H- 8       |        | 148630-0-01 | G-10       |        |
| 112764-0-01 | B-32       |        | 141494-0-01 | C-23       |        | 146699-0-00 | G-28       |        | 148631-0-01 | G- 4       |        |
| 113014-0-00 | B- 1       |        |             | F-34       |        | 147852-0-01 | Z-28- 4    |        | 148632-0-01 | G- 2       |        |
| 113024-0-00 | B-15       |        | 141748-0-01 | C-47       |        | 147854-0-01 | Z-28- 1    |        | 148633-0-01 | G- 8       |        |
| 113074-0-01 | D-39       |        | 142002-0-01 | Z- 8       |        | 147856-0-01 | A- 6       |        | 148634-0-01 | G- 6       |        |
| 113362-0-01 | E- 4       |        | 142443-0-01 | Z- 4       |        | 147856-0-02 | Z-28- 5    |        | 148635-0-01 | G- 7       |        |
| 113386-0-00 | B-56       |        | 142711-0-01 | Z-31- 3    |        | 147858-0-01 | Z-28- 6    |        | 148638-0-01 | C-55       |        |
| 113524-0-01 | K-13       |        | 142721-0-01 | Z- 7       |        | 147908-0-01 | Z-28       |        | 148640-0-01 | C-53       |        |
| 113526-0-01 | K-24       |        | 142746-0-02 | D-16       |        | 148005-0-01 | E-51       |        | 148654-0-01 | G-14       |        |
| 114297-0-01 | K-23       |        | 142747-0-02 | D-17       |        | 148294-0-01 | J-39       |        | 148662-0-01 | A-17- 5    |        |
|             | K-56       |        | 143548-0-00 | M- 3- 9    |        |             | J-42       |        | 148663-0-01 | A-17- 7    |        |
| 114483-0-01 | Z-30       |        | 143549-0-00 | M- 1-18- 1 |        |             | J-49       |        | 148664-0-01 | A-17- 6    |        |
| 114486-0-01 | K-60       |        |             | M- 1-18- 4 |        | 148394-0-00 | B-49       |        | 148665-0-01 | A-17- 8    |        |
| 114680-0-01 | B-22       |        |             | M- 3- 5    |        | 148480-0-01 | E-18       |        | 148666-0-01 | A-17- 2    |        |
| 114693-0-01 | B-14       |        | 143572-0-02 | A- 8       |        | 148481-0-01 | E-27       |        | 148667-0-01 | A-17- 3    |        |
| 115017-0-01 | N- 3       |        | 143574-0-01 | A-41       |        | 148487-0-01 | D-18       |        | 148668-0-01 | A-17- 4    |        |
| 115177-0-01 | G-13       |        | 143576-0-01 | B-20       |        | 148488-0-01 | D- 2       |        | 148669-0-01 | A-17- 9- 3 |        |
| 115249-0-01 | E- 1       |        | 143581-0-01 | B-50- 8    |        | 148489-0-01 | D- 5       |        | 148670-0-01 | A-17- 9- 1 |        |
| 115558-0-02 | N-14       |        | 143591-0-01 | D-45       |        | 148490-0-01 | D-46       |        | 148671-0-01 | A-17- 9- 6 |        |
| 116010-0-01 | B-61       |        | 143597-0-01 | D-29       |        | 148491-0-01 | D-44       |        | 148708-0-01 | a- 4- 4    |        |
| 116283-0-01 | D-55       |        | 143598-0-01 | D-13       |        | 148492-0-01 | D-42       |        | 148709-0-01 | a- 4- 1    |        |
| 116558-0-01 | K-46       |        | 143609-0-01 | D-21       |        | 148493-0-01 | D-33       |        | 148728-0-01 | E-28       |        |
| 116699-0-00 | B-46       |        | 143610-0-01 | D-22       |        | 148494-0-01 | D-41       |        | 148729-0-01 | K-52       |        |
| 116795-0-00 | H-31       |        | 143613-0-01 | D-31- 3    |        | 148495-0-01 | D-37       |        | 148730-0-01 | K-30       |        |
| 117160-0-01 | G- 5       |        | 143616-0-01 | D-35       |        | 148496-0-00 | D-31- 1    |        | 148731-0-00 | K-29       |        |
| 117466-0-00 | Z-10       |        | 143625-0-01 | H-26       |        | 148499-0-01 | D-24       |        | 148732-0-01 | K-51       |        |
| 117666-0-01 | G-37       |        |             | H-35       |        | 148501-0-01 | D-20       |        | 148733-0-01 | K-37       |        |
| 117685-0-01 | J-29       |        | 143626-0-00 | H-23       |        | 148502-0-00 | E- 6       |        |             | K-43       |        |
| 117963-0-01 | Z-31       |        | 143627-0-00 | H-21       |        | 148503-0-00 | E- 2       |        | 148734-0-00 | K-44       |        |
| 117964-0-01 | Z-31-13    |        | 143635-0-00 | H-34       |        | 148505-0-01 | E- 7       |        | 148735-0-01 | K-40       |        |
| 117965-0-01 | Z-31-12    |        | 143637-0-01 | B-50-15    |        | 148531-0-01 | F- 7       |        | 148736-0-00 | K-39       |        |
| 117967-0-01 | Z-31- 4    |        | 143638-0-01 | H-37       |        | 148535-0-01 | F- 4       |        | 148737-0-01 | K-41       |        |
| 117968-0-01 | Z-31-15    |        | 143641-0-01 | H-41       |        | 148536-0-01 | F- 5       |        | 148738-0-00 | K-42       |        |
| 117969-0-01 | Z-31-16    |        | 143642-0-01 | H-42       |        | 148537-0-01 | F- 6       |        | 148740-0-00 | K-38       |        |
| 117970-0-01 | Z-31- 5    |        |             | a- 1- 5    |        | 148538-0-01 | F-10       |        | 148741-0-01 | K-36       |        |

| Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No.   | Remark | Parts No.   | Ref. No. | Remark | Parts No.   | Ref. No.   | Remark |
|-------------|------------|--------|-------------|------------|--------|-------------|----------|--------|-------------|------------|--------|
| 148742-0-00 | K-35       |        | 150189-0-01 | Z-33-14- 1 |        | 155880-0-01 | C- 8     |        | 155966-0-01 | N-41       |        |
| 148743-0-01 | D-28       |        | 150193-0-01 | Z-33- 1    |        | 155881-0-01 | C- 4     |        | 155967-0-01 | N-35       |        |
| 148762-0-01 | K- 9       |        | 150202-0-01 | Z-33- 6- 2 |        | 155882-0-01 | C-10     |        |             | a- 6       |        |
| 148764-0-01 | C-34       |        | 150553-0-01 | N- 1       |        | 155883-0-01 | C-46     |        | 155968-0-00 | N-38       |        |
| 148768-0-01 | G- 1       |        |             | N- 7       |        | 155884-0-01 | J-20     |        |             | a- 8       |        |
| 148771-0-01 | D-27       |        |             | N-23       |        | 155886-0-01 | J-20- 2  |        | 155969-0-00 | N-34       |        |
| 148801-0-01 | D-31       |        |             | N-31       |        | 155887-0-01 | J-18     |        |             | a- 7       |        |
| 148802-0-01 | D-30       |        |             | N-32       |        | 155889-0-01 | J-38     |        | 155970-0-01 | K-25       |        |
| 148804-0-01 | E- 5       |        | 150553-0-03 | A-10       |        | 155890-0-01 | J-37     |        | 155972-0-00 | K-17       |        |
| 148805-0-01 | A-17       |        | 150557-0-01 | Z-16       |        | 155891-0-01 | J-41     |        | 155973-0-00 | J-58       |        |
| 148821-0-01 | E-13       |        | 150721-0-02 | N- 6       |        | 155892-0-01 | J-30     |        | 155974-0-01 | M- 1       |        |
| 148835-0-01 | C- 5       |        | 151007-1-01 | K-58       |        | 155896-0-01 | J-33     |        | 155977-0-01 | M- 1-18    |        |
| 148882-0-01 | Z-21       |        | 151021-0-01 | E-29- 8    |        | 155897-0-01 | J-35     |        | 155978-0-01 | M- 1-18- 7 |        |
| 148890-1-01 | Z-18       |        | 151027-0-01 | E-29- 7    |        | 155898-0-01 | J-47     |        | 155979-0-01 | M- 1-18-16 |        |
| 149010-0-00 | Z-13       |        | 151084-0-00 | K-18       |        | 155899-0-01 | J-43     |        | 155981-0-00 | M- 3- 8    |        |
| 149019-0-01 | C-41       |        | 151147-0-01 | M- 1-18-17 |        | 155900-0-01 | J-44     |        | 156007-0-01 | J-25       |        |
| 149023-0-01 | C-44       |        | 151508-0-01 | D-15       |        | 155902-0-00 | J-46     |        | 156015-0-01 | C-14       |        |
| 149024-0-01 | C-25       |        | 151602-0-01 | D- 4       |        | 155903-0-01 | J-48     |        | 156020-0-00 | J-36       |        |
| 149025-0-01 | C-24       |        | 151604-0-01 | C- 2       |        |             | a- 9     |        | 156021-0-00 | J-17       |        |
| 149027-0-01 | C-21       |        |             | E- 3       |        | 155904-0-01 | J-50     |        | 156058-0-01 | A- 4       |        |
| 149030-0-01 | C-30       |        |             | H-20       |        |             | Z-23     |        | 156093-0-01 | M- 1       |        |
| 149031-0-01 | C-31       |        |             | H-22       |        |             | a-10     |        | 156096-0-00 | M- 1-18-15 |        |
| 149033-0-01 | C-35       |        |             | H-33- 2    |        | 155905-0-00 | J-52     |        | 156098-0-01 | M- 3       |        |
| 149034-0-01 | C-20       |        | 151605-0-01 | B-11       |        |             | Z-24     |        | 156099-0-01 | M- 3       |        |
| 149035-0-02 | C-19       |        |             | D- 1       |        | 155906-0-01 | J-54     |        | 180157-0-01 | B-25       |        |
| 149036-0-01 | F-12       |        |             | D-30- 2    |        | 155907-0-01 | J-12     |        | 180164-0-01 | E-12       |        |
| 149037-0-01 | F-30       |        |             | H-36       |        | 155908-0-01 | J-59     |        | 180321-0-01 | D-26       |        |
| 149040-0-01 | F-32       |        | 153008-0-01 | B-50- 2    |        | 155909-0-01 | J-14     |        | 180949-0-01 | E-41       |        |
| 149042-0-01 | F-29       |        | 153009-0-01 | B-50-10    |        | 155914-0-01 | J-13     |        | 181712-0-01 | F-19       |        |
| 149043-0-01 | G-26       |        | 153011-0-16 | B-53       |        |             | J-56     |        | 181713-0-01 | F-17       |        |
| 149049-0-01 | G-22       |        | 153011-4-16 | Z-11       |        | 155915-0-01 | J- 3     |        | 181756-0-01 | A-17- 9    |        |
| 149050-0-01 | G-17       |        | 153013-0-01 | B-50-11    |        | 155916-0-01 | J- 4     |        | 215080-0-01 | L- 1-12    |        |
| 149052-0-01 | G-36       |        | 153015-0-01 | H-33       |        | 155917-0-01 | J-66     |        |             | L- 1-20    |        |
| 149055-0-01 | G-32       |        | 153017-0-01 | H-18       |        | 155918-0-01 | J-67     |        | 215083-0-01 | L- 1- 2    |        |
| 149056-0-01 | G-31       |        | 153019-0-01 | H-40       |        | 155922-0-01 | J-63     |        |             | L- 1- 9    |        |
|             | G-40- 5    |        |             | Z-22       |        | 155923-0-01 | J- 8     |        | 216323-0-01 | M- 1-18- 5 |        |
| 149058-0-01 | G-40       |        | 153021-0-01 | B-54       |        | 155924-0-01 | J-61     |        | 216324-0-01 | M- 1-18- 6 |        |
| 149061-0-01 | G-24       |        |             | a- 2       |        | 155925-0-01 | J-65     |        | 216382-0-01 | M- 3-11    |        |
| 149063-0-01 | C-36       |        | 153023-0-01 | H-32       |        | 155926-0-01 | H-10     |        | 216384-0-01 | M- 3-10    |        |
| 149168-0-01 | Z-31-11    |        | 153024-0-00 | H-17       |        | 155927-0-01 | H-44     |        | 217093-0-01 | L- 1- 7    |        |
| 149169-0-01 | F- 9       |        | 153025-0-01 | H-29       |        | 155928-0-01 | H-44     |        | 218859-0-01 | M- 1-16    |        |
|             | Z-25       |        | 153026-0-01 | H-25       |        | 155929-0-01 | H-14     |        | 219557-0-00 | L- 1-13    |        |
| 149179-0-01 | A-38       |        | 153027-0-01 | H-19       |        | 155932-0-01 | B-57     |        | 219558-0-00 | L- 1-14    |        |
| 149241-0-01 | G-29       |        | 153029-0-01 | H-38       |        |             | a- 4     |        | 219559-0-00 | L- 1-15    |        |
| 149281-0-01 | G-38       |        | 153168-0-01 | D-14       |        | 155933-0-01 | a- 4- 3  |        | 221421-0-01 | L- 1-16    |        |
| 149282-0-01 | C-58       |        | 153243-0-01 | E-32       |        | 155934-0-01 | a- 4- 2  |        | 221786-0-01 | M- 1-18- 3 |        |
| 149283-0-00 | G-35       |        | 153244-0-01 | E-33       |        | 155935-0-01 | B-57     |        | 222370-0-01 | L- 1       |        |
| 149284-0-01 | F-25       |        | 153268-0-01 | M- 1-18-13 |        |             | a- 4     |        | 503093-0-01 | K-16       |        |
| 149286-0-01 | F-24       |        | 153269-0-01 | M- 1-18-14 |        | 155936-0-01 | a- 4- 3  |        |             |            |        |
| 149287-0-00 | F-22       |        | 153274-0-01 | M- 1-18- 9 |        | 155937-0-01 | C-61     |        | 153970-0-01 | M- 3- 4    |        |
| 149288-0-01 | A-33       |        | 153433-0-00 | M- 1-18- 2 |        |             | a- 1     |        | 155984-0-01 | M- 1-18    |        |
| 149554-0-01 | C-50       |        | 153483-0-01 | E-45       |        | 155938-0-01 | a- 1- 3  |        |             |            |        |
| 149569-0-01 | E-24       |        | 153969-0-00 | M- 3- 3    |        | 155939-0-01 | a- 1- 1  |        |             |            |        |
| 149570-0-01 | Z- 9       |        | 153971-0-01 | M- 3- 4    |        | 155942-0-01 | a- 1- 4  |        |             |            |        |
| 149697-0-01 | F-35       |        | 154491-0-01 | H-16       |        | 155945-0-01 | a- 1- 2  |        |             |            |        |
|             | a-11       |        | 154506-0-01 | B-30       |        | 155946-0-01 | D-54     |        |             |            |        |
| 149768-0-01 | C-17       |        | 154516-0-01 | E-29- 6    |        |             | a- 5     |        |             |            |        |
| 149991-0-01 | C-22       |        | 154517-0-01 | E-29- 1    |        | 155947-0-01 | N- 5     |        |             |            |        |
| 150106-0-01 | Z-33- 6    |        | 154518-0-01 | E-29- 2    |        | 155948-0-01 | N- 4     |        |             |            |        |
| 150139-0-01 | Z-33-14    |        | 154519-0-01 | E-29- 4    |        | 155949-0-01 | N-25     |        |             |            |        |
| 150151-0-01 | Z-33       |        | 154520-0-01 | E-29- 3    |        | 155950-0-01 | N-30     |        |             |            |        |
| 150172-0-01 | Z-33- 5    |        | 154524-0-01 | E-29       |        | 155951-0-01 | N-20     |        |             |            |        |
| 150173-0-01 | Z-33- 6- 1 |        | 154702-0-01 | Z-29       |        | 155952-0-01 | N-11     |        |             |            |        |
| 150174-0-00 | Z-33- 2    |        | 154765-0-02 | M- 1- 3    |        | 155953-0-01 | N- 8     |        |             |            |        |
| 150175-0-01 | Z-33-13    |        | 155872-0-01 | A- 8       |        | 155954-0-01 | N-17     |        |             |            |        |
| 150179-0-01 | Z-33- 7    |        | 155873-0-01 | A- 1       |        | 155955-0-00 | N-29     |        |             |            |        |
| 150180-0-00 | Z-33-10    |        | 155876-0-01 | A-44       |        |             | a-12     |        |             |            |        |
| 150181-1-01 | Z-33-14- 2 |        | 155877-0-01 | B-50       |        | 155956-0-00 | a-12     |        |             |            |        |
| 150182-0-00 | Z-33- 9    |        | 155878-0-01 | B-50-17    |        | 155962-0-00 | N-29     |        |             |            |        |
| 150188-0-01 | Z-33-20    |        | 155879-0-01 | B-42       |        | 155965-0-01 | N-40     |        |             |            |        |

