

# **SINGER**

## **660A51**

# Parts List

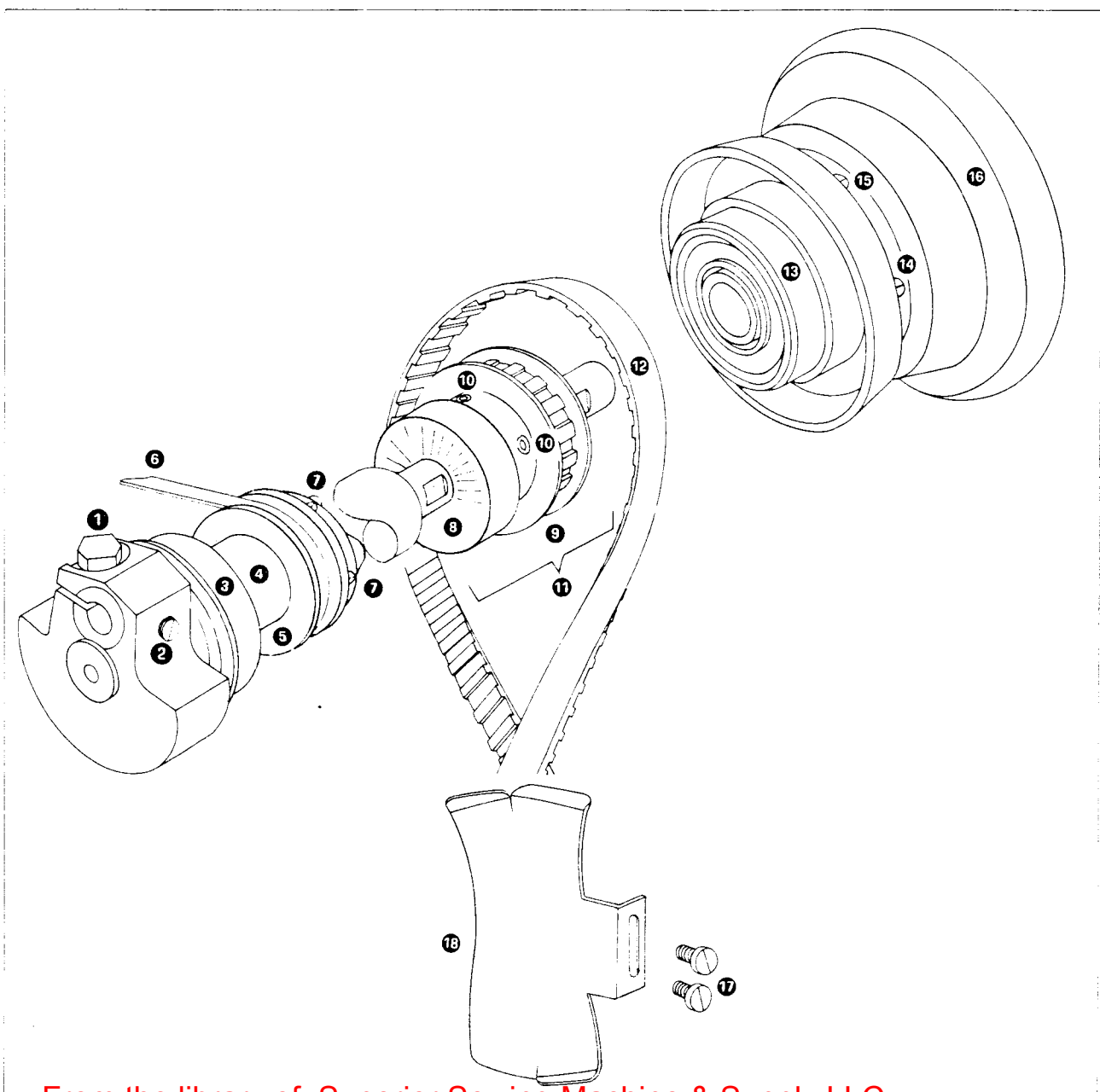
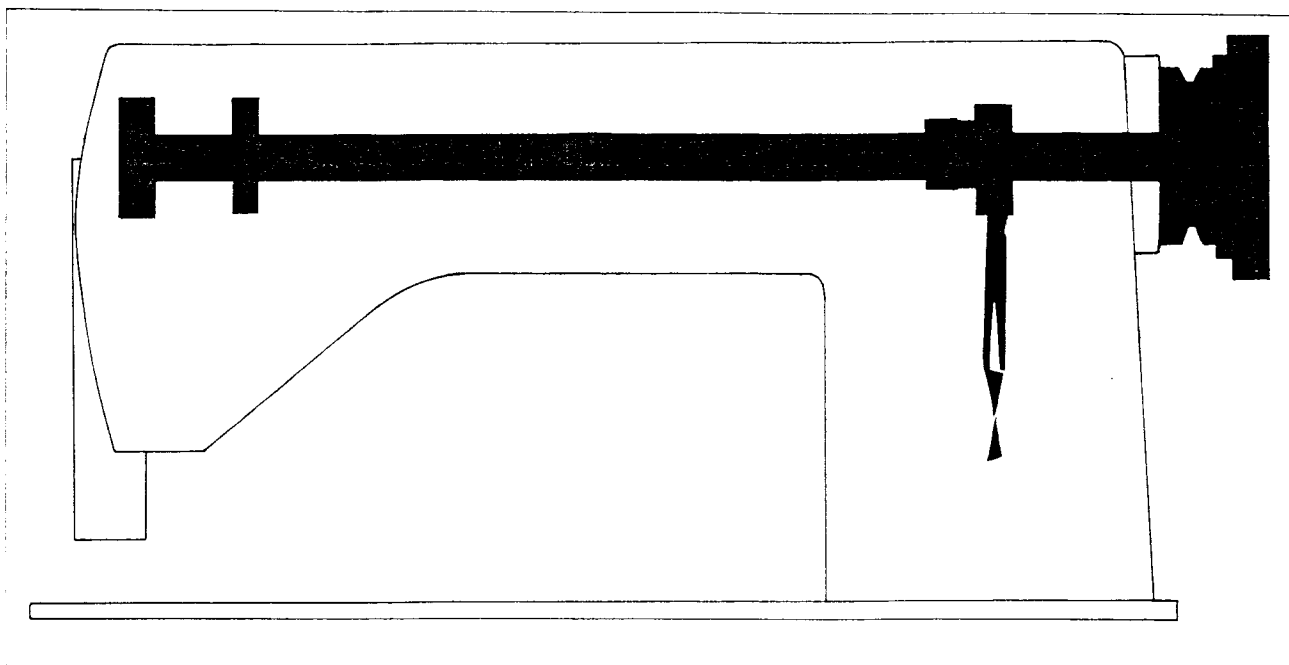
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# SINGER

Parts List

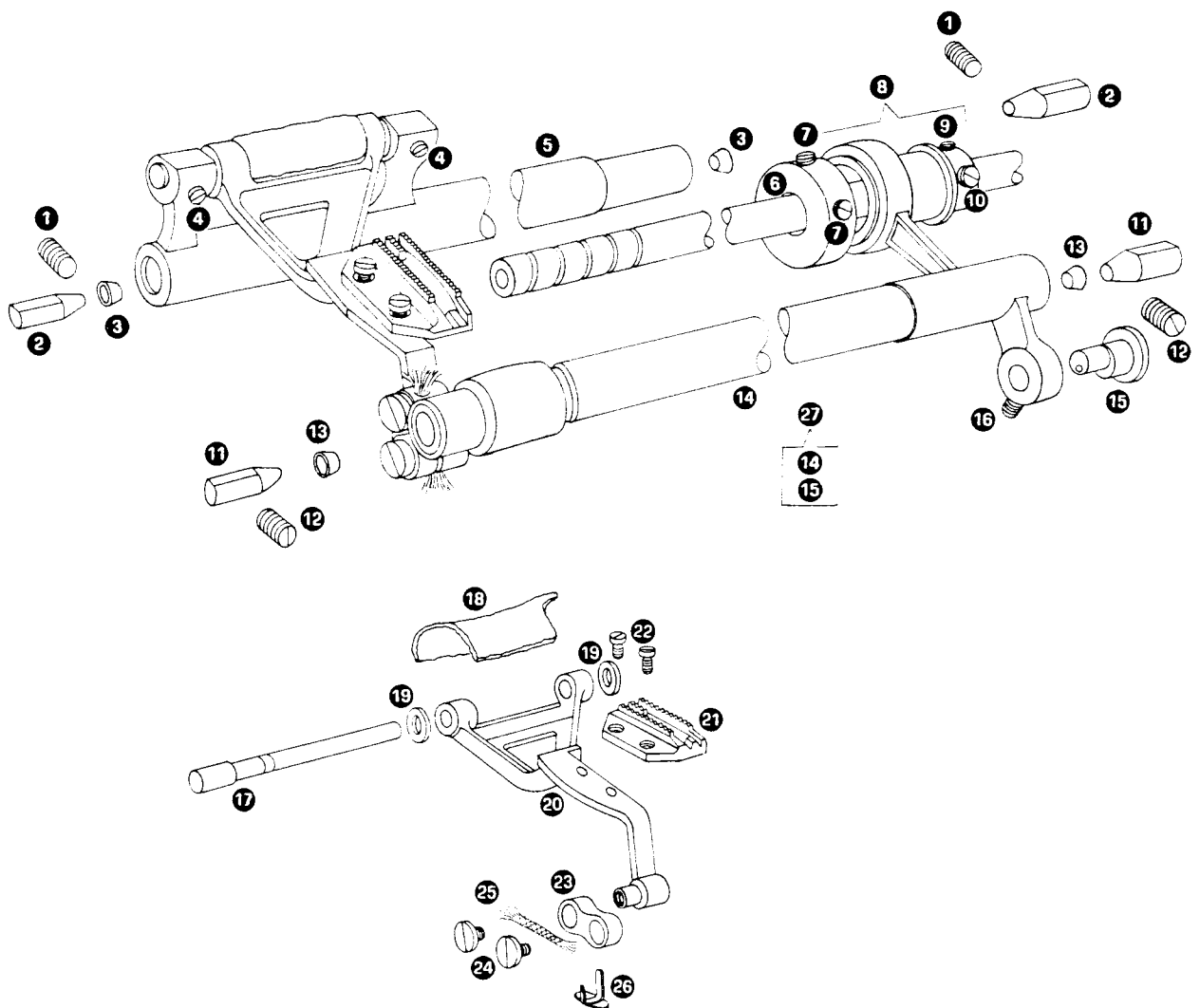
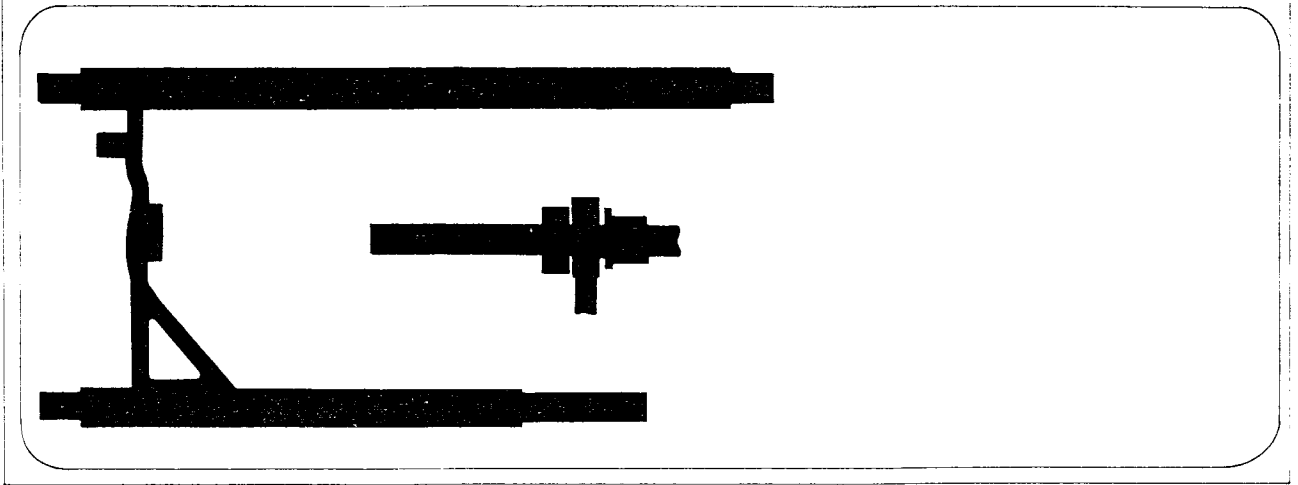
Parts List for 660A51 Machine

| Ref. No. | Part No.<br>For Ordering | Description                                                    | Amt.<br>Req. |
|----------|--------------------------|----------------------------------------------------------------|--------------|
| 1        | 140609(803)              | Thread Take-up Crank Clamping Screw                            |              |
| 2        | 1036(803)                | Thread Take-up Crank Set Screw                                 |              |
| 3        | 106304                   | Arm Shaft Ball Bearing (front)                                 |              |
| 4        | 106303                   | Arm Shaft with Needle Bar Crank also 1036(803) and 140609(803) |              |
| 5        | 107676                   | Arm Shaft Connection Pulley (front) with two 141292(869)       |              |
| 6        | 107719                   | Upper Feed Shaft Connection Belt                               |              |
| 7        | 141292(869)              | Arm Shaft Connection Pulley (front) Set Screw                  | 2            |
| 8        | 107981                   | Bobbie Winder Pulley Friction Ring Driving Hub                 |              |
| 9        | 106306                   | Arm Shaft Connection Belt Pulley (rear) with two 114063(869)   |              |
| 10       | 114063(869)              | Arm Shaft Connection Belt Pulley (rear) Set Screw              | 2            |
| 11       | 107987                   | Arm Shaft Connecting Belt Pulley (rear) 06306 with 107981      |              |
| 12       | 106305                   | Arm Shaft Connection Belt                                      |              |
| 13       | 106304                   | Arm Shaft Ball Bearing (back)                                  |              |
| 14       | 141566(803)              | Machine Pulley Position Screw                                  |              |
| 15       | 141567(803)              | Machine Pulley Set Screw                                       |              |
| 16       | 106323                   | Machine Pulley with 106304, 141566(803) and 141567(803)        |              |
| 17       | 704(830)                 | Arm Shaft Connection Belt Separator Screw                      | 2            |
| 18       | 106307                   | Arm Shaft Connection Belt Separator                            |              |



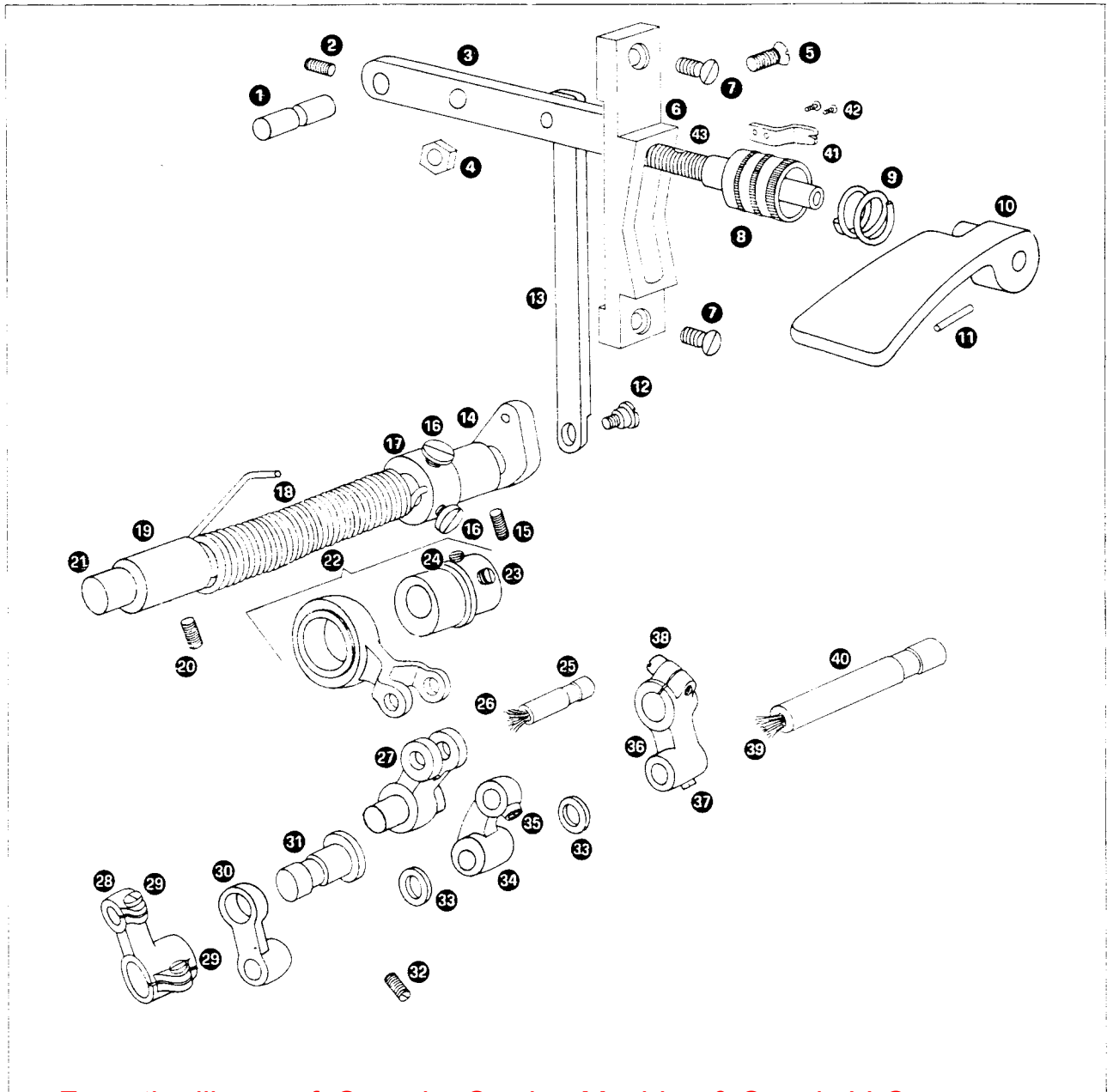
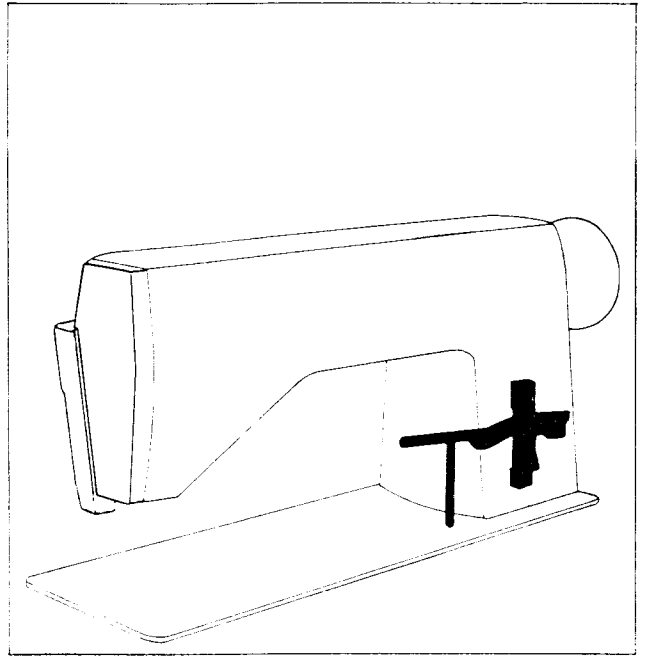
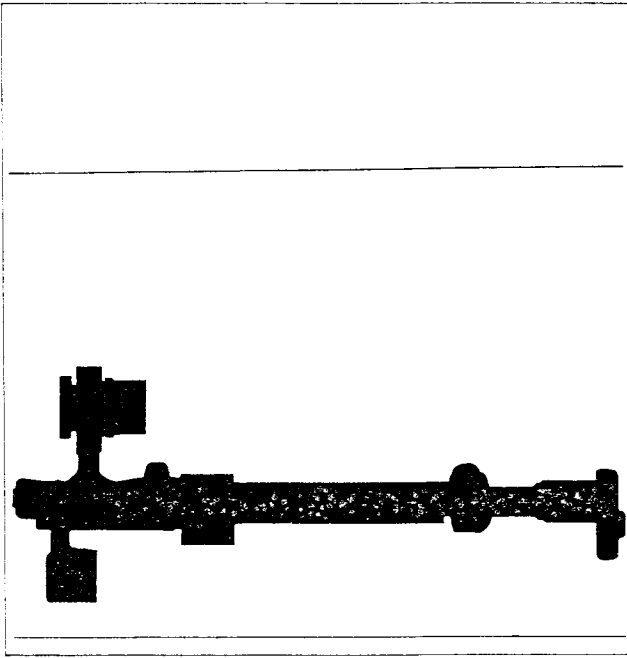
Parts List for 660A51 Machine

| Ref No. | Part No.<br>For Ordering | Description                                                                                       | Amt. |
|---------|--------------------------|---------------------------------------------------------------------------------------------------|------|
| 1       | 200346(803)              | Feed Driving Rock Shaft Centre Set Screw                                                          | 2    |
| 2       | 270941                   | Feed Driving Rock Shaft Centre                                                                    | 2    |
| 3       | 270942                   | Feed Driving Rock Shaft Centre Insert (nylon)                                                     | 2    |
| 4       | 200394(803)              | Feed Bar Hinge Pin Set Screw                                                                      | 2    |
| 5       | 101984                   | Feed Driving Rock Shaft with two each 200394(803) and 270942                                      |      |
| 6       | 106313                   | Feed Lifting Connection Collar with two 443(830)                                                  |      |
| 7       | 443(830)                 | Feed Lifting Connection Collar Set Screw                                                          | 2    |
| 8       | 106415                   | Feed Lifting Connection with Feed Lifting Eccentric which<br>includes 200382(830) and 201220(830) |      |
| 9       | 201220(830)              | Feed Lifting Eccentric Position Screw                                                             |      |
| 10      | 200382(830)              | Feed Lifting Eccentric Set Screw                                                                  |      |
| 11      | 270941                   | Feed Lifting Rock Shaft Centre                                                                    | 2    |
| 12      | 200346(803)              | Feed Lifting Rock Shaft Centre Set Screw                                                          | 2    |
| 13      | 270942                   | Feed Lifting Rock Shaft Centre Insert (nylon)                                                     | 2    |
| 14      | 106315                   | Feed Lifting Rock Shaft with 350595(830) and two 270942                                           |      |
| 15      | 106314                   | Feed Lifting Connection Hinge Stud                                                                |      |
| 16      | 350595(830)              | Feed Lifting Connection Hinge Stud Set Screw                                                      |      |
| 17      | 502541                   | Feed Bar Hinge Pin                                                                                |      |
| 18      | 101982                   | Feed Bar Hinge Pin Lubricating Felt.                                                              |      |
| 19      | 93930                    | Feed Bar Hinge Pin Thrust Washer                                                                  | 2    |
| 20      | 93969                    | Feed Bar                                                                                          |      |
| 21      | 107766                   | Feed Dog                                                                                          |      |
| 22      | 50117(830)               | Feed Dog Screw                                                                                    | 2    |
| 23      | 272110                   | Feed Bar Lifting Link                                                                             |      |
| 24      | 1423(803)                | Feed Bar Lifting Link Cap Screw                                                                   | 2    |
| 25      | 272115                   | Feed Bar Lifting Link Oiling Wick                                                                 |      |
| 26      | 272111                   | Feed Bar Lifting Link Oiling Wick Clamp                                                           |      |
| 27      | 106316                   | Feed Lifting Rock Shaft 106315 with 106314                                                        |      |



## Parts List for 660A51 Machine

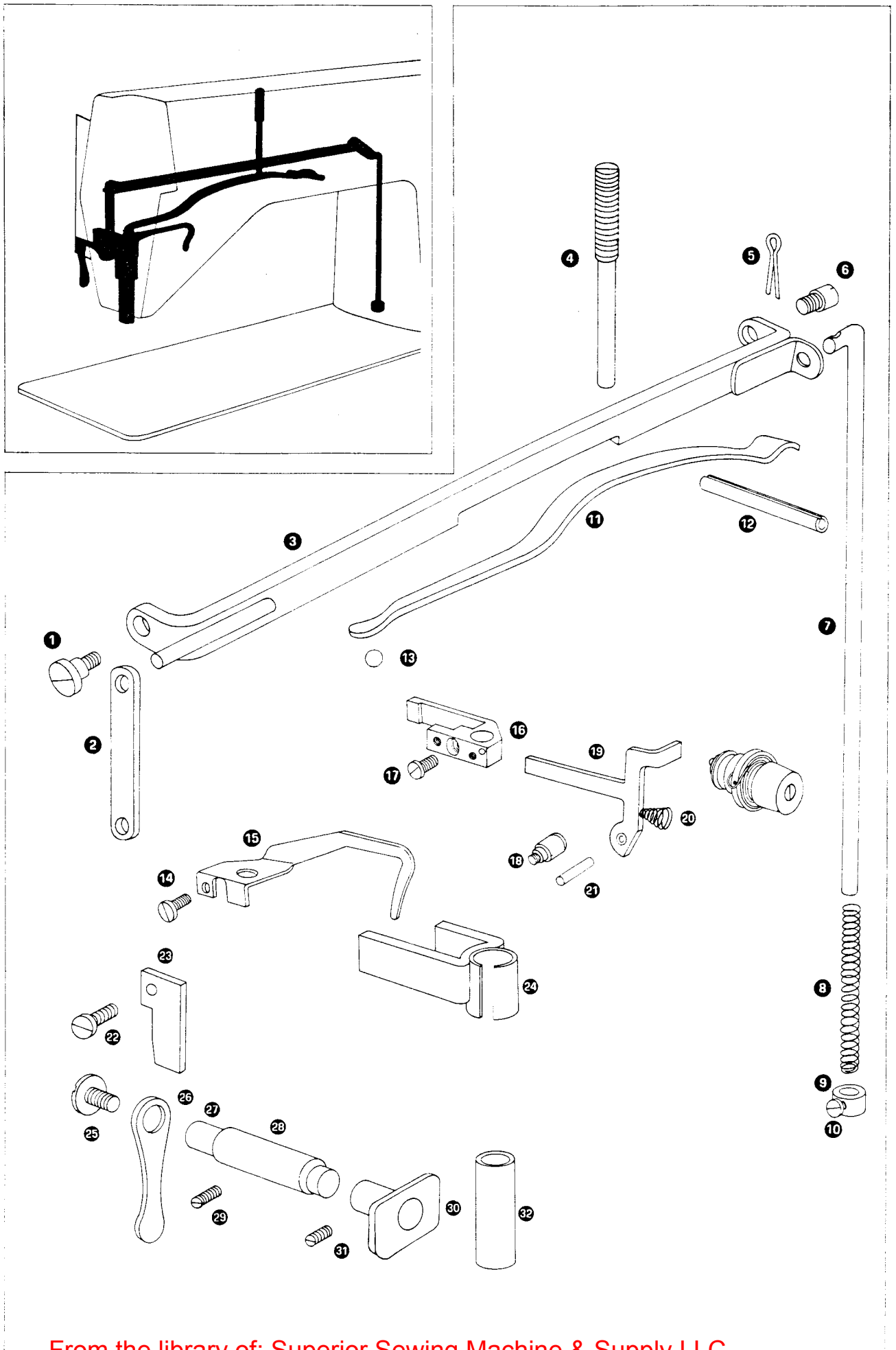
| Ref. No. | Part No.<br>For Ordering | Description                                                                                 | Amt.<br>Req. |
|----------|--------------------------|---------------------------------------------------------------------------------------------|--------------|
| 1        | 276159                   | Feed Regulator and Feed Reversing Lever Hinge Pin                                           |              |
| 2        | 350477(803)              | Feed Regulator and Feed Reversing Lever Hinge Pin Set Screw                                 |              |
| 3        | 106317                   | Feed Regulator and Feed Reversing Lever                                                     |              |
| 4        | 201520(813)              | Feed Regulator and Feed Reversing Lever Connection Hinge Screw<br>(upper) Nut               |              |
| 5        | 350509(803)              | Feed Regulator and Feed Reversing Lever Connection Hinge Screw<br>(upper)                   |              |
| 6        | 106344                   | Stitch Indicator Block                                                                      |              |
| 7        | 742(809)                 | Stitch Indicator Block Screw                                                                | 2            |
| 8        | 113183                   | Feed Regulator and Feed Reversing Lever Thumb Nut                                           |              |
| 9        | 106321                   | Feed Regulator and Feed Reversing Lever Handle Spring                                       |              |
| 10       | 106319                   | Feed Regulator and Feed Reversing Lever Handle                                              |              |
| 11       | 81810                    | Feed Regulator and Feed Reversing Lever Handle Retaining Pin                                |              |
| 12       | 201107(803)              | Feed Regulator and Feed Reversing Lever Connection Hinge Screw<br>(lower)                   |              |
| 13       | 106318                   | Feed Regulator and Feed Reversing Lever Connection                                          |              |
| 14       | 276162                   | Feed Reversing Shaft Bushing (back)                                                         |              |
| 15       | 200382(830)              | Feed Reversing Shaft Bushing (back) Set Screw                                               |              |
| 16       | 200092(806)              | Feed Reversing Shaft Spring Adjusting Collar Set Screw                                      | 2            |
| 17       | 276167                   | Feed Reversing Shaft Spring Adjusting Collar with two 200092(806)                           |              |
| 18       | 276166                   | Feed Reversing Shaft Spring                                                                 |              |
| 19       | 276179                   | Feed Reversing Shaft Bushing (front)                                                        |              |
| 20       | 200362(830)              | Feed Reversing Shaft Bushing (front) Set Screw                                              |              |
| 21       | 276161                   | Feed Reversing Shaft                                                                        |              |
| 22       | 106413                   | Feed Driving Connection with Feed Driving Eccentric, also with<br>1259(830) and 109768(833) |              |
| 23       | 1259(833)                | Feed Driving Eccentric Set Screw                                                            |              |
| 24       | 109768(833)              | Feed Driving Eccentric Position Screw                                                       |              |
| 25       | 276171                   | Feed Driving Connection Link Hinge Pin with 244071                                          |              |
| 26       | 244071                   | Feed Driving Connection Link Hinge Pin Oil Packing (Wick)                                   |              |
| 27       | 106414                   | Feed Driving Connection Link                                                                |              |
| 28       | 106419                   | Feed Driving Connection Crank with 141207(805)                                              |              |
| 29       | 141207(805)              | Feed Driving Connection Crank Pinch Screw                                                   | 2            |
| 30       | 16478                    | Feed Reverse Mechanism Support Link                                                         |              |
| 31       | 16479                    | Feed Reverse Mechanism Support Stud                                                         |              |
| 32       | 200362(830)              | Feed Reverse Mechanism Support Stud Set Screw                                               |              |
| 33       | 16487                    | Feed Reversing Shaft Crank and Feed Driving Connection Connecting<br>Link Wearing Disc      | 2            |
| 34       | 16486                    | Feed Reversing Shaft Crank and Feed Driving Connection Connecting<br>Link with 114044(830)  |              |
| 35       | 114044(830)              | Feed Driving Connection Link Hinge Pin Set Screw                                            |              |
| 36       | 16483                    | Feed Reversing Shaft Link with 458(830) and 141207(805)                                     |              |
| 37       | 458(830)                 | Feed Reversing Shaft Link Hinge Stud Set Screw                                              |              |
| 38       | 141207(805)              | Feed Reversing Shaft Link Pinch Screw                                                       |              |
| 39       | 276046                   | Feed Reversing Shaft Link Hinge Stud Oil Packing (wick)                                     |              |
| 40       | 276164                   | Feed Reversing Shaft Link Hinge Stud with 276046                                            |              |
| 41       | 107552                   | Stitch Indicator                                                                            |              |
| 42       | 51369(809)               | Stitch Indicator Screw                                                                      | 2            |
| 43       | 107991                   | Feed Regulator and Feed Reversing Lever Insert                                              |              |





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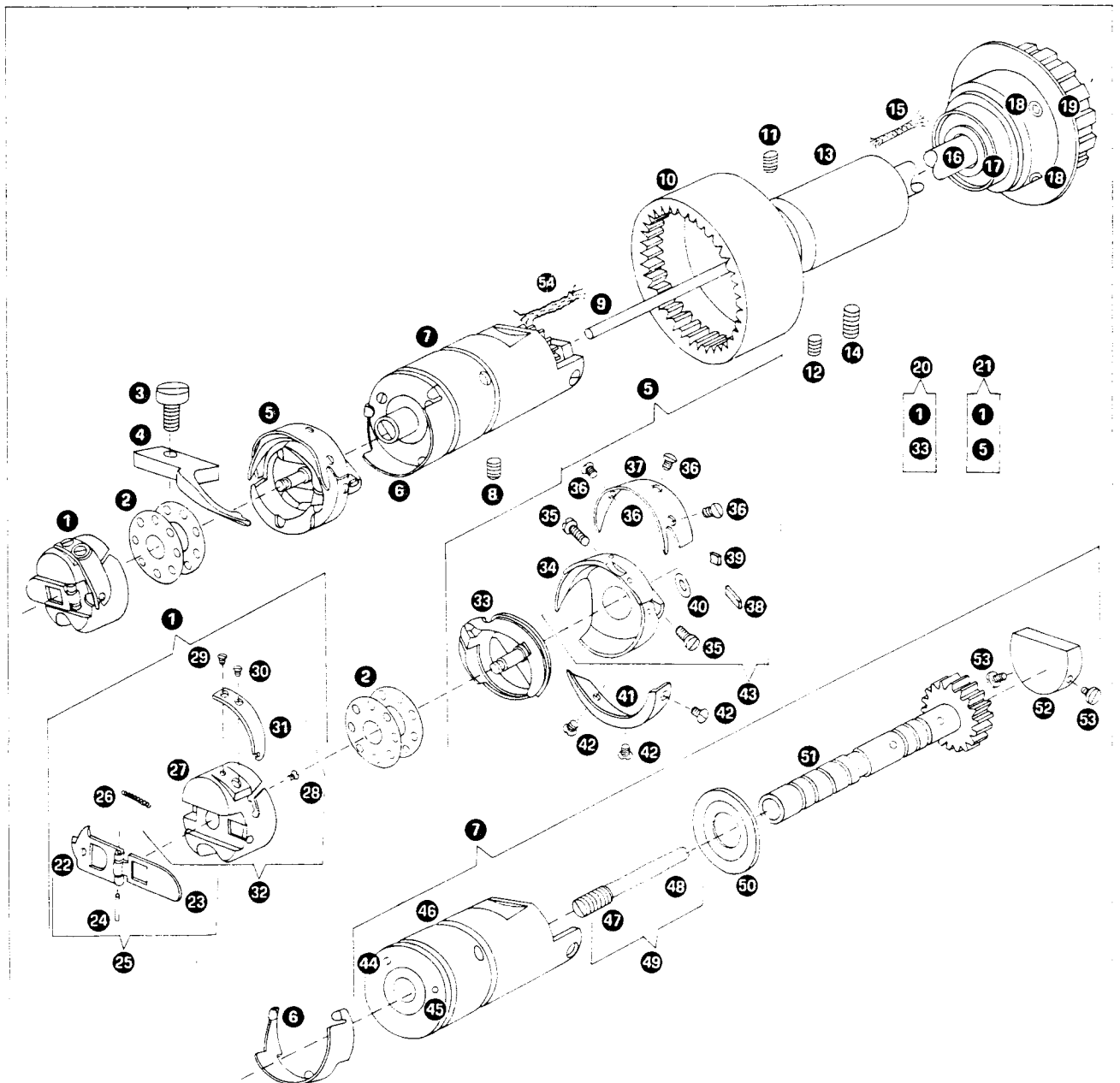
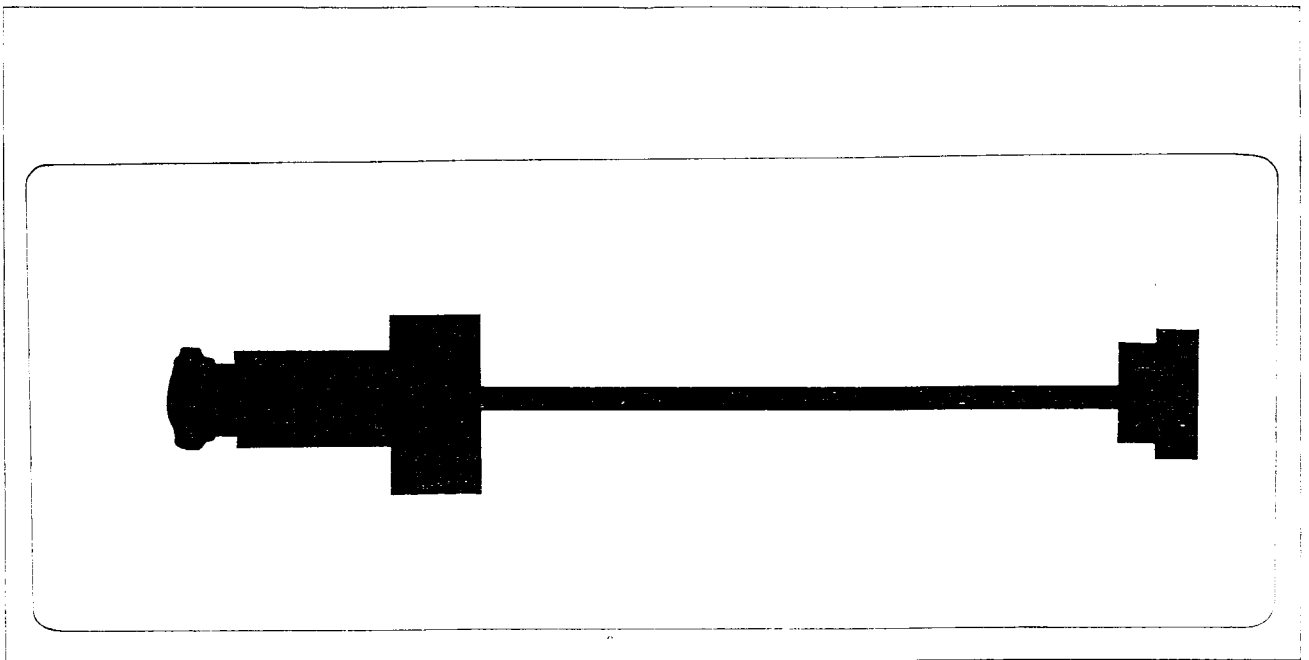
| Ref. No. | Part No.<br>For Ordering | Description                                                | Amt.<br>Req. |
|----------|--------------------------|------------------------------------------------------------|--------------|
| 1        | 200272(833)              | Knee Lifter Rock Frame Hinge Screw (front)                 |              |
| 2        | 107757                   | Knee Lifter Lifting Link                                   |              |
| 3        | 276109                   | Knee Lifter Rock Frame                                     |              |
| 4        | 350435(803)              | Presser Bar Spring Screw (pressure regulating)             |              |
| 5        | 202302                   | Knee Lifter Lifting Rod Cotter Pin                         |              |
| 6        | 200679(806)              | Knee Lifter Rock Frame Hinge Screw (back)                  |              |
| 7        | 107758                   | Knee Lifter Lifting Rod with 202302                        |              |
| 8        | 276016                   | Knee Lifter Lifting Rod Spring                             |              |
| 9        | 227227                   | Knee Lifter Lifting Rod Spring Collar with 200113(806)     |              |
| 10       | 200113(806)              | Knee Lifter Lifting Rod Spring Collar Set Screw            |              |
| 11       | 106336                   | Presser Bar Spring                                         |              |
| 12       | 106394                   | Presser Bar Spring Locating Pin (roll pin)                 |              |
| 13       | 276025                   | Presser Bar Ball                                           |              |
| 14       | 190(809)                 | Slack Thread Regulator Screw                               |              |
| 15       | 106342                   | Slack Thread Regulator                                     |              |
| 16       | 106335                   | Presser Bar Position Guide with 158(803)                   |              |
| 17       | 158(803)                 | Presser Bar Position Guide Pinch Screw                     |              |
| 18       | 114065(830)              | Knee Lifter Link Hinge Screw                               |              |
| 19       | 106345                   | Tension Releasing Lever                                    |              |
| 20       | 12329                    | Tension Releasing Lever Spring                             |              |
| 21       | 12398                    | Tension Releasing Lever Hinge Pin                          |              |
| 22       | 208(830)                 | Presser Bar Lifting Releasing Lever Bracket Retainer Screw |              |
| 23       | 107713                   | Presser Bar Lifting Releasing Lever Bracket Retainer       |              |
| 24       | 107714                   | Presser Bar Lifting Releasing Lever Bracket                |              |
| 25       | 1480(806)                | Presser Bar Lifter Lever Set Screw                         |              |
| 26       | 17596                    | Presser Bar Lifter Lever                                   |              |
| 27       | 107775                   | Presser Bar Lifter Shaft                                   |              |
| 28       | 107776                   | Presser Bar Lifter Shaft Bush                              |              |
| 29       | 449(830)                 | Presser Bar Lifter Shaft Bush Set Screw                    |              |
| 30       | 107768                   | Presser Bar Lifter with 350595(869)                        |              |
| 31       | 350595(869)              | Presser Bar Lifter Screw                                   |              |
| 32       | 107700                   | Presser Bar Bushing                                        |              |



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| Ref. No. | Part No.<br>For Ordering | Description                                                                                                                  | Amt.<br>Req. |
|----------|--------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1        | 149063                   | Rotating Hook Bobbin Case complete Nos. 592(805), 2975, 40393 and 149061                                                     |              |
| 2        | 270010                   | Rotating Hook Bobbin                                                                                                         |              |
| 3        | 200077(804)              | Rotating Hook Bobbin Case Holder Position Bracket Screw                                                                      |              |
| 4        | 272131                   | Rotating Hook Bobbin Case Holder Position Bracket                                                                            |              |
| 5        | 174091                   | Rotating Hook 174090 with 143346, 270876 and three 1367(805)                                                                 |              |
| 6        | 270879                   | Rotating Hook Oil Guard                                                                                                      |              |
| 7        | 272229                   | Rotating Hook Shaft Bushing complete, Nos. 270044, 270164, 270880, 272228<br>276059, 276062, 350498(805) and two 201215(804) |              |
| 8        | 200346(803)              | Rotating Hook Shaft Bushing Set Screw                                                                                        |              |
| 9        | 276517                   | Rotating Hook Driving Shaft Oil Lead Wire                                                                                    |              |
| 10       | 276047                   | Rotating Hook Driving Shaft Gear (internal teeth) with<br>200382(833) and 201220(833)                                        |              |
| 11       | 201220(833)              | Rotating Hook Driving Shaft Gear Position Screw                                                                              |              |
| 12       | 200382(833)              | Rotating Hook Driving Shaft Gear Set Screw                                                                                   |              |
| 13       | 276045                   | Rotating Hook Driving Shaft Bushing with 276046                                                                              |              |
| 14       | 200346(803)              | Rotating Hook Driving Shaft Bushing Set Screw                                                                                |              |
| 15       | 276046                   | Rotating Hook Driving Shaft Bushing Oil Packing (wick)                                                                       |              |
| 16       | 106429                   | Rotating Hook Driving Shaft                                                                                                  |              |
| 17       | 272144                   | Rotating Hook Driving Shaft Ball Bearing                                                                                     |              |
| 18       | 114063(869)              | Rotating Hook Driving Shaft Connection Belt Pulley Set Screw                                                                 | 2            |
| 19       | 106380                   | Rotating Hook Driving Shaft Connection Belt Pulley with two 114063(869)                                                      |              |
| 20       | 107563                   | Rotating Hook Bobbin Case 149063 with 143346                                                                                 |              |
| 21       | 107560                   | Rotating Hook 174091 with 149063                                                                                             |              |
| 22       | 40392                    | Rotating Hook Bobbin Case Latch                                                                                              |              |
| 23       | 125320                   | Rotating Hook Bobbin Case Latch Lever                                                                                        |              |
| 24       | 2974                     | Rotating Hook Bobbin Case Latch Lever Fulcrum Pin                                                                            |              |
| 25       | 40393                    | Rotating Hook Bobbin Case Hinge, Nos. 2974, 40392 and 125320                                                                 |              |
| 26       | 2975                     | Rotating Hook Bobbin Case Latch Spring                                                                                       |              |
| 27       | 149060                   | Rotating Hook Bobbin Case                                                                                                    |              |
| 28       | 592(805)                 | Rotating Hook Bobbin Case Latch Stop Screw                                                                                   |              |
| 29       | 1380(805)                | Rotating Hook Bobbin Case Tension Spring Screw                                                                               |              |
| 30       | 591(806)                 | Rotating Hook Bobbin Case Tension Spring Regulating Screw                                                                    |              |
| 31       | 40394                    | Rotating Hook Bobbin Case Tension Spring                                                                                     |              |
| 32       | 149061                   | Rotating Hook Bobbin Case 149060 with 591(806), 1380(805) and 40394                                                          |              |
| 33       | 143346                   | Rotating Hook Bobbin Case Holder                                                                                             |              |
| 34       | 174089                   | Rotating Hook with 143301, 270878 and two 1253(830)                                                                          |              |
| 35       | 1253(830)                | Rotating Hook Set Screw                                                                                                      | 2            |
| 36       | 1053(805)                | Rotating Hook Thread Guard Screw                                                                                             | 4            |
| 37       | 270874                   | Rotating Hook Thread Guard                                                                                                   |              |
| 38       | 143351                   | Rotating Hook Wiper                                                                                                          |              |
| 39       | 143301                   | Rotating Hook Oil Wick (felt)                                                                                                |              |
| 40       | 270878                   | Rotating Hook Oil Retaining Washer (felt)                                                                                    |              |
| 41       | 270876                   | Rotating Hook Section                                                                                                        |              |
| 42       | 1367(805)                | Rotating Hook Section Screw                                                                                                  | 3            |
| 43       | 174090                   | Rotating Hook 174089 with 143351, 270874(806) and<br>four 1053(805)                                                          |              |
| 44       | 350498(805)              | Rotating Hook Shaft Oil Regulating Screw                                                                                     |              |
| 45       | 270880                   | Rotating Hook Shaft Bushing Oil Packing (wick)                                                                               |              |
| 46       | 272228                   | Rotating Hook Shaft Bushing                                                                                                  |              |
| 47       | 81484                    | Rotating Hook Shaft Oil Filter Wick Holder                                                                                   |              |
| 48       | 202423                   | Rotating Hook Shaft Oil Filter Wick                                                                                          |              |
| 49       | 276062                   | Rotating Hook Shaft Oil Filter, complete. Nos. 202423 and 81484                                                              |              |
| 50       | 270044                   | Rotating Hook Shaft Thrust Washer                                                                                            |              |
| 51       | 276059                   | Rotating Hook Shaft                                                                                                          |              |
| 52       | 270164                   | Rotating Hook Shaft End Bearing                                                                                              |              |
| 53       | 201215(804)              | Rotating Hook Shaft End Bearing Screw                                                                                        | 2            |
| 54       | 276518                   | Rotating Hook Driving Shaft Oil Lead Wick                                                                                    |              |

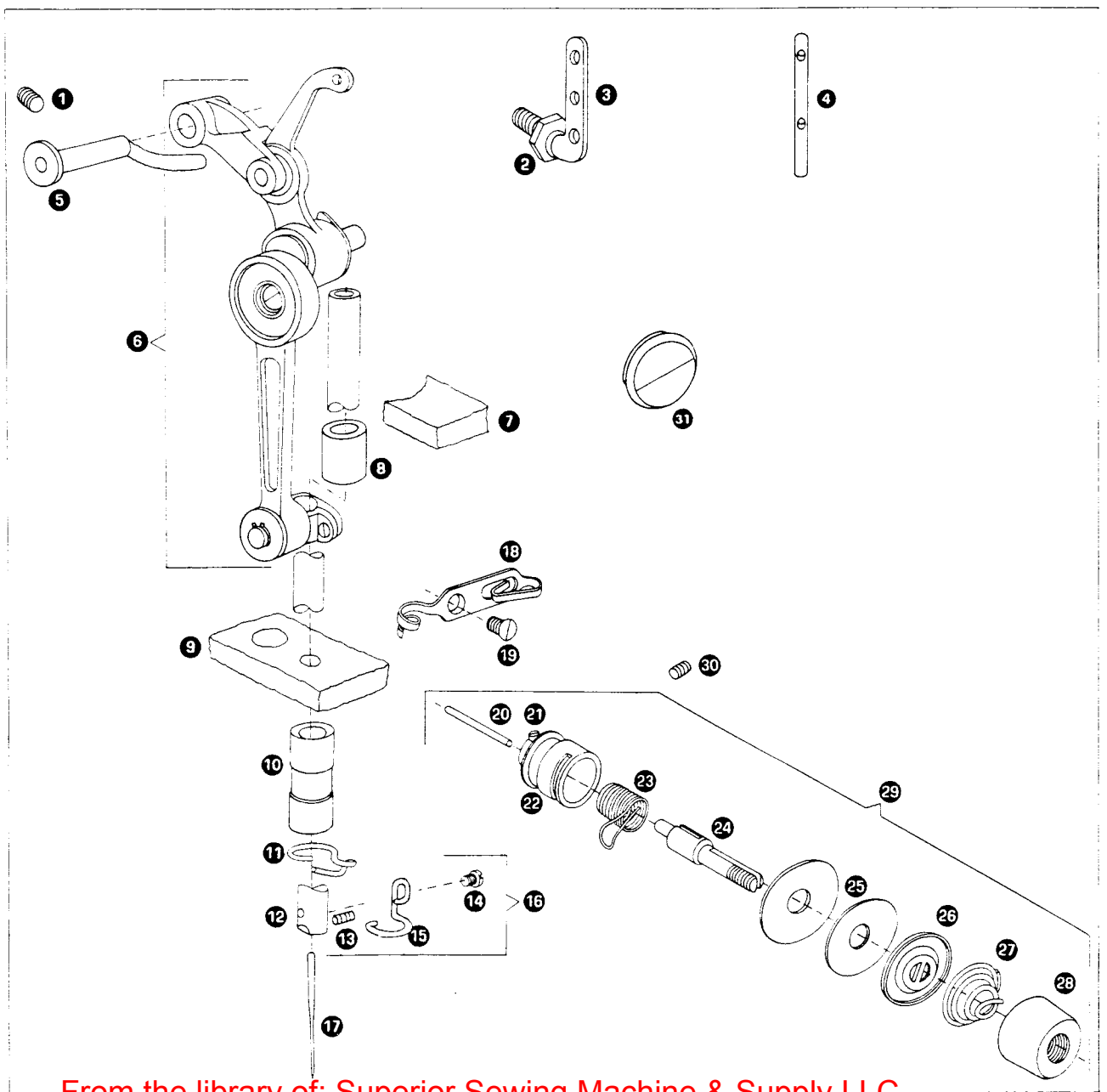
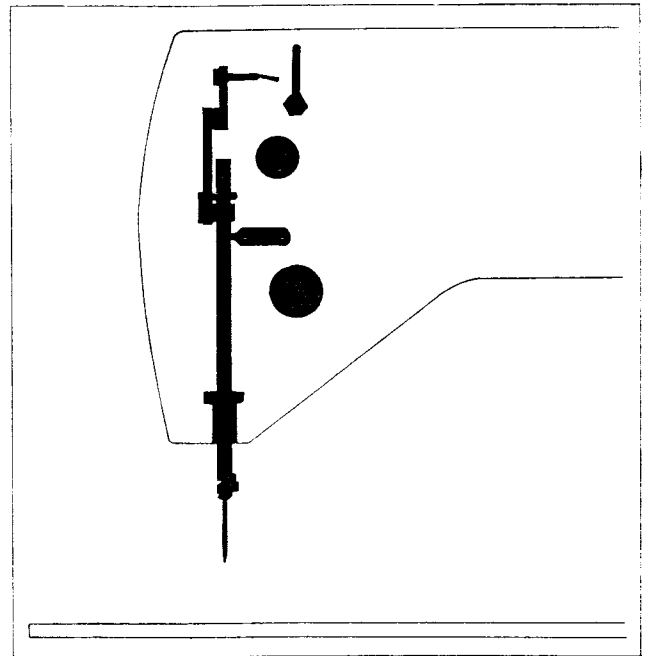
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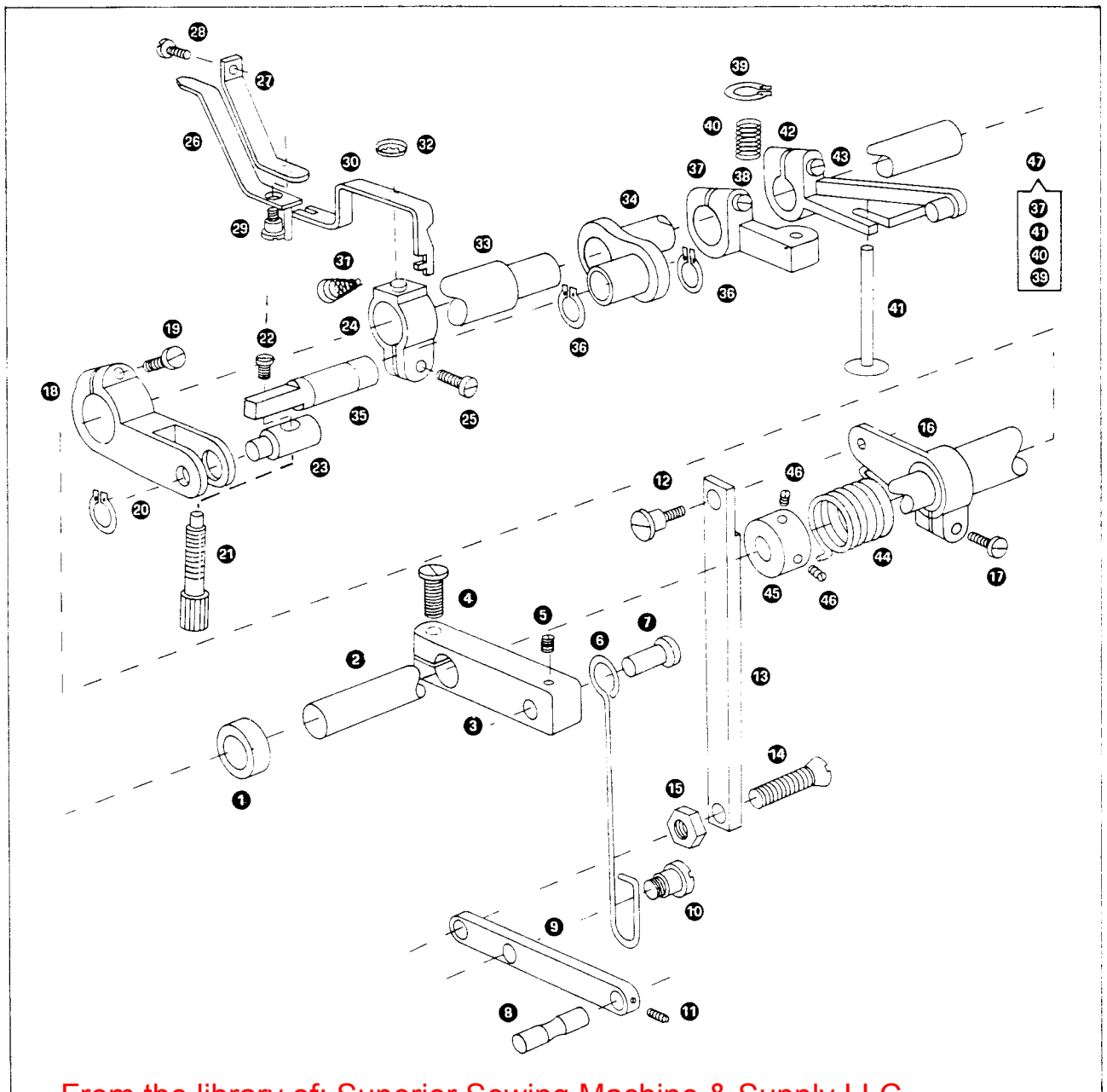
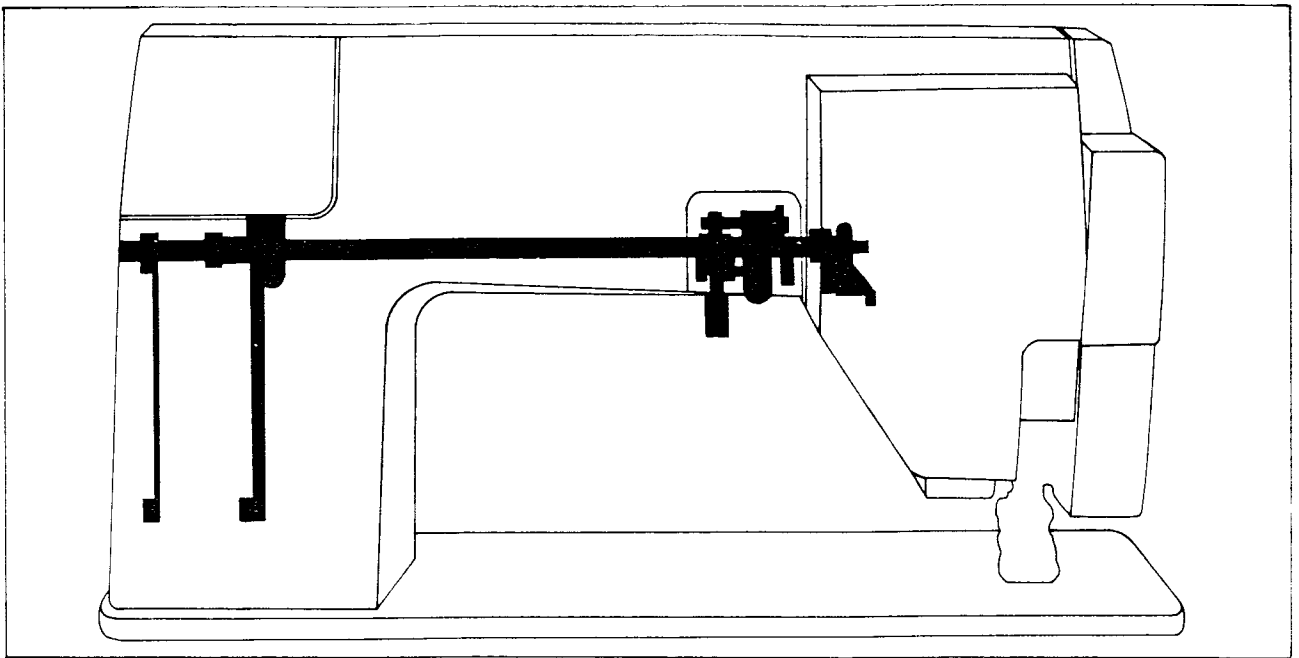
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|--------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 435(830)                 | Thread Take-up Lever Link Hinge Stud Set Screw                                               |              |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1654                     | Thread Retainer Lock Nut                                                                     |              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16377                    | Thread Retainer                                                                              |              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 52239                    | Arm Spool Pin and Thread Eyelet (packed with accessories)                                    |              |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106357                   | Thread Take-up Lever Link Hinge Stud                                                         |              |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106348                   | Thread Take-up Mechanism                                                                     |              |
| Note: The major components of the Thread Take-up Mechanism are selectively mated. Therefore only a complete replacement mechanism will be supplied from Clydebank Factory, should any of the individual major components be damaged. However, the Wearing Plate, No. 106349 Nylon Washer, No. 106372, Circlip No. 239241, Cap Screw, No. 140231 and Pinch Screw, No. 140706 can be supplied and fitted as individual items without disturbing the selective mating of the major components. |                          |                                                                                              |              |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106397                   | Needle Bar Oiling Felt (upper)                                                               |              |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106325                   | Needle Bar Bushing (upper)                                                                   |              |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 270058                   | Needle Bar Oiling Felt (lower)                                                               |              |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 106424                   | Needle Bar Bushing (lower)                                                                   |              |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 98923                    | Needle Bar Bushing (lower) Thread Eyelet                                                     | 2            |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107943                   | Needle Bar with 141087(869)                                                                  |              |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 141087(869)              | Needle Set Screw                                                                             |              |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 140036(830)              | Needle Bar Thread Guide Screw                                                                |              |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107819                   | Needle Bar Thread Guide                                                                      |              |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107818                   | Needle Bar 107943 with 140036(830) and 107819                                                |              |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cat. 1361                | Needle, size 14                                                                              |              |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 106346                   | Thread Eyelet and Thread Guard (front of arm)                                                |              |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 51384(809)               | Thread Eyelet and Thread Guard (front of arm) Screw                                          |              |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 32574                    | Tension Releasing Pin                                                                        |              |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50305(803)               | Tension Stud Set Screw                                                                       |              |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 52083                    | Thread Take-up Spring Regulator with 50305(803)                                              |              |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 52394                    | Thread Take-up Spring                                                                        |              |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 140873(803)              | Tension Stud                                                                                 |              |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2102                     | Tension Disc                                                                                 | 2            |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 147151                   | Tension Releasing Disc                                                                       |              |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 147152                   | Tension Spring                                                                               |              |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 106373                   | Tension Regulating Cap                                                                       |              |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 106374                   | Tension complete, Nos. 32574, 52083, 52394, 106373, 140873(803), 147151, 147152 and two 2102 |              |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 448(803)                 | Thread Take-up Spring Regulator Set Screw                                                    |              |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 140610(809)              | Thread Take-up Crank Clamping Screw Hole Plug Screw                                          |              |



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| Ref. No. | Part No.<br>For Ordering | Description                                                                     | Amt.<br>Req. |
|----------|--------------------------|---------------------------------------------------------------------------------|--------------|
| 1        | 107675                   | Upper Feed Reversing Shaft (inner) Bushing                                      |              |
| 2        | 107662                   | Upper Feed Reversing Shaft (inner)                                              |              |
| 3        | 107729                   | Foot Operated Upper Feed Adjusting Crank with 50429(830) and 141207(830)        |              |
| 4        | 141207(830)              | Foot Operated Upper Feed Adjusting Crank Clamping Screw                         |              |
| 5        | 50429(830)               | Foot Operated Upper Feed Adjusting Crank Hinge Stud Set Screw                   |              |
| 6        | 107718                   | Foot Operated Upper Feed Adjusting Lever Connection                             |              |
| 7        | 16494                    | Foot Operated Upper Feed Adjusting Crank Hinge Stud                             |              |
| 8        | 276159                   | Foot Operated Upper Feed Adjusting Lever Hinge Pin                              |              |
| 9        | 107717                   | Foot Operated Upper Feed Adjusting Lever                                        |              |
| 10       | 201107                   | Foot Operated Upper Feed Adjusting Lever Hinge Stud                             |              |
| 11       | 350477(803)              | Foot Operated Upper Feed Adjusting Lever Hinge Pin Set Screw                    |              |
| 12       | 201107                   | Upper Feed Regulator and Reversing Lever Connection Hinge Stud (upper)          |              |
| 13       | 106318                   | Upper Feed Regulator and Reversing Lever Connection                             |              |
| 14       | 350509(803)              | Upper Feed Regulator and Reversing Lever Connection Hinge Screw (lower)         |              |
| 15       | 210520(813)              | Upper Feed Regulator and Reversing Lever Connection Hinge Screw (lower) Nut     |              |
| 16       | 107668                   | Upper Feed Reversing Shaft (outer) Crank (rear) with 966(803)                   |              |
| 17       | 966(803)                 | Upper Feed Reversing Shaft (outer) Crank (rear) Clamping Screw                  |              |
| 18       | 107665                   | Upper Feed Reversing Shaft (outer) Adjusting Crank with 966(803)                |              |
| 19       | 966(803)                 | Upper Feed Reversing Shaft (outer) Adjusting Crank Clamping Screw               |              |
| 20       | 107779                   | Upper Feed Reversing Shaft (outer) Adjusting Crank Pivot Pin Retaining Circlip  |              |
| 21       | 107672                   | Upper Feed Adjusting Crank Screw Stud                                           |              |
| 22       | 810(830)                 | Upper Feed Adjusting Crank Screw Stud Retaining Screw                           |              |
| 23       | 107673                   | Upper Feed Reversing Shaft (outer) Adjusting Crank Pivot Pin                    |              |
| 24       | 107772                   | Upper Feed Indicator Clamp                                                      |              |
| 25       | 898(803)                 | Upper Feed Indicator Clamp Screw                                                |              |
| 26       | 107733                   | Upper Feed Indicator                                                            |              |
| 27       | 107737                   | Upper Feed Indicator Support Bracket                                            |              |
| 28       | 51369(830)               | Upper Feed Indicator Support Bracket Screw                                      |              |
| 29       | 107                      | Upper Feed Indicator Hinge Screw                                                |              |
| 30       | 107736                   | Upper Feed Indicator Movable Arm                                                |              |
| 31       | 108059                   | Upper Feed Indicator Spring                                                     |              |
| 32       | 108111                   | Upper Feed Indicator Clamp Pivot Pin Fastener                                   |              |
| 33       | 107660                   | Upper Feed Reversing Shaft (outer)                                              |              |
| 34       | 107663                   | Upper Feed Adjusting Crank                                                      |              |
| 35       | 107686                   | Upper Feed Adjusting Crank Pivot Pin                                            |              |
| 36       | 107777                   | Upper Feed Adjusting Crank Pivot Pin Circlip                                    | 2            |
| 37       | 107666                   | Upper Feed Reversing Shaft (outer) Crank (front) with 966(803)                  |              |
| 38       | 966(803)                 | Upper Feed Reversing Shaft (outer) Crank (front) Clamping Screw                 |              |
| 39       | 165472                   | Upper Feed Reversing Shaft (outer) Crank (front) Spring Retaining Circlip       |              |
| 40       | 107670                   | Upper Feed Reversing Shaft (outer) Crank (front) Spring                         |              |
| 41       | 167671                   | Upper Feed Reversing Shaft (outer) Crank (front) Spring Pin                     |              |
| 42       | 107667                   | Upper Feed Reversing Crank with 966(803)                                        |              |
| 43       | 966(803)                 | Upper Feed Reversing Crank Clamping Screw                                       |              |
| 44       | 108082                   | Upper Feed Reversing Shaft (inner) Spring                                       |              |
| 45       | 108083                   | Upper Feed Reversing Shaft (inner) Spring Collar with two 183(806)              |              |
| 46       | 183(806)                 | Upper Feed Reversing Shaft (inner) Spring Collar Set Screws                     | 2            |
| 47       | 107762                   | Upper Feed Reversing Shaft (outer) Crank (front) with 107670, 107671 and 165472 |              |

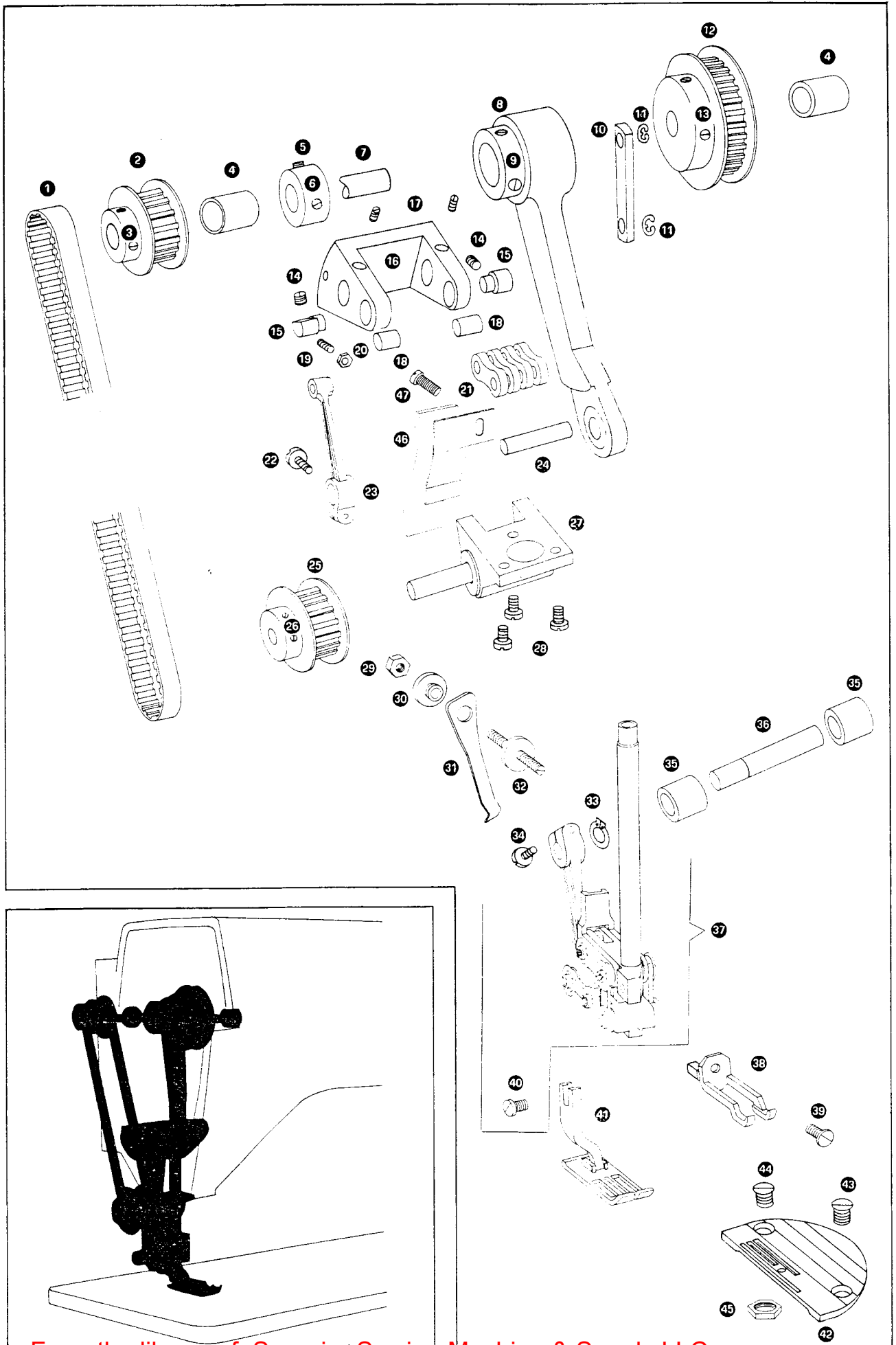


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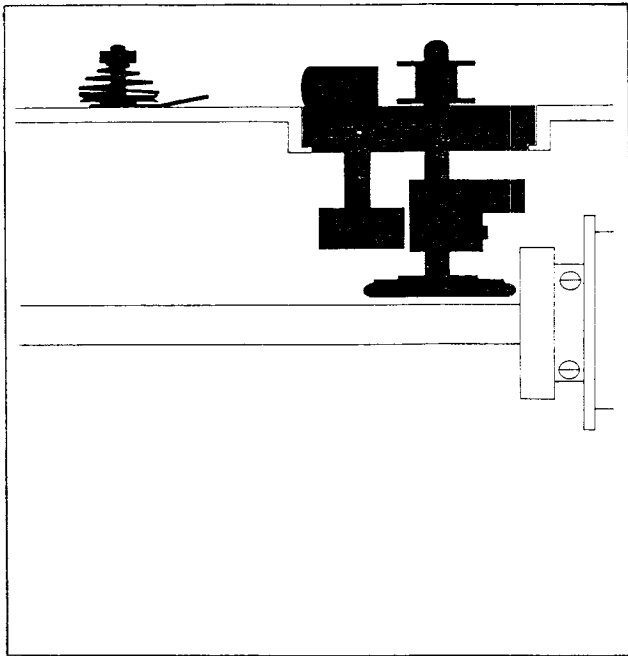
Parts List for 660A51 Machine

| Ref. No. | Part No.<br>For Ordering | Description                                                                                     | Amt.<br>Req. |
|----------|--------------------------|-------------------------------------------------------------------------------------------------|--------------|
| 1        | 107720                   | Vibrating Presser Foot Lifting Shaft (eccentric) Connection Belt                                |              |
| 2        | 107770                   | Upper Feed Shaft Belt Pulley (small) with two 114126(869)                                       |              |
| 3        | 114126(869)              | Upper Feed Shaft Belt Pulley (small) Set Screw                                                  |              |
| 4        | 107679                   | Upper Feed Shaft Bushing (short)                                                                | 2            |
| 5        | 107760                   | Upper Feed Shaft Collar with two 624(830)                                                       |              |
| 6        | 624(830)                 | Upper Feed Shaft Collar Set Screw                                                               | 2            |
| 7        | 107678                   | Upper Feed Shaft                                                                                |              |
| 8        | 107681                   | Upper Feed Reversing Mechanism Connecting Link                                                  |              |
| 9        | 1259(833)                | Upper Feed Driving Eccentric Set Screw                                                          | 2            |
| 10       | 107674                   | Upper Feed Reversing Mechanism Adjusting Link                                                   |              |
| 11       | 107716                   | Upper Feed Reversing Mechanism Adjusting Link Retaining Circlip                                 |              |
| 12       | 107677                   | Upper Feed Shaft Connection Belt Pulley (large) with two 114125(869)                            |              |
| 13       | 114125(869)              | Upper Feed Shaft Connection Belt Pulley (large) Screw                                           |              |
| 14       | 449(830)                 | Upper Feed Reversing Mechanism Bracket Pivot Pin Set Screw                                      |              |
| 15       | 107682                   | Upper Feed Reversing Mechanism Bracket Pivot Pin                                                | 2            |
| 16       | 107669                   | Upper Feed Reversing Mechanism Bracket with two 449(830)                                        |              |
| 17       | 449(830)                 | Upper Feed Reversing Mechanism Link Pin (short) (left and right) Set Screw                      | 2            |
| 18       | 107706                   | Upper Feed Reversing Mechanism Link Pin (short)                                                 | 3            |
| 19       | 440(830)                 | Upper Feed Reversing Mechanism Bracket Stop Screw                                               |              |
| 20       | 1700(803)                | Upper Feed Reversing Mechanism Bracket Stop Screw Nut                                           |              |
| 21       | 107705                   | Upper Feed Reversing Mechanism Link                                                             | 4            |
|          |                          | Note: 107705 can be supplied only as, a matched inner pair<br>or a matched outer pair.          |              |
| 22       | 898(803)                 | Upper Feed Reversing Mechanism Connecting Lever Clamping Screw                                  |              |
| 23       | 107683                   | Upper Feed Reversing Mechanism Connecting Lever with 898(803)<br>and 107706                     |              |
| 24       | 107712                   | Upper Feed Reversing Mechanism Link Pin (long)                                                  |              |
| 25       | 107699                   | Vibrating Presser Foot Lifting Shaft (eccentric) Connection Belt Pulley<br>with two 114126(869) |              |
| 26       | 114126(869)              | Vibrating Presser Foot Lifting Shaft (eccentric) Connection Belt Pulley<br>Set Screw            | 2            |
| 27       | 107696                   | Vibrating Presser Foot Lifting Shaft (eccentric) Bracket                                        |              |
| 28       | 185(803)                 | Vibrating Presser Foot Lifting Shaft (eccentric) Bracket Screw                                  | 3            |
| 29       | 1700                     | Vibrating Presser Foot Lifting Shaft (eccentric) Bracket Spring Screw Nut                       |              |
| 30       | 107730                   | Vibrating Presser Foot Lifting Shaft (eccentric) Bracket Spring Screw<br>Washer                 |              |
| 31       | 107701                   | Vibrating Presser Foot Lifting Shaft (eccentric) Bracket Spring                                 |              |
| 32       | 114124                   | Vibrating Presser Foot Lifting Shaft (eccentric) Bracket Spring Screw                           |              |
| 33       | 239241                   | Vibrating Presser Foot Connecting Lever Shaft Circlip                                           |              |
| 34       | 350606(869)              | Vibrating Presser Foot Connecting Lever Clamping Screw                                          |              |
| 35       | 107771                   | Vibrating Presser Foot Connecting Lever Shaft Bushing                                           | 2            |
| 36       | 107685                   | Vibrating Presser Foot Connecting Lever Shaft                                                   |              |
| 37       | 107774                   | Vibrating Presser Foot Mechanism Assembly with 190(809)                                         |              |
| 38       | 107710                   | Vibrating Presser Foot                                                                          |              |
| 39       | 190(809)                 | Vibrating Presser Foot Screw                                                                    |              |
| 40       | 190(809)                 | Presser Foot Screw                                                                              |              |
| 41       | 107759                   | Presser Foot (hinged) complete                                                                  |              |
| 42       | 107723                   | Throat Plate                                                                                    |              |
| 43       | 691(806)                 | Throat Plate Screw (front)                                                                      |              |
| 44       | 50018                    | Throat Plate Screw (rear)                                                                       |              |
| 45       | 1698                     | Throat Plate Screw (rear) Nut                                                                   |              |
| 46       | 108106                   | Vibrating Presser Foot Lifting Shaft (eccentric) Oiling Felt                                    |              |
| 47       | 50117                    | Vibrating Presser Foot Lifting Shaft (eccentric) Oiling Felt<br>Support Screw                   |              |

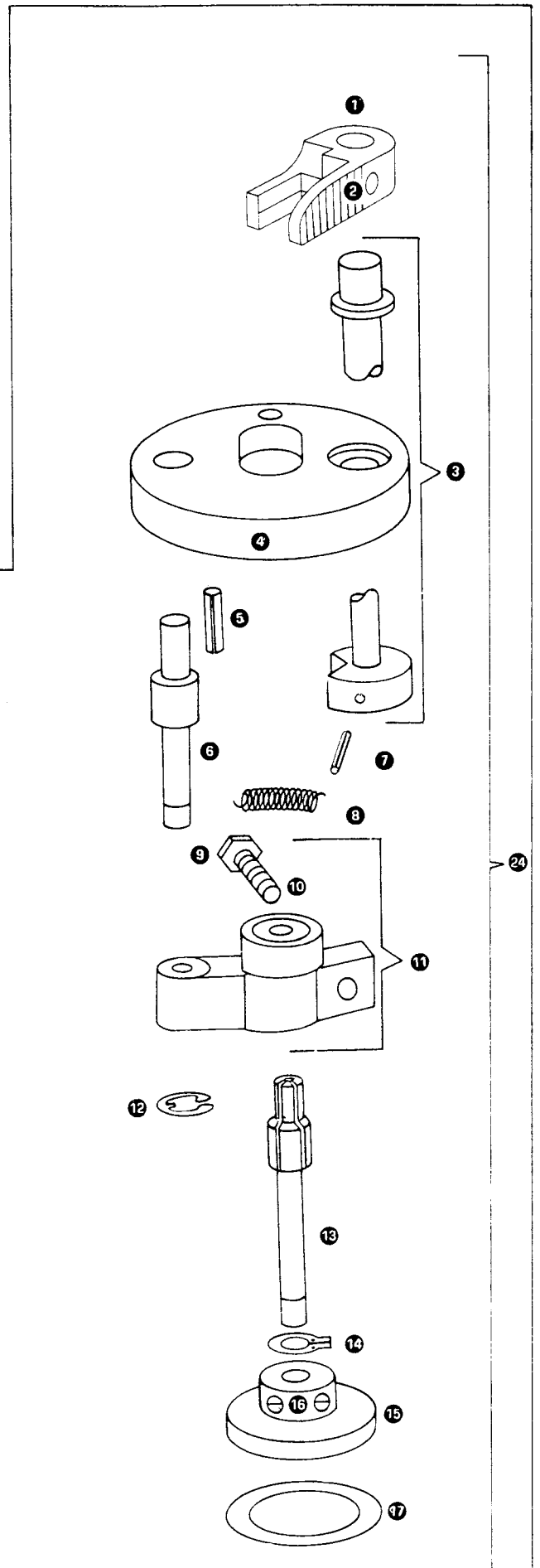
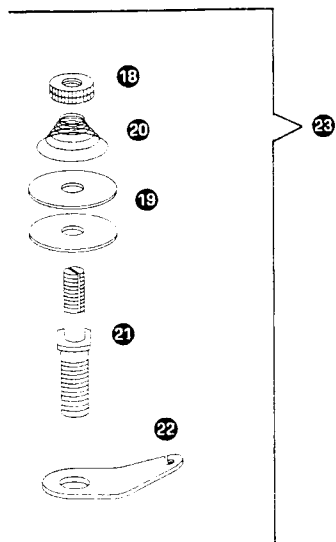


Parts List for 660A51 Machine

| Ref. No. | Part No.<br>For Ordering | Description                                                      | Amt.<br>Req. |
|----------|--------------------------|------------------------------------------------------------------|--------------|
| 1        | 87090                    | Bobbin Winder Spindle Engaging Lever with 198(809)               |              |
| 2        | 198(809)                 | Bobbin Winder Spindle Engaging Lever Set Screw                   |              |
| 3        | 107982                   | Bobbin Winder Spindle Engaging Lever Stud with Cam               |              |
| 4        | 107812(728)              | Bobbin Winder Base                                               |              |
| 5        | 101646                   | Bobbin Winder Spindle Positioning Bracket Tension Spring Stud    |              |
| 6        | 107804                   | Bobbin Winder Spindle Positioning Bracket Stud                   |              |
| 7        | 21069                    | Bobbin Winder Spindle Engaging Lever Stud Cam Pin (spiral)       |              |
| 8        | 107941                   | Bobbin Winder Spindle Positioning Bracket Tension Spring         |              |
| 9        | 1747                     | Bobbin Winder Spindle Positioning Bracket Adjusting Screw Nut    |              |
| 10       | 109902                   | Bobbin Winder Spindle Positioning Bracket Adjusting Screw        |              |
| 11       | 107813                   | Bobbin Winder Spindle Positioning Bracket with 1747 and 109902   |              |
| 12       | 107716                   | Bobbin Winder Spindle Positioning Bracket Stud Retaining Circlip |              |
| 13       | 107805                   | Bobbin Winder Spindle                                            |              |
| 14       | 107716                   | Bobbin Winder Spindle Circlip                                    |              |
| 15       | 21056                    | Bobbin Winder Pulley with two 50429(805)                         |              |
| 16       | 50429(805)               | Bobbin Winder Pulley Set Screw                                   | 2            |
| 17       | 21057                    | Bobbin Winder Pulley Friction Ring                               |              |
| 18       | 113074(809)              | Bobbin Winder Thread Tension Stud Thumb Nut                      |              |
| 19       | 2455                     | Bobbin Winder Thread Tension Disc                                | 2            |
| 20       | 101770                   | Bobbin Winder Thread Tension Spring                              |              |
| 21       | 90092(810)               | Bobbin Winder Thread Tension Stud                                |              |
| 22       | 81439                    | Bobbin Winder Thread Tension Guide                               |              |
| 23       | 90093                    | Bobbin Winder Thread Tension, complete                           |              |
| 24       | 107816                   | Bobbin Winder Assembly                                           |              |
| 25       | 107817                   | Bobbin Winder with Thread Tension, complete                      |              |
| 26       | 447(830)                 | Bobbin Winder Set Screw                                          |              |

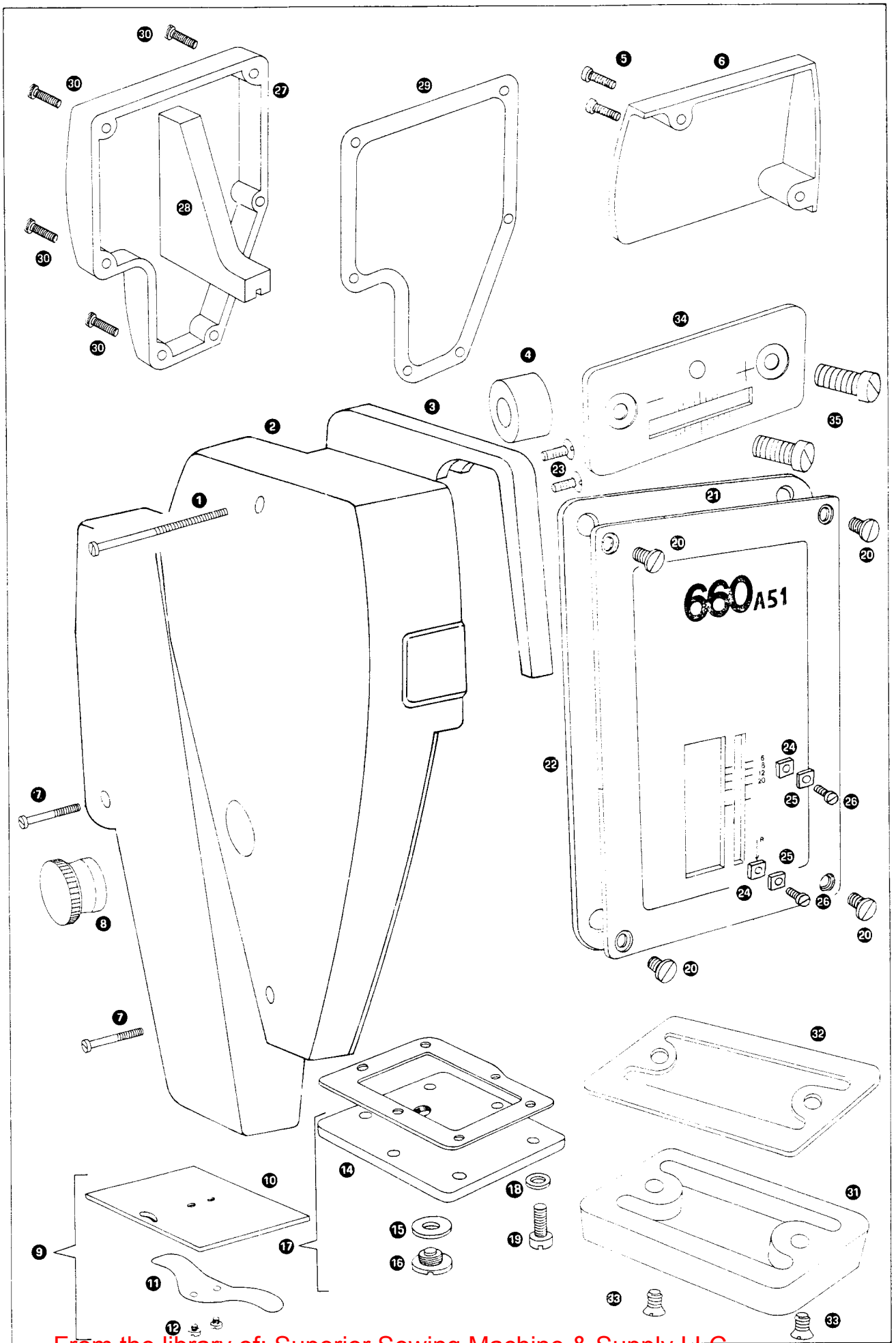


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Parts List for 660A51 Machine

| Ref. No.                                 | Part No.<br>For Ordering | Description                                                             | Amt.<br>Req. |
|------------------------------------------|--------------------------|-------------------------------------------------------------------------|--------------|
| 1                                        | 140906(809)              | Face Plate Screw (upper)                                                |              |
| 2                                        | 107755                   | Face Plate with 106353 and two 208(805)                                 |              |
| 3                                        | 106353                   | Thread Take-up Lever Guard                                              |              |
| 4                                        | 106354                   | Thread Take-up Lever Guard Distance Piece (nylon)                       |              |
| 5                                        | 127(809)                 | Arm Cover Screw                                                         | 2            |
| 6                                        | 107754                   | Arm Cover                                                               |              |
| 7                                        | 131(809)                 | Face Plate Screw (lower)                                                | 2            |
| 8                                        | 149111                   | Face Plate Plug                                                         |              |
| 9                                        | 106527-001               | Bed Slide 106526-001 with 189625 and two 1208(809)                      |              |
| 10                                       | 106526-001               | Bed Slide                                                               |              |
| 11                                       | 189625                   | Bed Slide Spring                                                        |              |
| 12                                       | 1208(809)                | Bed Slide Spring Screw                                                  | 2            |
| 13                                       | 276491                   | Rotating Hook Oil Reservoir Cover Gasket                                |              |
| 14                                       | 276246                   | Rotating Hook Oil Reservoir Cover                                       |              |
| 15                                       | 276245                   | Rotating Hook Oil Reservoir Drain Plug Gasket                           |              |
| 16                                       | 276244                   | Rotating Hook Oil Reservoir Drain Plug                                  |              |
| 17                                       | 276247                   | Rotating Hook Oil Reservoir Cover complete, Nos. 276244 to 276246       |              |
| 18                                       | 272154                   | Rotating Hook Oil Reservoir Cover Washer                                | 6            |
| 19                                       | 200041(819)              | Rotating Hook Oil Reservoir Cover Screw                                 | 6            |
| 20                                       | 1094(809)                | Stitch Indicator Cover Plate Screw                                      | 4            |
| 21                                       | 107756                   | Stitch Indicator Cover Plate                                            |              |
| 22                                       | 107506                   | Stitch Indicator Cover Plate Gasket                                     |              |
| 23                                       | 208(805)                 | Thread Take-up Lever Guard Securing Screw                               | 2            |
| 24                                       | 16373                    | Stitch Indicator Stop Plate (adjustable, back)                          | 2            |
| 25                                       | 16374                    | Stitch Indicator Stop Plate (adjustable, front)                         | 2            |
| 26                                       | 1492(809)                | Stitch Indicator Stop Plate (adjustable, back and front) Clamping Screw | 2            |
| 27                                       | 107937                   | Upper Feed Reversing Mechanism Cover with 107795                        |              |
| 28                                       | 107795                   | Upper Feed Reversing Mechanism Oil Pad                                  |              |
| 29                                       | 107787                   | Upper Feed Reversing Mechanism Cover Gasket                             |              |
| 30                                       | 350754                   | Upper Feed Reversing Mechanism Cover Screw                              | 6            |
| 31                                       | 107786                   | Upper Feed Reversing Mechanism Cover (bottom)                           |              |
| 32                                       | 107788                   | Upper Feed Reversing Mechanism Cover (bottom) Gasket                    |              |
| 33                                       | 350754                   | Upper Feed Reversing Mechanism Cover (bottom) Screw                     | 2            |
| 34                                       | 107735                   | Upper Feed Indicator Plate                                              |              |
| 35                                       | 691(806)                 | Upper Feed Indicator Plate Screw                                        | 2            |
| The following parts are not illustrated: |                          |                                                                         |              |
| —                                        | 106334                   | Needle Bar Crank Roll Pin                                               |              |
| —                                        | 107711                   | Arm                                                                     |              |
| —                                        | 107753                   | Arm and Bed                                                             |              |
| —                                        | 204235                   | Arm Position Pin                                                        | 2            |
| —                                        | 200004(805)              | Arm Screw                                                               | 4            |
| —                                        | 202005                   | Arm Screw Washer                                                        | 4            |
| —                                        | 108056                   | Bed                                                                     |              |



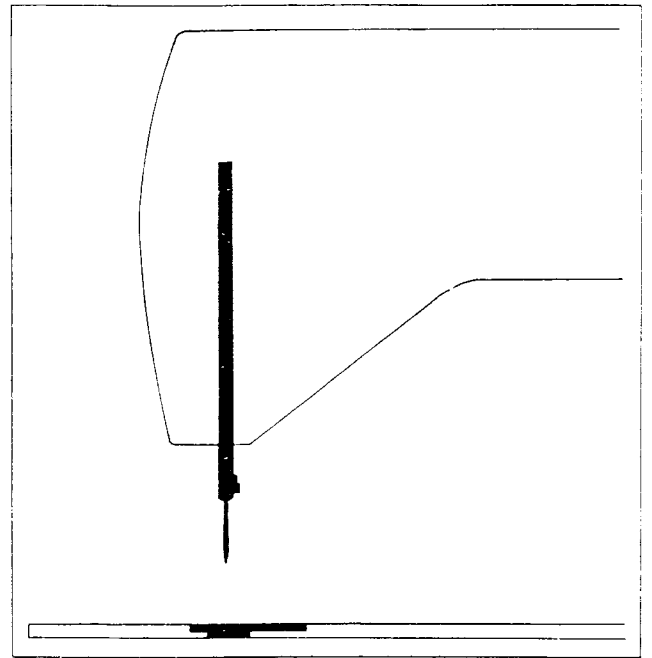
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Parts List for 660A52 Machine

The following parts differ from those used on 660A51 Machine.

All other parts are the same.

| Ref. No. | Part No.<br>For Ordering | Description                                   | Amt.<br>Req. |
|----------|--------------------------|-----------------------------------------------|--------------|
| 1        | 107995                   | Needle Bar with 141087(869)                   |              |
| 2        | 107996                   | Needle Bar 107995 with 140036(830) and 107819 |              |
| 3        | Cat. 1955                | Needle, size 19                               |              |
| 4        | 107725                   | Throat Plate                                  |              |
| 5        | 107724                   | Feed Dog                                      |              |
| 6        | 107765                   | Stitch Indicator Cover Plate                  |              |





Accessories for Class 660A51 and 660A52 Machines

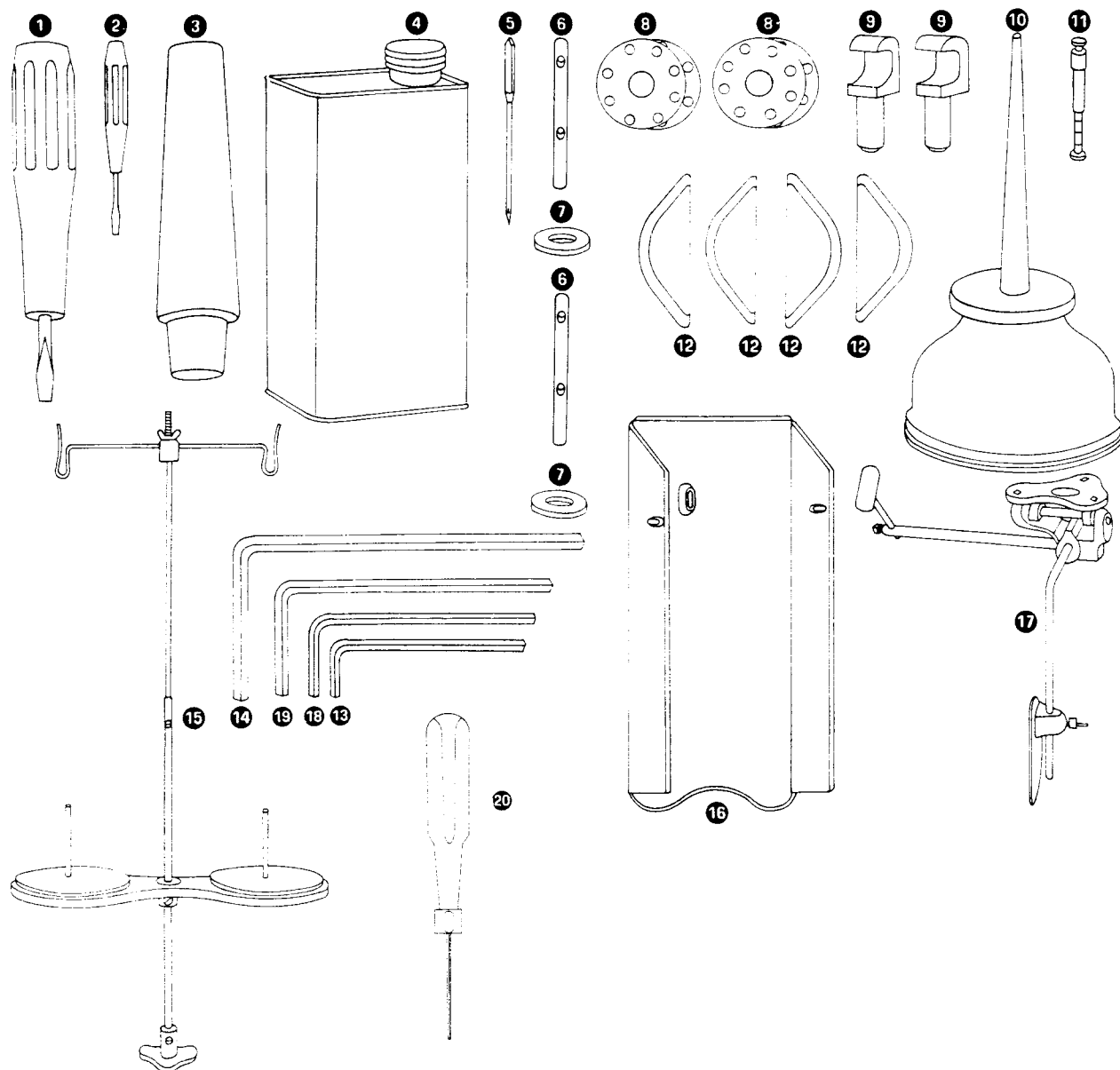
Supplied with machine

| Ref. No. | Part No.<br>For Ordering | Description                               | Amt.<br>Req. |
|----------|--------------------------|-------------------------------------------|--------------|
| 1        | 161294                   | Screwdriver                               |              |
| 2        | 161295                   | Screwdriver                               |              |
| 3        | 41400                    | Machine Rest Pin (wood)                   |              |
| 4        | 86698-001                | Tin of Oil ( $\frac{1}{2}$ Pint) Type 'A' |              |
| 5        | Cat. 1361                | Needles, size 14 for 660A51 Machine       | 6            |
|          | Cat. 1955                | Needles, size 19, for 660A52 Machine      | 6            |
| 6        | 52239                    | Arm Spool Pin and Thread Eyelet           | 2            |
| 7        | 8879                     | Arm Spool Pin and Thread Eyelet Washer    | 2            |
| 8        | 270010                   | Rotating Hook Bobbin                      | 5            |
| 9        | 12361-001                | Machine Hinge Connection                  | 2            |
| 10       | 120342                   | Oiler                                     |              |
| 11       | 270155                   | Rotating Hook Oil Reservoir Oil Gauge     |              |
| 12       | 151559                   | Machine Rest Pad                          | 4            |
| 13       | 293-982                  | Key for 1/16 inch, 1.58mm Socket Screws   |              |
| 14       | 144465                   | Key for 1/8 inch, 3.17mm Socket Screws    |              |
| 15       | 225258                   | Thread Unwinder                           |              |
| 16       | 228479                   | Drip Pan                                  |              |
| 17       | 228710                   | Knee Lifter                               |              |
| 18       | 820193(003)              | Wrench (Allen key 5/64 inch)              |              |
| 19       | 820193(004)              | Wrench (Allen key 3/32 inch)              |              |
| 20       | 108115                   | Wrench (Hexagonal driver)                 |              |

Available at extra charge

|    |        |                                                            |  |
|----|--------|------------------------------------------------------------|--|
| 21 | 27739  | Thread Unwinder Thread Cone (wood)                         |  |
| 22 | 108122 | Belt Guard                                                 |  |
| —  | 228915 | Strip Reel (6 inches, 152.4mm diameter) (not illustrated)  |  |
| 23 | 107900 | Drip Pan and Drain Jar (available in place of 228479)      |  |
| 24 | 107173 | Setting Tool for setting Thread Take-up Lever Link Bushing |  |

Supplied with machine



Available at extra charge

