

PARTS LIST

DWK

DWK-1802D
DWK-1803D
DWK-1804D
DWK-1802DE
DWK-1803DE
DWK-1802F
DWK-1803F
DWK-1802FK
DWK-1802EM
DWK-1803EM
DWK-1802EMK
DWK-1803EMK
DWK-1842
DMM-2202DA
DMM-2203DA
DMM-2202FA
DMM-2203FA

Foreword

Thank you for purchasing a Kansai Special DWK Series sewing machine.
Use this Parts List for easy identification and ordering of DWK series repair and replacement parts.

This Parts List is based on DWK-1802, 1803 F-type and D-type as standard machines.

You will find listings for reference numbers, parts numbers, parts names and quantities required.

For parts common to all the DWK series machines, see pages 1—12.

For parts used only subclass models (those marked with★), refer to pages 18—26.

Parts described by dotted line or marked with★★ are the same as those used in standard models (F-type or D-type)

Mechanism of gauge parts for all the DWK series are described in pages 13—16. See page 17 for gauge parts list.

By referring to the index on pages 33—37, you can easily find the drawings and names for any parts number.

When ordering, please specify the following.

| (Example) | Model | Needle Gauge | Ref. No. | Parts No. | Q'ty |
|-----------|------------|--------------|-----------|-----------|------|
| | (DWK-1842) | (1/4") | (P21, 31) | (45-921) | (1) |

In the drawings, the parts shown in boxes indicate a set of parts. When ordering, please specify the assembly number.

| (Example) | Model | Needle gauge | Ref. No. | Assembly No. | Unit |
|-----------|------------|--------------|--------------|--------------|---------|
| | (DWK-1842) | (1/4") | (P21, 815-A) | (40-180) | (1 set) |

This Parts List is valid for machines manufactured after November 1, 1977. Due to frequent design improvements, components and parts numbers may be changed in the future.

パーツリスト御利用に際して

DWKシリーズ製品お買い上げいただきありがとうございました。

本パーツリストは、DWKシリーズミシンの修理用部品が容易に御利用いただけるよう編集されております。

DWK-1802・1803、Fタイプ及びDタイプを基本機種として、機構別に収録され、部品図解頁の下側または右側の頁に参照番号、部品番号、名称、使用数量の順に記載されております。1頁から12頁を参照して下さい。参照番号に★印の付いた部品は基本機種以外のサブクラス機種になると異なる部品です。18頁～26頁を参照して下さい。サブクラス機種で、部品図解が点線で描かれている部品、または参照番号に★★印の付いている部品は基本機種（FタイプまたはDタイプ）と共通部品です。ゲージ関係部品に関しては13頁～16頁にDWK全シリーズまとめて記載しております。17頁のゲージ表と合わせて御利用下さい。

また、33頁～37頁には部品索引表を記載しておりますので部品番号のみで、その図解、名称などが容易に引き出せます。

本パーツリストに基き部品御注文の際は、部品番号を必ず明示して下さい。

| (例) | 機種名 | 針巾 | 参照番号 | 部品番号 | 数量 |
|-----|------------|--------|-----------|----------|------|
| | (DWK-1842) | (1/4") | (P21, 31) | (45-921) | (1個) |

部品図解中で枠内の部品に関しては、アッセンブリー番号を御使用下さい

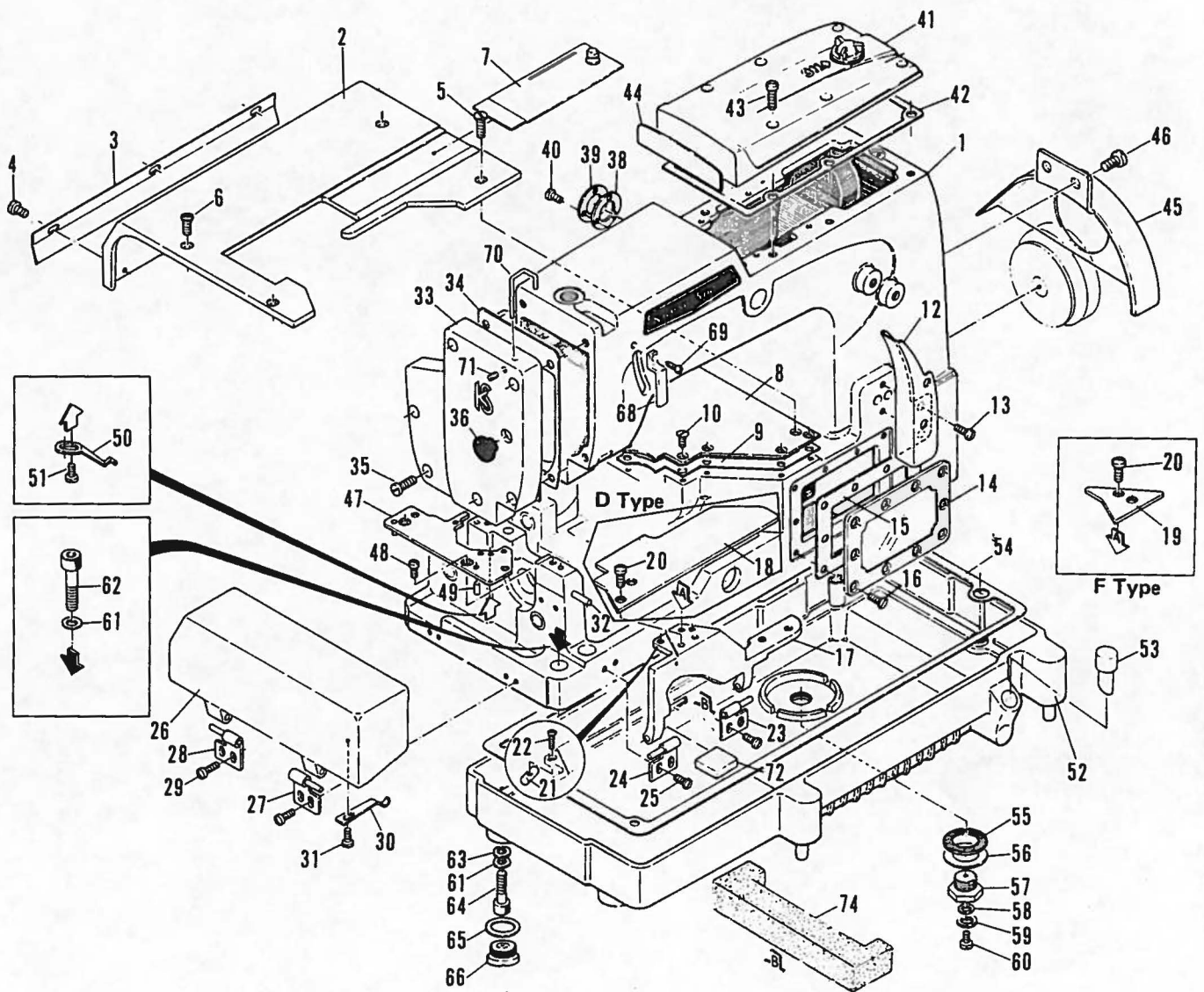
| (例) | 機種名 | 針巾 | 参照番号 | アッセンブリー番号 | 数量 |
|-----|------------|--------|--------------|-----------|--------|
| | (DWK-1842) | (1/4") | (P21, 815-A) | (40-180) | (1セット) |

本パーツリストは、1977年12月現在製造中のミシンを基に作成されております。部品番号、部品形状などは設計変更により変わる場合があります。

Contents

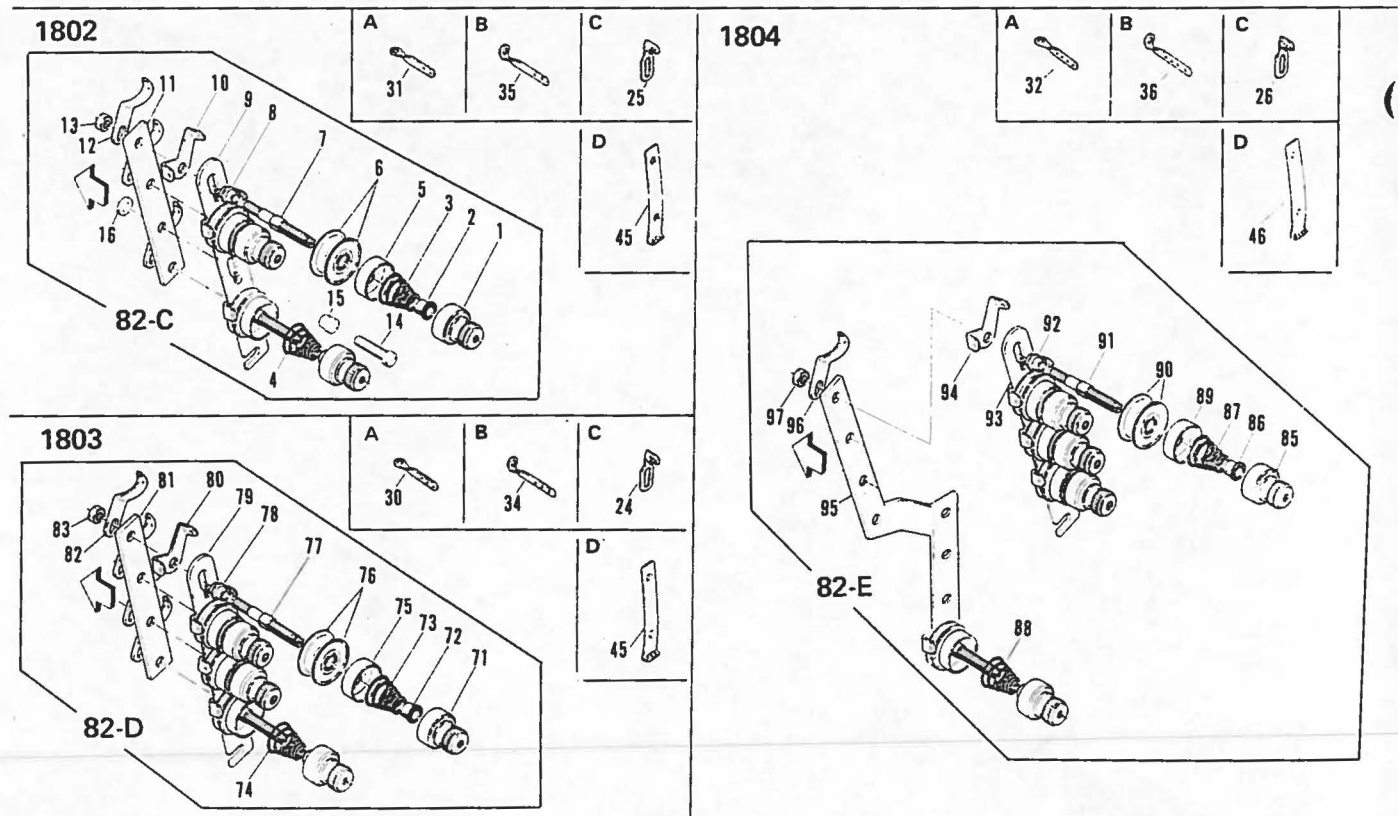
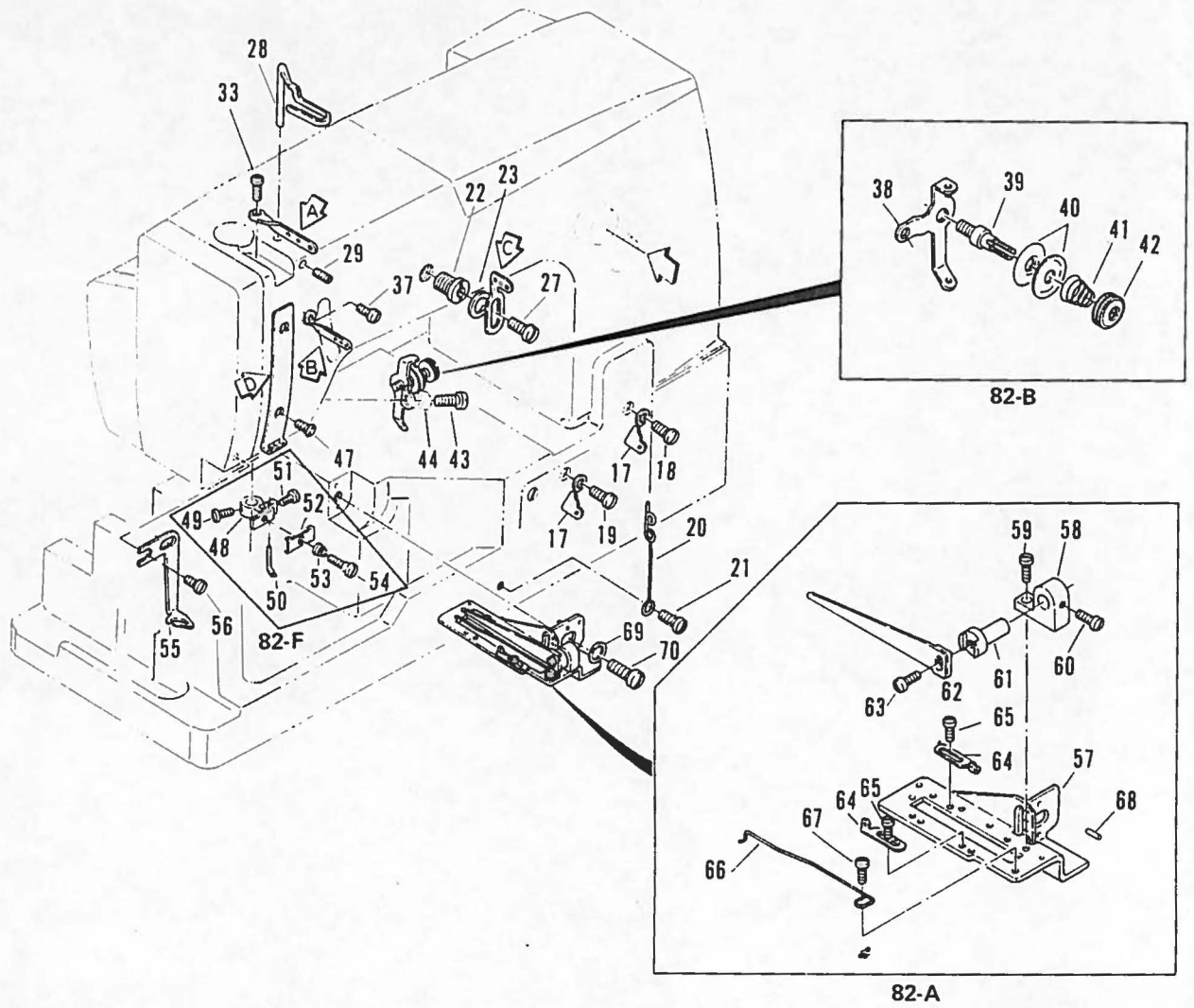
| | |
|--|----|
| 1. Housing components (カバー関係) | 1 |
| 2. Thread eyelet components (糸道関係) | 3 |
| 3. Bushings (ブッシュ関係) | 5 |
| 4. Oil lubrication apparatus (給油関係) | 6 |
| 5. Needle lever crank (弓・クランク機構) | 7 |
| 6. Feed rocker (送り機構) | 9 |
| 7. Looper (ルーパー機構) | 10 |
| 8. Foot lifter components (押え上げ機構) | 11 |
| 9. Upper shaft components (上飾り機構) | 12 |
| 10. Gauge parts (1) (ゲージ関係(1)) | 13 |
| 11. Gauge parts (2) (ゲージ関係(2)) | 15 |
| 12. Gauge lists (ゲージ表) | 17 |
| Subclass models | |
| 13. 1802FK | 18 |
| 14. EM•EMK attachment (EM・EMK関係) | 19 |
| 15. 1842 (Thread eyelet components) (糸道関係) | 21 |
| 16. 1842 (Needle lever crank) (弓・クランク機構) | 22 |
| 17. 1842 (Feed rocker) (送り機構) | 23 |
| 18. 1842 (Looper) (ルーパー機構) | 24 |
| 19. DMM (Thread eyelet components) (糸道関係) | 25 |
| 20. DMM (Upper shaft components) (上飾り機構) | 26 |
| 21. Rear cutter (MC-10) (後カッター装置) | 27 |
| 22. Attachments (アタッチメント) | 29 |
| 23. Thread stands (糸立て) | 30 |
| 24. Tape stands•accessories (テープ立て・アクセサリー) | 31 |
| 25. Table stand installation diagram (テーブルスタンド据付図) | 32 |
| 26. Index (索引) | 33 |

1. Housing components (カバー関係)



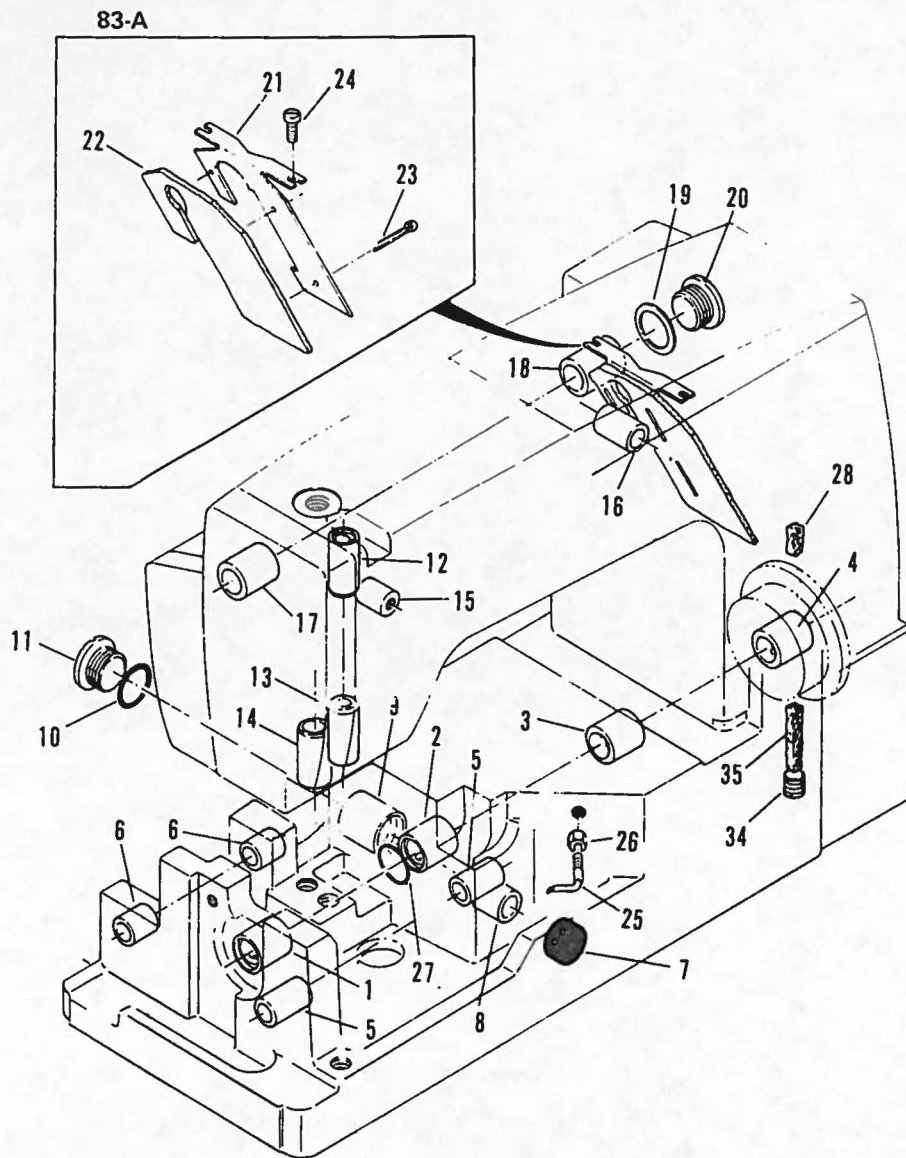
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|----------------------------|------|----------|----------|----------------------------------|------|
| 1 | 22-851 | Arm bed (DWK) | 1 | 38 | 23-263 | Oil seal plate gasket | 1 |
| * | 22-854 | Arm bed (EMK) | 1 | 39 | 39-108 | Oil seal plate | 1 |
| * | 22-852 | Arm bed (FK) | 1 | 40 | 84-362 | Screw | 3 |
| * | 22-841 | Arm bed (DMM) | 1 | 41 | 21-208 | Crank chamber oil cover | 1 |
| * 2 | 21-501 | Upper cloth plate | 1 | 42 | 23-206 | Crank chamber oil gasket | 1 |
| 3 | 21-441 | Supporting cover | 1 | 43 | 84-566 | Screw | 6 |
| 4 | 84-574 | Screw | 3 | 44 | 23-207 | Oil cover gasket | 1 |
| 5 | 84-861 | Screw | 2 | 45 | 21-402 | Pulley cover | 1 |
| 6 | 84-862 | Screw | 2 | 46 | 84-571 | Screw | 2 |
| 7 | 21-521 | Slide plate | 1 | * 47 | 14-031 | Needle plate support | 1 |
| 8 | 21-513 | Oil reservoir top cover | 1 | 48 | 84-761 | Screw | 2 |
| 9 | 23-223 | Oil reservoir top gasket | 1 | 49 | 71-251 | Knock pin | 2 |
| 10 | 84-661 | Screw | 8 | 50 | 79-501 | Ruler holder spring | 1 |
| 11 | | | | 51 | 84-361 | Screw | 2 |
| 12 | 21-131 | Tension post cover | 1 | 52 | 31-203 | Oil reservoir | 1 |
| 13 | 84-361 | Screw | 2 | 53 | 39-213 | Oil gauge | 1 |
| 14 | 21-122 | Oil reservoir front cover | 1 | 54 | 23-402 | Oil reservoir gasket | 1 |
| 15 | 23-232 | Oil reservoir front gasket | 1 | 55 | 23-299 | Drain gasket | 1 |
| 16 | 84-664 | Screw | 10 | 56 | 75-469 | Washer | 1 |
| 17 | 21-101 | Ruler holder | 1 | 57 | 87-810 | Screw | 1 |
| 18 | 21-111 | Ruler plate | 1 | 58 | 23-301 | Seal gasket | 1 |
| 19 | 21-113 | Ruler plate for F type | 1 | 59 | 75-453 | Washer | 1 |
| 20 | 84-572 | Screw | 2 | 60 | 84-761 | Screw | 1 |
| 21 | 71-401 | Spring pin | 1 | 61 | 75-446 | Washer | 2 |
| 22 | 84-462 | Screw | 1 | 62 | 85-628 | Screw | 2 |
| 23 | 25-101 | Hinge right | 1 | 63 | 23-260 | Seal gasket | 2 |
| 24 | 25-102 | Hinge left | 1 | 64 | 85-627 | Screw | 2 |
| 25 | 84-571 | Screw | 4 | 65 | 23-302 | Gasket | 2 |
| 26 | 21-301 | Side cloth plate | 1 | 66 | 87-756 | Screw | 2 |
| 27 | 25-101 | Hinge right | 1 | 67 | | | |
| 28 | 25-102 | Hinge left | 1 | 68 | 21-711 | Needle lever eyelet safety plate | 1 |
| 29 | 84-571 | Screw | 4 | 69 | 84-363 | Screw | 1 |
| 30 | 79-502 | Side cloth plate spring | 1 | 70 | 21-701 | Needle bar eyelet safety bar | 1 |
| 31 | 84-571 | Screw | 1 | * 71 | 84-521 | Screw | 1 |
| 32 | 71-301 | Spring pin | 1 | 72 | 39-163 | Filter | 2 |
| * 33 | 21-317 | Head cover | 1 | 73 | | | |
| 34 | 23-217 | Head cover gasket | 1 | 74 | 39-161 | Filter | 1 |
| 35 | 84-566 | Screw | 5 | 75 | | | |
| 36 | 23-161 | Oil seal cover | 1 | 76 | | | |
| 37 | | | | 77 | | | |

2. Thread eyelet components (糸道関係)



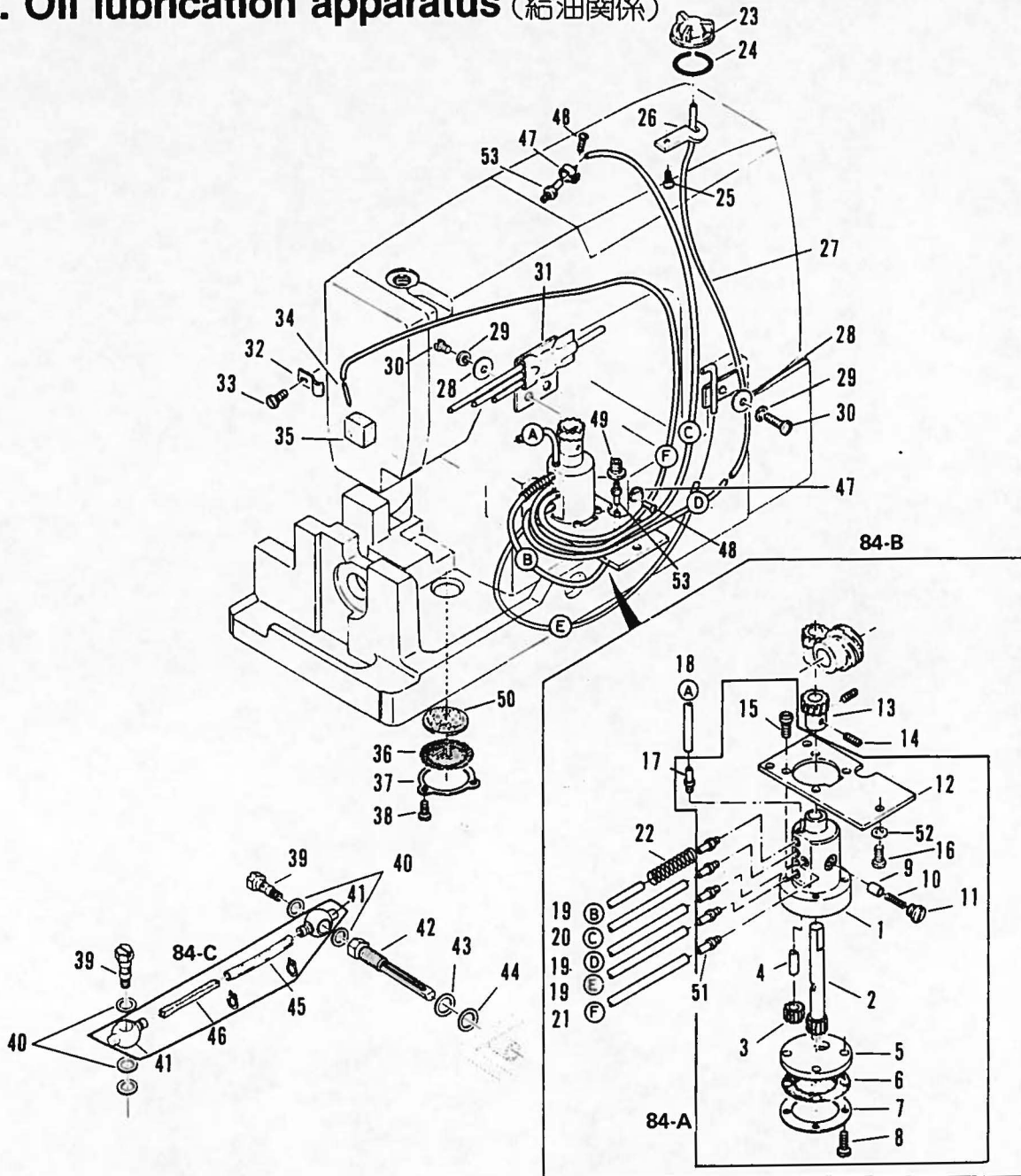
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|--|------|----------|----------|------------------------------|------|
| 1 | 41-101 | Tension regulating nut | 3 | 50 | 45-917 | L' thread eyelet | 1 |
| 2 | 41-105 | Tension disc ratchet | 3 | 51 | 85-621 | Screw | 1 |
| 3 | 41-701 | Needle thread tension spring | 2 | 52 | 45-142 | Tension nipper | 1 |
| 4 | 41-702 | Looper thread tension spring | 1 | 53 | 41-721 | Tension nipper spring | 1 |
| 5 | 41-107 | Tension disc cover | 3 | 54 | 84-171 | Screw | 1 |
| 6 | 41-111 | Tension disc | 6 | 55 | 45-922 | Zigzag thread eyelet | 1 |
| 7 | 41-172 | Tension post | 3 | 56 | 84-361 | Screw | 2 |
| 8 | 41-131 | Tension post collar A | 3 | 57 | 43-331 | Cast-off support bracket | 1 |
| 9 | 41-113 | Tension post support | 1 | 58 | 43-339 | Retainer support bracket | 1 |
| 10 | 41-115 | Tension post thread eyelet | 3 | 59 | 84-162 | Screw | 1 |
| 11 | 41-121 | Tension post holder | 1 | 60 | 84-161 | Screw | 1 |
| 12 | 41-117 | Lead in thread eyelet | 3 | 61 | 43-112 | Pin for thread retainer | 1 |
| 13 | 86-411 | Nut | 2 | 62 | 43-333 | Looper thread retainer | 1 |
| 14 | 84-764 | Screw | 1 | 63 | 84-374 | Screw | 1 |
| 15 | 41-132 | Tension post collar B | 1 | 64 | 43-337 | Looper thread guide eyelet | 2 |
| 16 | 75-381 | Washer | 1 | 65 | 85-621 | Screw | 2 |
| * 17 | 41-416 | Looper thread eyelet | 2 | 66 | 43-335 | Looper thread cast-off pin | 1 |
| 18 | 84-374 | Screw | 1 | 67 | 84-163 | Screw | 1 |
| 19 | 84-361 | Screw | 1 | 68 | 71-191 | Pin | 2 |
| 20 | 47-202 | Looper thread guide eyelet B | 1 | 69 | 75-456 | Washer | 1 |
| 21 | 84-361 | Screw | 1 | 70 | 84-571 | Screw | 1 |
| 22 | 85-531 | Screw | 1 | 71 | 41-101 | Tension regulating nut | 4 |
| 23 | 75-456 | Washer | 1 | 72 | 41-105 | Tension disc ratchet | 4 |
| 24 | 45-102 | Needle thread eyelet 3 | 1 | 73 | 41-701 | Needle thread tension spring | 3 |
| 25 | 45-101 | Needle thread eyelet 2 | 1 | 74 | 41-702 | Looper thread tension spring | 1 |
| 26 | 45-103 | Needle thread eyelet 4 | 1 | 75 | 41-107 | Tension disc cover | 4 |
| 27 | 84-571 | Screw | 1 | 76 | 41-111 | Tension disc | 8 |
| 28 | 45-225 | Needle thread take-up wire E | 1 | 77 | 41-172 | Tension post | 4 |
| 29 | 84-521 | Screw | 1 | 78 | 41-131 | Tension post collar A | 4 |
| 30 | 45-132 | Needle bar thread eyelet 3 | 1 | 79 | 41-113 | Tension post support | 1 |
| 31 | 45-131 | Needle bar thread eyelet 2 | 1 | 80 | 41-115 | Tension post thread eyelet | 1 |
| 32 | 45-133 | Needle bar thread eyelet 4 | 1 | 81 | 41-121 | Tension post holder | 1 |
| 33 | 84-361 | Screw | 1 | 82 | 41-117 | Lead in thread eyelet | 4 |
| 34 | 45-122 | Needle lever thread eyelet 3 | 1 | 83 | 86-411 | Nut | 2 |
| 35 | 45-121 | Needle lever thread eyelet 2 | 1 | 84 | | | |
| 36 | 45-123 | Needle lever thread eyelet 4 | 1 | 85 | 41-101 | Tension regulating nut | 5 |
| 37 | 84-361 | Screw | 1 | 86 | 41-105 | Tension disc ratchet | 5 |
| 38 | 45-921 | Needle thread tension regulating support | 1 | 87 | 41-701 | Needle thread tension spring | 4 |
| 39 | 41-151 | Needle thread tension regulating rod | 1 | 88 | 41-702 | Looper thread tension spring | 1 |
| 40 | 41-152 | Needle thread tension regulating disc | 2 | 89 | 41-107 | Tension disc cover | 5 |
| 41 | 41-153 | Needle thread tension regulating spring | 1 | 90 | 41-111 | Tension disc | 10 |
| 42 | 41-154 | Needle thread tension regulating nut | 1 | 91 | 41-172 | Tension post | 5 |
| 43 | 84-571 | Screw | 1 | 92 | 41-131 | Tension post collar A | 5 |
| 44 | 75-453 | Washer | 1 | 93 | 41-113 | Tension post support | 1 |
| 45 | 45-151 | Needle thread guide 3 | 1 | 94 | 41-115 | Tension post thread eyelet | 5 |
| 46 | 45-163 | Needle thread guide 4 | 1 | 95 | 41-123 | Tension post holder (large) | 1 |
| 47 | 84-464 | Screw | 2 | 96 | 41-117 | Lead in thread eyelet | 5 |
| 48 | 41-303 | Tension nipper plate | 1 | 97 | 86-411 | Nut | 3 |
| 49 | 84-364 | Screw | 1 | 98 | | | |
| * 82-A | 40-381 | Cast-off support plate ass'y | | | | | |
| 82-B | 40-180 | Covering thread tension base ass'y | | | | | |
| * 82-C | 40-121 | Thread tension ass'y, 1802 Type | | | | | |
| * 82-D | 40-131 | Thread tension ass'y, 1803 Type | | | | | |
| * 82-E | 40-141 | Thread tension ass'y, 1804 Type | | | | | |
| 82-F | 40-571 | Tension nipper ass'y | | | | | |

3. Bushings (ブッシュ関係)



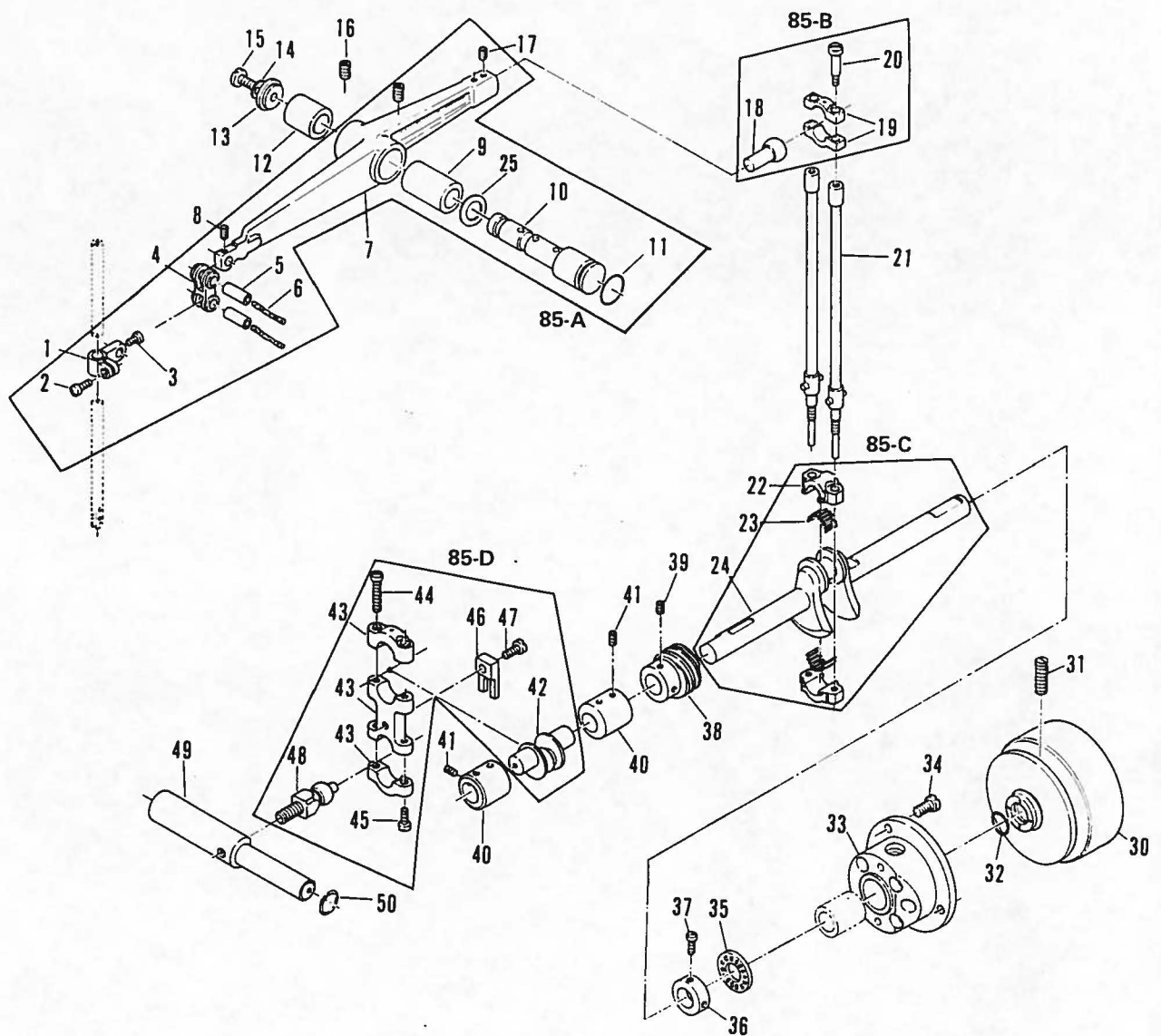
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|--|------|----------|----------|--|------|
| 1 | 81-711 | Main shaft bushing A | 1 | 15 | 81-201 | Bushing for spring set screw | 1 |
| 2 | 81-702 | Main shaft bushing B | 1 | 16 | 81-255 | Presser foot lifter lever bushing | 1 |
| 3 | 81-713 | Main shaft bushing C | 1 | 17 | 81-115 | Looper drive lever shaft bushing B | 1 |
| 4 | 81-110 | Flange bushing | 1 | 18 | 81-114 | Puller driving shaft bushing | 1 |
| 5 | 81-736 | Looper rocker shaft bushing A | 2 | 19 | 23-298 | Gasket | 1 |
| 6 | 81-751 | Feed rocker shaft bushing A | 2 | 20 | 87-812 | Screw | 1 |
| | 23-166 | Oil plug A | 1 | 21 | 39-122 | Fence B | 1 |
| 8 | 81-136 | Looper drive lever shaft bushing B | 1 | 22 | 23-372 | Fence felt B | 1 |
| 9 | 81-137 | Looper drive lever shaft bushing C | 1 | 23 | 93-621 | Pin | 3 |
| 10 | 23-195 | O-ring | 1 | 24 | 84-164 | Screw | 2 |
| 11 | 87-811 | Screw | 1 | 25 | 35-111 | Feed rocker eccentric link tubing | 1 |
| 12 | 81-183 | Needle bar bushing C (upper) | 1 | 26 | 86-501 | Nut | 1 |
| 13 | 81-184 | Needle bar bushing C (lower) | 1 | 27 | 23-197 | O-ring | 1 |
| 14 | 81-154 | Presser bar bushing | 1 | 28 | 23-383 | Felt | 1 |
| 83-A | 30-941 | Fence ass'y | | | | | |

4. Oil lubrication apparatus (給油関係)



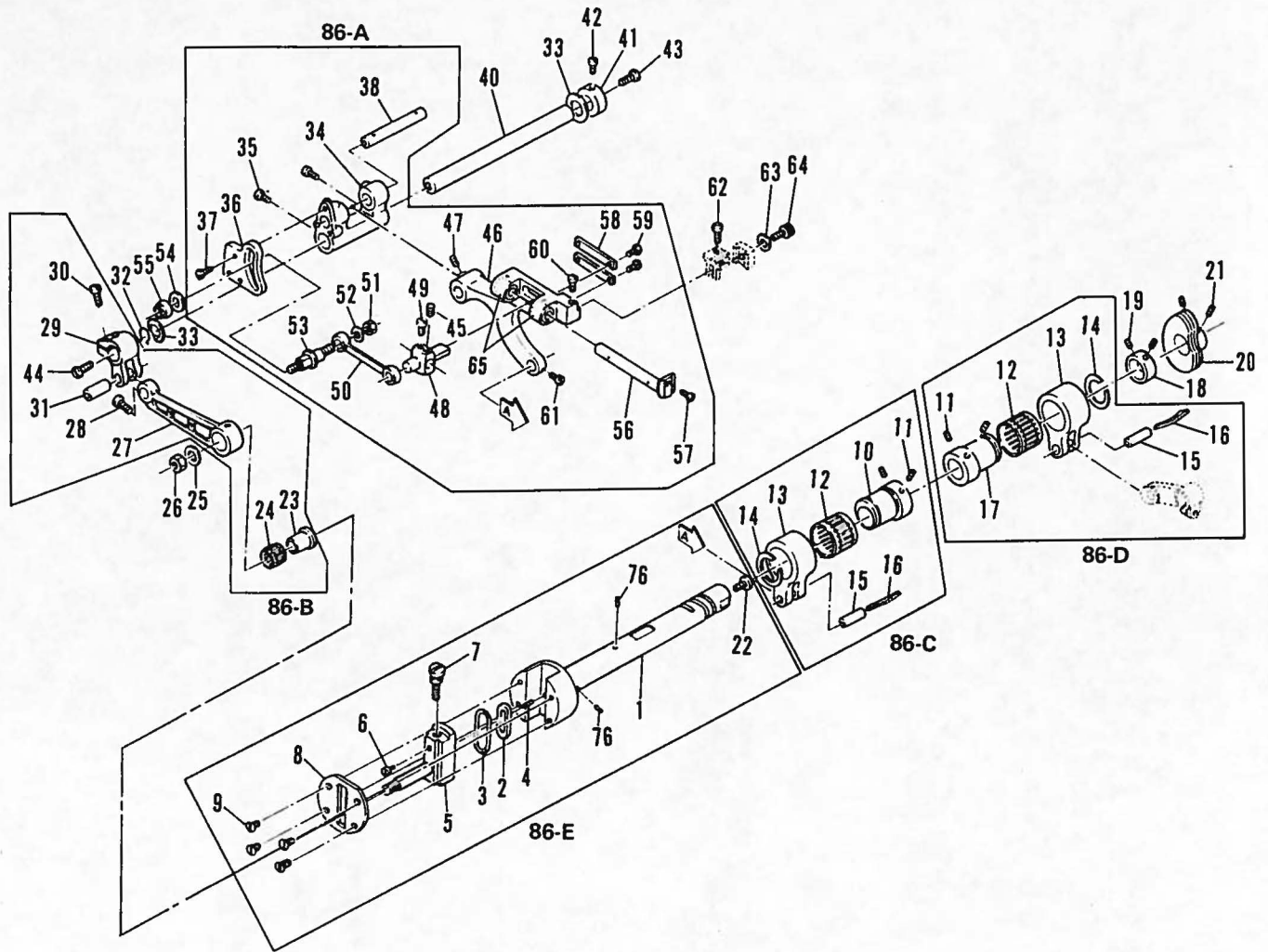
| | | | | | | | |
|------|--------|----------------------------|---|----|--------|---------------------|---|
| 3 | 31-407 | Gear C (support) | 1 | 30 | 84-363 | Screw | 3 |
| 4 | 71-482 | Pin | 1 | 31 | 35-121 | Pipe | 1 |
| 5 | 31-403 | Pump body cover | 1 | 32 | 39-133 | Support | 1 |
| 6 | 31-404 | Pump body mesh | 1 | 33 | 84-361 | Screw | 1 |
| 7 | 31-405 | Mesh Frame | 1 | 34 | 35-257 | Pipe | 1 |
| 8 | 84-571 | Screw | 4 | 35 | 23-368 | Felt | 1 |
| 9 | 31-305 | Pin | 1 | 36 | 31-310 | Mesh | 1 |
| 10 | 31-306 | Spring | 1 | 37 | 39-102 | Mounting plate | 1 |
| 11 | 31-307 | Screw | 1 | 38 | 84-362 | Screw | 3 |
| 12 | 31-402 | Body fixing plate | 1 | 39 | 35-203 | Oil guide screw | 2 |
| 13 | 31-409 | Gear | 1 | 40 | 23-306 | Packing | 4 |
| 14 | 84-521 | Screw | 2 | 41 | 35-305 | Tube coupling | 2 |
| 15 | 84-566 | Screw | 4 | 42 | 35-201 | Oil flow screw | 1 |
| 16 | 84-572 | Screw | 3 | 43 | 75-470 | Washer | 1 |
| 17 | 31-314 | Vinyl tube coupling | 5 | 44 | 23-300 | Packing | 1 |
| 18 | 35-302 | Vinyl pipe (75φ) | 1 | 45 | 35-207 | Vinyl pipe | 1 |
| 19 | 35-303 | Vinyl pipe (230φ) | 3 | 46 | 23-393 | Felt | 1 |
| 20 | 35-304 | Vinyl pipe (410φ) | 1 | 47 | 31-341 | Pipe support | 2 |
| 21 | 35-322 | Vinyl pipe (600φ) | 1 | 48 | 31-341 | Screw | 2 |
| 22 | 79-236 | Spring | 1 | 49 | 85-531 | Fixing screw | 1 |
| 23 | 39-233 | Oil pot lid | 1 | 50 | 39-162 | Mesh filter | 1 |
| 24 | 39-233 | O-ring | 1 | 51 | 31-364 | Vinyl tube coupling | 1 |
| 25 | 84-161 | Screw | 1 | 52 | 75-467 | Washer | 3 |
| 26 | 39-137 | Pipe support | 1 | 53 | 31-314 | Vinyl tube coupling | 2 |
| 27 | 35-246 | Piping | 1 | | | | |
| 84-A | 30-001 | Oil pump ass'y | | | | | |
| 84-B | 30-002 | Oil pump ass'y | | | | | |
| 84-C | 30-500 | Feeder holder piping ass'y | | | | | |

5. Needle lever crank (弓・クランク機構)



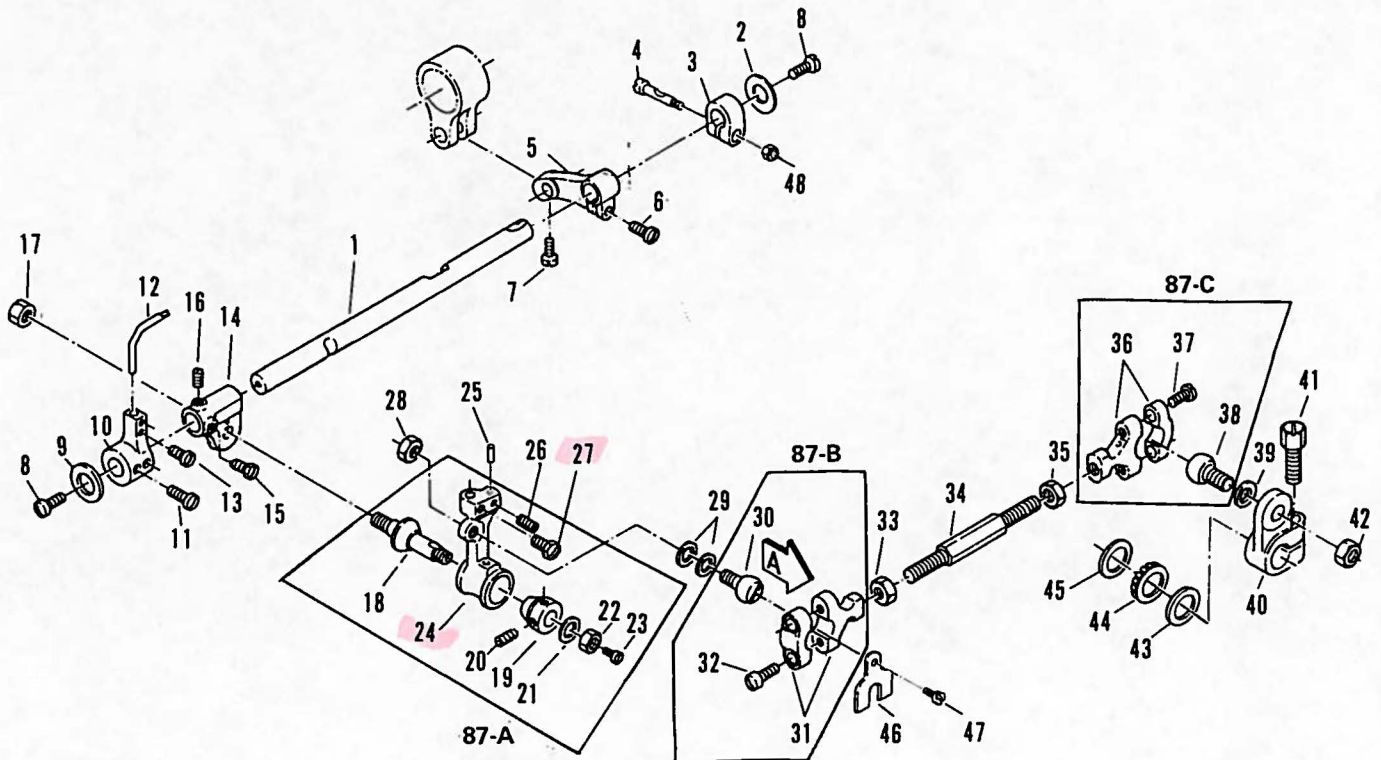
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|---------------------------------------|------|----------|----------|---|------|
| 1 | 73-113 | Needle bar connection | 1 | 26 | | | |
| 2 | 84-572 | Screw | 1 | 27 | | | |
| 3 | 84-365 | Screw | 1 | 28 | | | |
| 4 | 66-111 | Needle bar connecting link | 1 | 29 | | | |
| 5 | 71-432 | Needle bar connecting pin | 2 | 30 | 69-208 | Pulley | 1 |
| 6 | 23-341 | Felt | 2 | 31 | 85-114 | Screw | 2 |
| * 7 | 69-105 | Needle lever | 1 | 32 | 23-197 | O-ring | 1 |
| 8 | 84-366 | Screw | 1 | 33 | 69-305 | Flange E | 1 |
| * 9 | 81-113 | Needle lever bushing | 1 | 34 | 84-566 | Screw | 3 |
| *10 | 71-933 | Needle lever stud | 1 | 35 | 92-231 | Bearing | 1 |
| *11 | 23-195 | O-ring | 1 | 36 | 75-112 | Crank shaft collar | 1 |
| *12 | 81-412 | Needle lever stud bushing | 1 | 37 | 84-761 | Screw | 2 |
| *13 | 39-107 | Oil seal plate | 1 | 38 | 31-410 | Worm wheel | 1 |
| *14 | 23-260 | Gasket | 1 | 39 | 84-718 | Screw | 2 |
| *15 | 85-182 | Screw | 1 | 40 | 75-101 | Joint collar | 2 |
| 16 | 85-114 | Screw | 2 | 41 | 85-113 | Screw | 12 |
| 17 | 85-212 | Screw | 2 | 42 | 71-870 | Crank shaft C small | 1 |
| 18 | 61-722 | Needle lever connecting rod | 1 | 43 | 63-512 | Looper driving lever ball joint B | 1 |
| 19 | 63-721 | Ball joint | 1 | 44 | 84-568 | Screw | 2 |
| 20 | 84-586 | Screw | 2 | 45 | 84-567 | Screw | 2 |
| 21 | 65-311 | Connecting bar | 2 | 46 | 69-121 | Eccentric guide fork | 1 |
| 22 | 63-331 | Ball joint | 1 | 47 | 84-591 | Screw | 1 |
| 23 | 91-011 | Needle bearing | 28 | 48 | 61-713 | Looper driving lever connecting rod | 1 |
| * 24 | 71-874 | Crank shaft 7M | 1 | 49 | 71-612 | Looper driving shaft | 1 |
| 25 | 75-332 | Washer | 1 | 50 | 75-232 | Washer | 1 |
| 85-A | 60-971 | Needle lever ass'y | | | | | |
| 85-B | 60-340 | Needle bar connection ass'y | | | | | |
| 85-C | 70-037 | Crank shaft 7M ass'y | | | | | |
| 85-D | 60-375 | Looper driving ball joint ass'y | | | | | |

6. Feed rocker (送り機構)



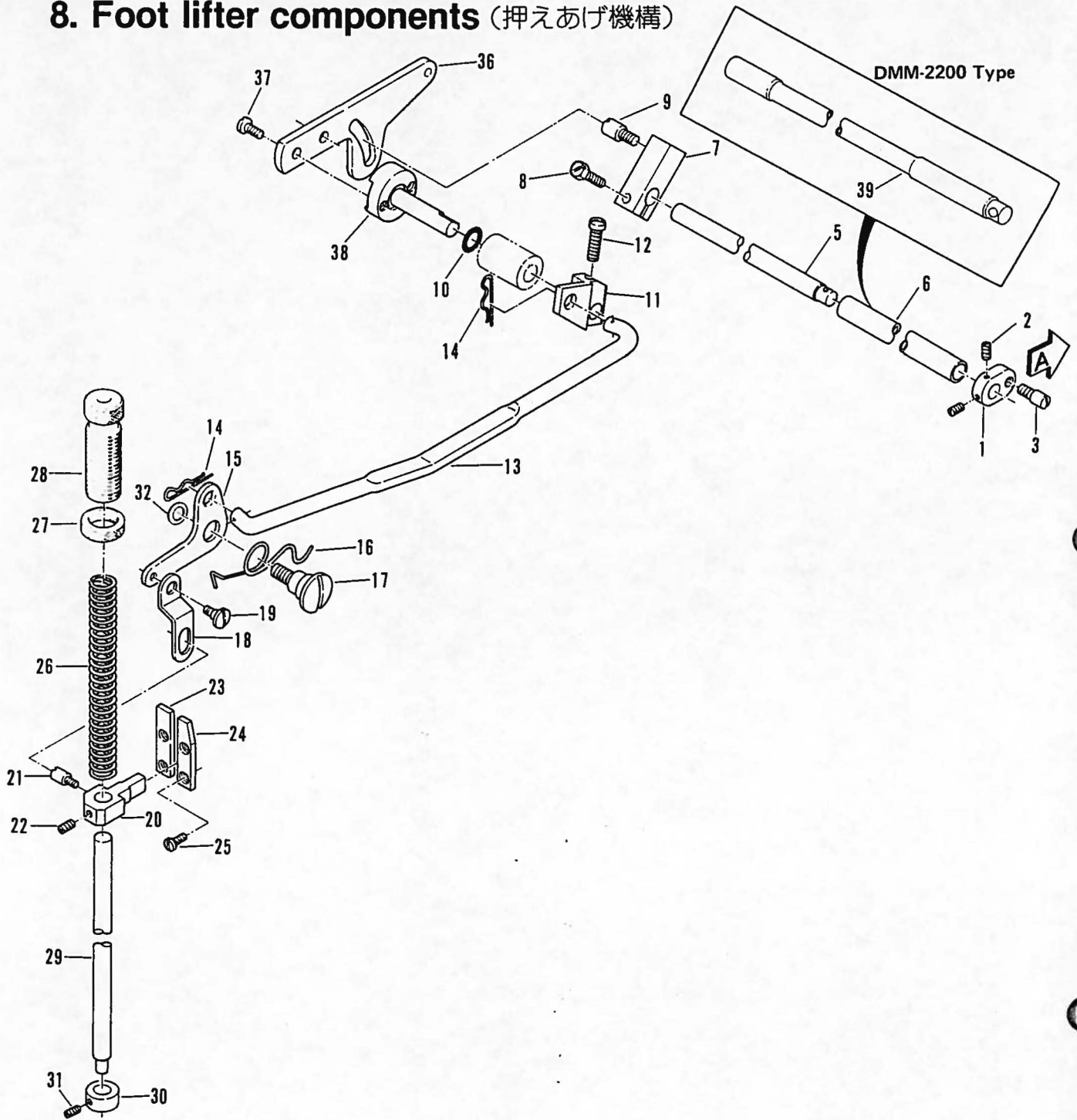
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|-----------------------------------|------|----------|----------|--------------------------------|------|
| * 1 | 71-874 | Main shaft 8A | 1 | 33 | 75-372 | Washer | 2 |
| 2 | 51-036 | Stitch regulating stud cup | 1 | * 34 | 51-102 | Differential feed rocker | 1 |
| 3 | 23-197 | O-ring | 1 | 35 | 84-571 | Screw | 2 |
| 4 | 23-393 | Felt | 1 | * 36 | 51-105 | Feed rocker segment shot plate | 1 |
| 5 | 51-013 | Feed crank adjusting post | 1 | 37 | 84-363 | Screw | 3 |
| 6 | 85-624 | Screw | 1 | * 38 | 71-531 | Shaft | 1 |
| 7 | 84-383 | Screw | 1 | 39 | | | |
| 8 | 51-031 | Main shaft plate | 1 | * 40 | 71-647 | Feed rocker arm shaft | 1 |
| 9 | 84-661 | Screw | 4 | 41 | 75-132 | Collar | 1 |
| * 10 | 61-322 | Feed eccentric 0.9 | 1 | 42 | 84-761 | Screw | 1 |
| 11 | 84-715 | Screw | 4 | 43 | 84-574 | Screw | 1 |
| 12 | 91-406 | Bearing | 2 | 44 | 84-576 | Screw | 1 |
| 13 | 63-232 | Eccentric link | 2 | 45 | 84-312 | Screw | 1 |
| 14 | 93-406 | Snap ring | 2 | * 46 | 51-103 | Main differential feed | 1 |
| 15 | 71-431 | Eccentric link pin | 2 | 47 | 84-512 | Screw | 1 |
| 16 | 23-341 | Felt | 2 | * 48 | 51-109 | Differential feed bar guide | 1 |
| * 17 | 61-312 | Looper avoid eccentric 0.8 | 1 | 49 | 84-379 | Screw | 2 |
| 18 | 75-114 | Collar | 1 | * 50 | 66-506 | Feed crank link | 1 |
| 19 | 84-511 | Screw | 2 | 51 | 86-311 | Nut | 1 |
| 20 | 49-133 | Looper thread double disc take up | 1 | 52 | 75-458 | Washer | 1 |
| 21 | 84-711 | Screw | 2 | * 53 | 51-113 | Crank set pin | 1 |
| 22 | 84-576 | Screw | 1 | 54 | 75-458 | Washer | 1 |
| 23 | 75-243 | Feed crank link collar | 1 | 55 | 86-411 | Nut | 1 |
| 24 | 91-271 | Bearing | 1 | * 56 | 51-120 | Front feed dog holder bracket | 1 |
| 25 | 75-453 | Washer | 1 | 57 | 84-363 | Screw | 1 |
| 26 | 86-412 | Nut | 1 | * 58 | 51-111 | Differential feed bar guide | 2 |
| * 27 | 67-312 | Feed rocker arm | 1 | * 59 | 84-164 | Screw | 4 |
| 28 | 84-366 | Screw | 1 | 60 | 84-462 | Screw | 1 |
| * 29 | 63-352 | Feed rocker link | 1 | 61 | 84-366 | Screw | 1 |
| 30 | 84-814 | Screw | 1 | * 62 | 84-162 | Screw | 2 |
| 31 | 71-431 | Feed rocker link pin | 1 | 63 | 75-455 | Washer | 1 |
| * 32 | 93-261 | Snap link | 1 | 64 | 84-614 | Screw | 1 |
| * 86-A | 50-131 | Feed rocker ass'y | | 65 | 81-141 | Bushing | 2 |
| * 86-B | 60-720 | Feed rocker arm ass'y | | | | | |
| * 86-C | 60-090 | Feed eccentric link ass'y | | | | | |
| 86-D | 60-780 | Looper avoid eccentric link ass'y | | | | | |
| * 86-E | 70-181 | Main shaft 8A | | | | | |

7. Looper (ルーパー機構)



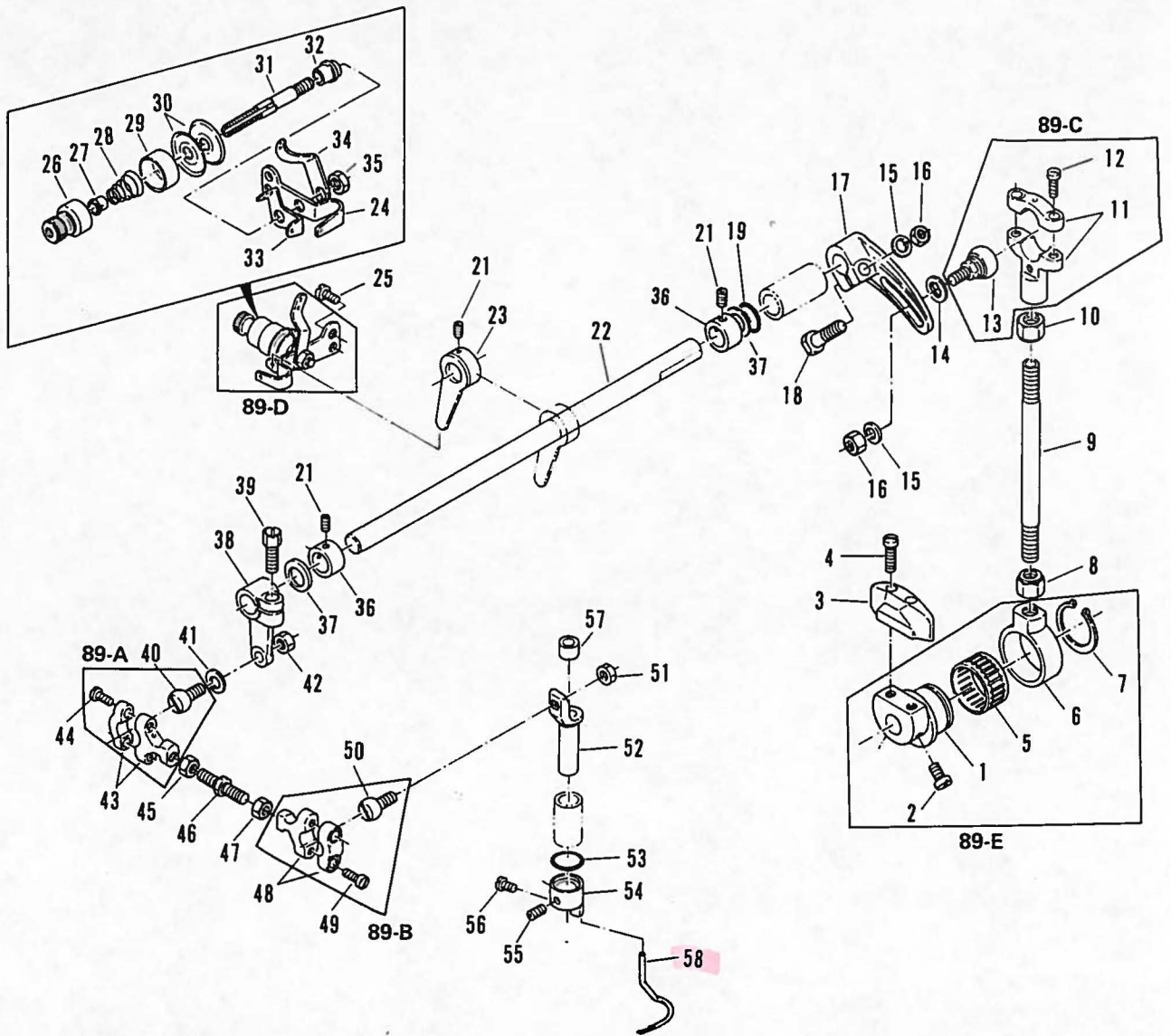
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|-------------------------------------|------|----------|----------|------------------------|------|
| 1 | 71-561 | Looper holder shaft | 1 | 25 | 71-216 | Adjust pin | 1 |
| 2 | 75-371 | Washer | 1 | 26 | 84-161 | Screw | 1 |
| 3 | 75-139 | Looper holder shaft collar | 1 | 27 | 84-616 | Screw | 1 |
| 4 | 71-454 | Screw | 1 | 28 | 86-413 | Nut | 1 |
| 5 | 67-132 | Looper avoid lever | 1 | 29 | 75-453 | Washer | 2 |
| 6 | 84-612 | Screw | 1 | 30 | 61-823 | Connecting ball | 1 |
| 7 | 84-366 | Screw | 1 | 31 | 63-812 | Connecting rod | 1 |
| 8 | 84-761 | Screw | 2 | 32 | 84-572 | Screw | 2 |
| 9 | 75-371 | Washer | 1 | 33 | 86-412 | Nut (left) | 1 |
| 10 | 18-722 | Needle bar guide bracket | 1 | * 34 | 65-435 | Connecting bar | 1 |
| 11 | 84-616 | Screw | 2 | 35 | 86-411 | Nut | 1 |
| 12 | 18-721 | Needle bar guide | 1 | * 36 | 63-811 | Connecting rod | 1 |
| 13 | 84-162 | Screw | 2 | 37 | 84-572 | Screw | 2 |
| 14 | 19-303 | Looper rocker | 1 | 38 | 61-823 | Connecting ball | 1 |
| 15 | 84-767 | Screw | 1 | 39 | 75-401 | Washer | 1 |
| 16 | 84-766 | Screw | 1 | * 40 | 67-225 | Looper driving lever E | 1 |
| 17 | 86-502 | Nut | 1 | 41 | 85-211 | Screw | 1 |
| 18 | 71-901 | Looper rocker tapered pin | 1 | 42 | 86-411 | Nut | 1 |
| 19 | 81-401 | Tapered pin bushing | 1 | 43 | 75-331 | Washer | 1 |
| 20 | 84-521 | Screw | 2 | 44 | 92-231 | Bearing | 1 |
| 21 | 75-452 | Washer | 1 | 45 | 75-327 | Washer | 1 |
| 22 | 86-501 | Nut | 1 | 46 | 35-199 | Oil guide | 1 |
| 23 | 84-361 | Screw | 1 | 47 | 84-164 | Screw | 1 |
| * 24 | 19-315 | Looper holder C | 1 | 48 | 86-314 | Nut | 1 |
| * 87-A | 10-915 | Looper holder E ass'y | | | | | |
| 87-B | 60-382 | Looper connecting link ass'y | | | | | |
| 87-C | 60-381 | Looper connecting link, right ass'y | | | | | |

8. Foot lifter components (押えあげ機構)



| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|--|------|----------|----------|--|------|
| 1 | 77-101 | Lifter lever connecting | 1 | 21 | 84-561 | Screw | 1 |
| 2 | 84-512 | Screw | 2 | 22 | 84-521 | Screw | 1 |
| 3 | 84-562 | Screw | 1 | 23 | 77-135 | Presser bar connecting guide left | 1 |
| 4 | | | | 24 | 77-136 | Presser bar connecting guide right | 1 |
| 5 | 77-111 | Foot lifter crankshaft B | 1 | 25 | 84-362 | Screw | 4 |
| 6 | 77-121 | Crankshaft pipe | 1 | 26 | 79-121 | Presser bar spring | 1 |
| 7 | 77-103 | Adjusting post supporter | 1 | 27 | 86-851 | Nut | 1 |
| 8 | 84-812 | Screw | 1 | 28 | 85-762 | Presser bar screw | 1 |
| 9 | 84-561 | Screw | 1 | 29 | 71-542 | Presser bar | 1 |
| 10 | 23-189 | O-ring | 1 | 30 | 75-154 | Collar | 1 |
| 11 | 77-107 | Presser foot lifter connecting plate | 1 | 31 | 84-511 | Screw | 1 |
| 12 | 84-764 | Screw | 1 | 32 | 75-453 | Washer | 1 |
| 13 | 77-116 | Lifter lever connecting bar | 1 | 33 | | | |
| 14 | 93-611 | Snap pin A | 2 | 34 | | | |
| 15 | 77-109 | Lifter lever spring supporter | 1 | 35 | | | |
| 16 | 79-222 | Lifter lever spring | 1 | 36 | 77-143 | Presser foot lifter lever | 1 |
| 17 | 84-781 | Screw | 1 | 37 | 84-566 | Screw | 2 |
| 18 | 77-131 | Lifter lever link | 1 | 38 | 77-114 | Presser foot lifter lever post | 1 |
| 19 | 84-581 | Screw | 1 | 39 | 77-113 | Foot lifter shaft | 1 |
| 20 | 77-133 | Presser bar guide | 1 | 40 | | | |

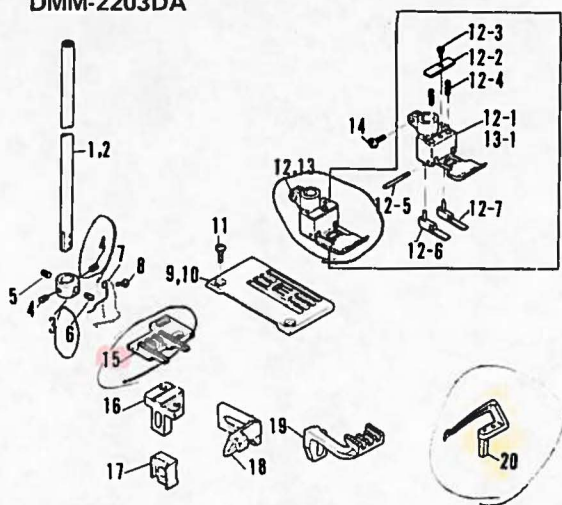
9. Upper shaft components (上飾り機構)



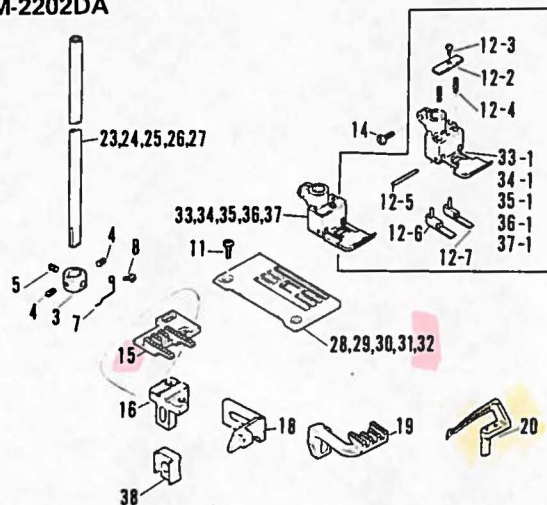
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|-------------------------------------|------|----------|----------|----------------------------|------|
| * 1 | 61-201 | Puller driving eccentric | 1 | * 30 | 41-111 | Tension disc | 2 |
| 2 | 84-762 | Screw | 2 | * 31 | 41-172 | Tension rod | 1 |
| * 3 | 69-241 | Balance, large | 1 | * 32 | 41-131 | Collar A | 1 |
| 4 | 84-568 | Screw | 2 | * 33 | 41-115 | Thread eyelet, upper | 1 |
| 5 | 91-156 | Upper shaft bearing | 1 | * 34 | 41-117 | Thread eyelet, lower | 1 |
| 6 | 63-201 | Upper shaft connecting link | 1 | * 35 | 86-411 | Nut | 1 |
| * 7 | 93-251 | 25φ snap ring | 1 | 36 | 75-113 | Collar | 1 |
| 8 | 86-741 | Nut | 1 | 37 | 75-332 | Washer | 2 |
| * 9 | 65-302 | Upper shaft connecting rod | 1 | 38 | 67-251 | Covering lever | 1 |
| 10 | 86-742 | Nut, left | 1 | 39 | 85-211 | Screw | 1 |
| 11 | 63-711 | Connecting ball joint, small | 1 | 40 | 61-823 | Connecting rod | 1 |
| 12 | 84-567 | Screw | 2 | 41 | 75-403 | Washer | 1 |
| 13 | 61-714 | Connecting rod | 1 | 42 | 86-411 | Nut | 1 |
| 14 | 75-491 | Washer | 1 | 43 | 63-818 | Connecting ball joint | 1 |
| 15 | 75-381 | Washer | 2 | 44 | 84-572 | Screw | 2 |
| 16 | 86-501 | Nut | 2 | 45 | 86-412 | Nut | 1 |
| 17 | 67-172 | Lever, rear | 1 | 46 | 65-402 | Connecting rod, S | 1 |
| 18 | 55-061 | Screw | 1 | 47 | 86-411 | Nut | 1 |
| 19 | 23-200 | O-ring | 1 | 48 | 63-816 | Covering thread ball joint | 1 |
| 20 | | | | 49 | 84-572 | Screw | 2 |
| 21 | 84-718 | Screw | 4 | 50 | 61-806 | Connecting rod | 1 |
| 22 | 71-692 | Upper shaft | 1 | 51 | 86-413 | Nut | 1 |
| * 23 | 45-911 | Covering thread guide | 1 | 52 | 04-206 | Covering base | 1 |
| * 24 | 45-913 | Covering thread guide eyelet | 1 | 53 | 23-200 | O-ring | 1 |
| 25 | 84-571 | Screw | 2 | 54 | 04-211 | Covering holder | 1 |
| * 26 | 41-101 | Small case | 1 | 55 | 84-521 | Screw | 2 |
| * 27 | 41-105 | Ratchet | 1 | 56 | 84-361 | Screw | 2 |
| * 28 | 41-702 | Spring | 1 | 57 | 94-231 | 8.1φ shaft seal | 1 |
| * 29 | 41-107 | L. Case | 1 | * 58 | 19-806 | Covering looper | 1 |
| 89-A | 60-382 | Connecting ball joint ass'y | | | | | |
| 89-B | 60-381 | Covering thread ball joint ass'y | | | | | |
| 89-C | 60-374 | Puller driving ball joint ass'y | | | | | |
| * 89-D | 40-181 | Covering tension base ass'y | | | | | |
| * 89-E | 60-150 | Upper shaft driving eccentric ass'y | | | | | |

10. Gauge parts (1) (ゲージ関係(1))

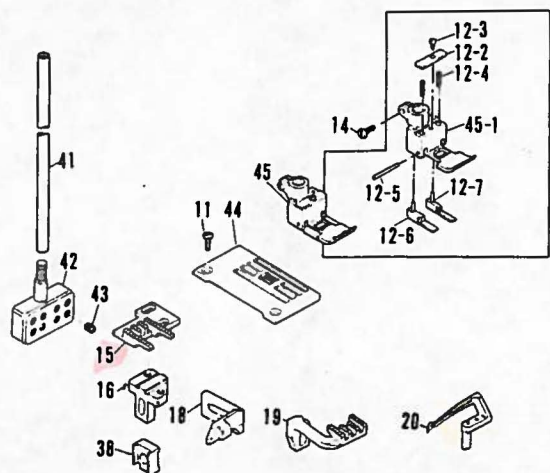
DWK-1803D
DMM-2203DA



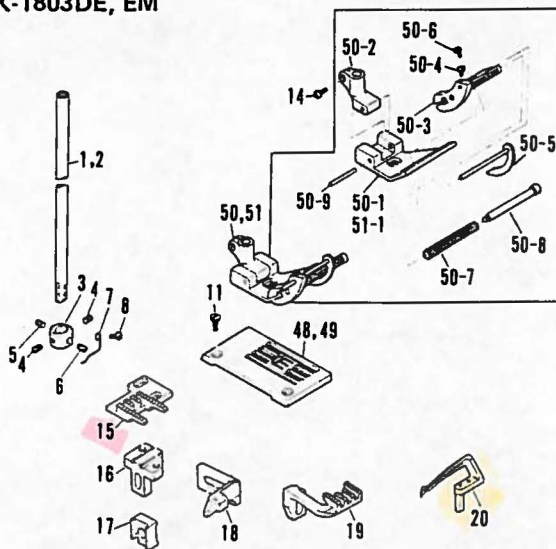
DWK-1802D
DMM-2202DA



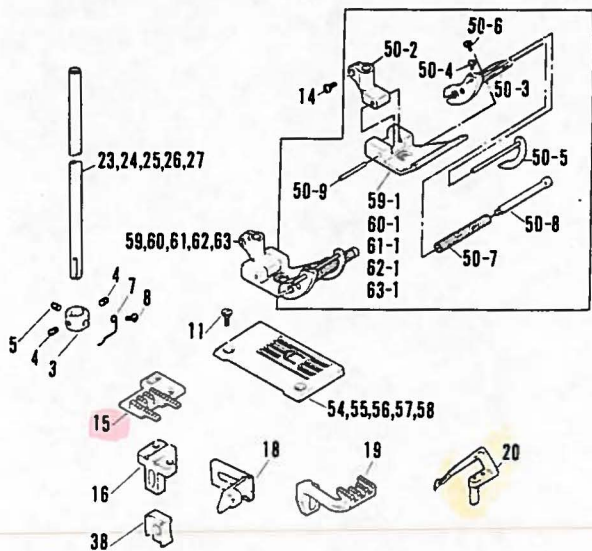
DWK-1804D



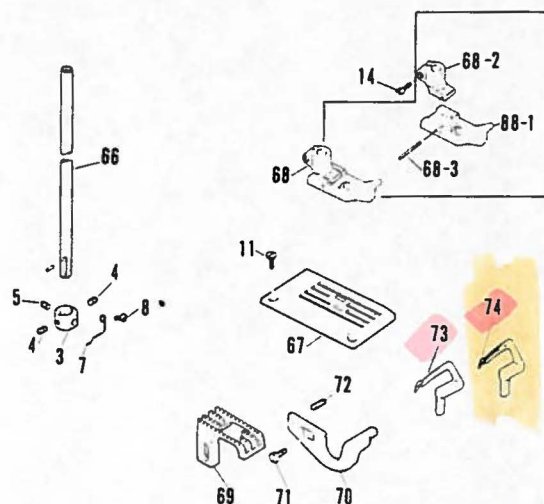
DWK-1803DE, EM



DWK-1802DE, EM



DWK-1842



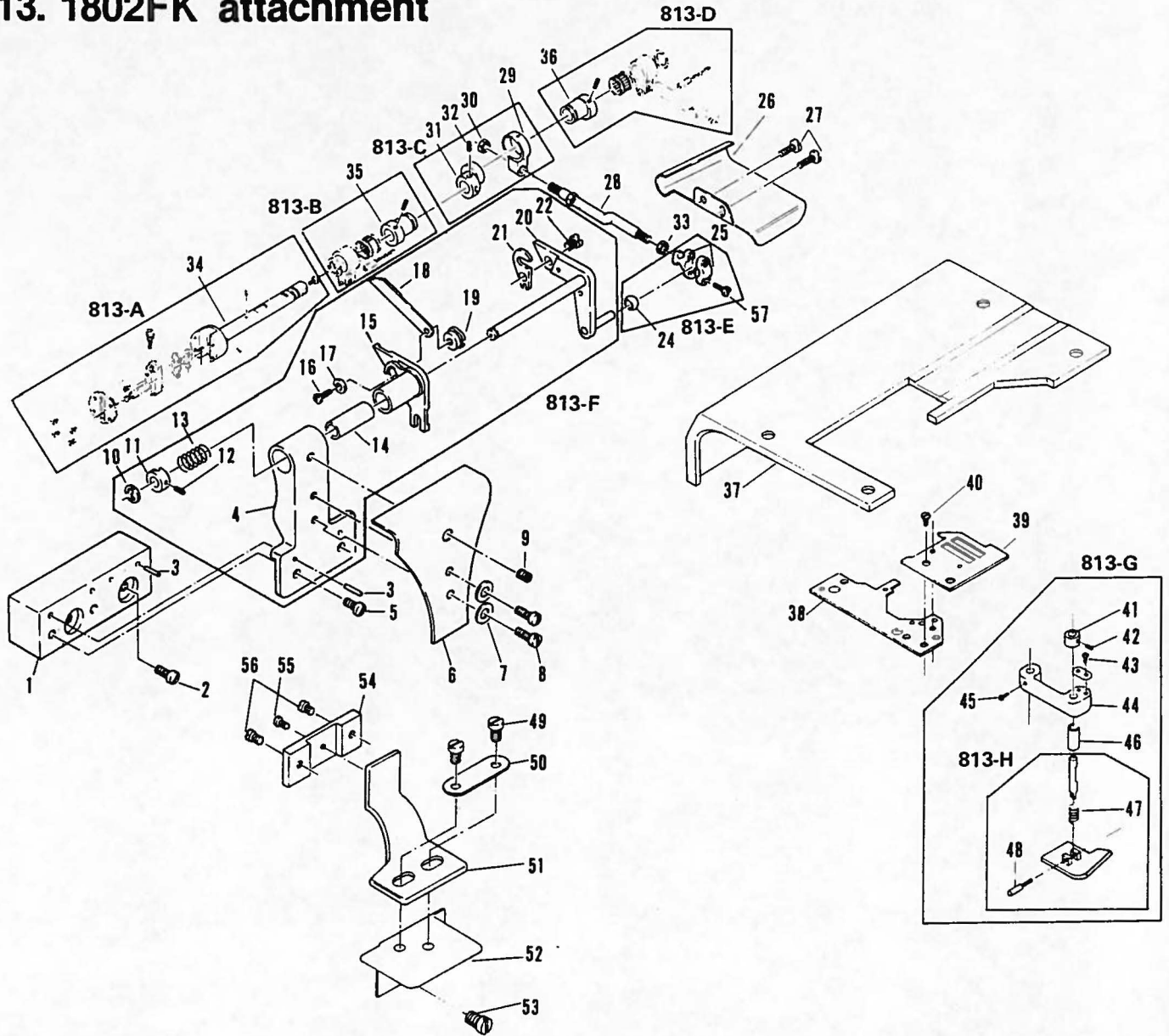
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|----------------------------|--------|----------|----------|----------------------|--------|
| 1 | 11-735 | Needle bar 7/32" | 1 | 41 | 11-704 | Needle bar | 1 |
| 2 | 11-736 | Needle bar 1/4" | 1 | 42 | 12-893 | Needle clamp | 1 |
| 3 | 12-702 | Needle clamp | 1 | 43 | 84-111 | Screw | 4 |
| 4 | 84-511 | Screw | 2 | 44 | 14-893 | Throat plate 6mm | 1 |
| 5 | 84-513 | Screw | 1 | 45 | 17-893 | Presser foot 6mm | .1 set |
| 6 | 84-168 | Screw | 1 | 45-1 | 17-893-1 | Presser foot, bottom | 1 |
| 7 | 45-232 | Needle thread guide | 1 | 46 | | | |
| 8 | 84-163 | Screw | 1 | 47 | | | |
| 9 | 14-854 | Throat plate 7/32" | 1 | 48 | 14-855 | Throat plate 7/32" | 1 |
| 10 | 14-864 | Throat plate 1/4" | 1 | 49 | 14-865 | Throat plate 1/4" | 1 |
| 11 | 84-464 | Screw | 2 | 50 | 17-885 | Presser foot 7/32" | .1 set |
| 12 | 17-884 | Presser foot 7/32" | .1 set | 50-1 | 17-885-2 | Presser foot, bottom | 1 |
| 12-1 | 17-884-1 | Presser foot, bottom | 1 | 50-2 | 17-785-1 | Presser foot, shank | 1 |
| 12-2 | 17-784-4 | Spring plate | 1 | 50-3 | 17-785-3 | Guide | 1 |
| 12-3 | 85-623 | Screw | 1 | 50-4 | 84-364 | Screw | 1 |
| 12-4 | 17-784-5 | Spring | 1 | 50-5 | 17-785-4 | Slide guide | 1 |
| 12-5 | 17-784-3 | Pin | 1 | 50-6 | 85-611 | Screw | 1 |
| 12-6 | 17-784-2 | Feed section guide (left) | 1 | 50-7 | 17-785-6 | Roller | 1 |
| 12-7 | 17-784-2 | Feed section guide (right) | 1 | 50-8 | 17-785-5 | Roller shaft | 1 |
| 13 | 17-894 | Presser foot 1/4" | .1 set | 50-9 | | Pin | 1 |
| 13-1 | 17-894-1 | Presser foot, bottom | 1 | 51 | 17-895 | Presser foot 1/4" | .1 set |
| 14 | 84-382 | Screw | 1 | 51-1 | 17-895-2 | Presser foot, bottom | |
| 15 | 15-753 | Rear feed dog | 1 | 52 | | | |
| 16 | 51-118 | Rear feed dog holder A | 1 | 53 | | | |
| 17 | 18-709 | Needle guard holder | 1 | 54 | 14-725 | Throat plate 1/8" | 1 |
| 18 | 18-707 | Needle guard | 1 | 55 | 14-735 | Throat plate 5/32" | 1 |
| 19 | 15-723 | Front feed dog | 1 | 56 | 14-745 | Throat plate 3/16" | 1 |
| 20 | 19-713 | Looper | 1 | 57 | 14-755 | Throat plate 7/32" | 1 |
| 21 | | | | 58 | 14-765 | Throat plate 1/4" | 1 |
| 22 | | | | 59 | 17-825 | Presser foot 1/8" | 1 |
| 23 | 11-722 | Needle bar 1/8" | 1 | 59-1 | 17-825-2 | Presser foot, bottom | 1 |
| 24 | 11-723 | Needle bar 5/32" | 1 | 60 | 17-835 | Presser foot 5/32" | 1 |
| 25 | 11-724 | Needle bar 3/16" | 1 | 60-1 | 17-835-2 | Presser foot, bottom | 1 |
| 26 | 11-725 | Needle bar 7/32" | 1 | 61 | 17-845 | Presser foot 3/16" | 1 |
| 27 | 11-726 | Needle bar 1/4" | 1 | 61-1 | 17-845-2 | Presser foot, bottom | 1 |
| 28 | 14-724 | Throat plate 1/8" | 1 | 62 | 17-855 | Presser foot 7/32" | 1 |
| 29 | 14-734 | Throat plate 5/32" | 1 | 62-1 | 17-855-2 | Presser foot, bottom | 1 |
| 30 | 14-744 | Throat plate 3/16" | 1 | 63 | 17-865 | Presser foot 1/4" | 1 |
| 31 | 14-754 | Throat plate 7/32" | 1 | 63-1 | 17-865-2 | Presser foot, bottom | 1 |
| 32 | 14-764 | Throat plate 1/4" | 1 | 64 | | | |
| 33 | 17-824 | Presser foot 1/8" | .1 set | 65 | | | |
| 33-1 | 17-824-1 | Presser foot, bottom | 1 | 66 | 11-875 | Needle bar 1/4" | 1 |
| 34 | 17-834 | Presser foot 5/32" | .1 set | 67 | 14-815 | Throat plate 1/4" | 1 |
| 34-1 | 17-834-1 | Presser foot, bottom | 1 | 68 | 17-875 | Presser foot 1/4" | 1 |
| 35 | 17-844 | Presser foot 3/16" | .1 set | 68-1 | 17-875-2 | Presser foot, bottom | 1 |
| 35-1 | 17-844-1 | Presser foot, bottom | 1 | 68-2 | 17-785-1 | Presser foot, shank | 1 |
| 36 | 17-854 | Presser foot 7/32" | .1 set | 68-3 | 17-512-3 | Pin | 1 |
| 36-1 | 17-854-1 | Presser foot, bottom | 1 | 69 | 15-815 | Feed dog | 1 |
| 37 | 17-864 | Presser foot 1/4" | .1 set | 70 | 18-875 | Needle guard | 1 |
| 37-1 | 17-864-1 | Presser foot, bottom | 1 | 71 | 84-368 | Screw | 1 |
| 38 | 18-708 | Needle guard holder | 1 | 72 | 84-113 | Screw | 1 |
| 39 | | | | 73 | 19-875 | Looper front | 1 |
| 40 | | | | 74 | 19-518 | Looper rear | 1 |

| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|-----------------------|------|----------|-----------|-----------------------|------|
| 1 | 11-722 | Needle bar 1/8" | 1 | 36 | | | |
| 2 | 11-723 | Needle bar 5/32" | 1 | 37 | | | |
| 3 | 11-724 | Needle bar 3/16" | 1 | 38 | | | |
| 4 | 11-725 | Needle bar 7/32" | 1 | 39 | | | |
| 5 | 11-726 | Needle bar 1/4" | 1 | 40 | | | |
| 6 | 12-702 | Needle clamp | 1 | 41 | | | |
| 7 | 84-511 | Screw | 2 | 42 | 11-735 | Needle bar 7/32" | 1 |
| 8 | 84-513 | Screw | 1 | 43 | 11-736 | Needle bar 1/4" | 1 |
| 9 | 45-232 | Needle thread guide | 1 | 44 | 84-168 | Screw | 1 |
| 10 | 84-163 | Screw | 1 | 45 | 14-858 | Throat plate 7/32" | 1 |
| 11 | 14-726 | Throat plate 1/8" | 1 | 46 | 14-868 | Throat plate 1/4" | 1 |
| 12 | 14-736 | Throat plate 5/32" | 1 | 47 | 17-888 | Presser foot 7/32" | 1 |
| 13 | 14-746 | Throat plate 3/16" | 1 | 47-1 | 17-888-2 | Presser foot, bottom | 1 |
| 14 | 14-756 | Throat plate 7/32" | 1 | 47-2 | 17-786-1 | Presser foot, shank | 1 |
| 15 | 14-766 | Throat plate 1/4" | 1 | 47-3 | 17-786-4 | Hinge screw | 1 |
| 16 | 84-464 | Screw | 1 | 47-4 | 17-786-5 | Yielding section pin. | 1 |
| 17 | 17-826 | Presser foot 1/8" | 1 | 47-5 | 85-621 | Screw | 1 |
| 17-1 | 17-826-2 | Presser foot, bottom | 1 | 47-6 | 17-728-4 | Yielding section. | 1 |
| 17-2 | 17-726-1 | Presser foot, shank | 1 | 47-7 | | Pin | 1 |
| 17-3 | 17-726-4 | Hinge screw | 1 | 47-8 | 17-728-6 | Slide guide. | 1 |
| 17-4 | 17-726-7 | Spring | 1 | 47-9 | 17-728-7 | Guide. | 1 |
| 17-5 | 17-726-3 | Yielding section | 1 | 47-10 | 84-161 | Screw | 1 |
| 17-6 | | Pin | 1 | 47-11 | 17-728-10 | Tape section. | 1 |
| 17-7 | 17-726-5 | Yielding section pin. | 1 | 47-12 | 85-611 | Screw | 1 |
| 17-8 | 85-621 | Screw | 1 | 47-13 | 17-728-11 | Guide plate | 1 |
| 17-9 | 17-728-8 | Spring | 1 | 47-14 | 84-161 | Screw | 1 |
| 17-10 | 84-161 | Screw | 1 | 47-15 | 17-728-9 | Spring | 1 |
| 18 | 17-836 | Presser foot 5/32" | 1 | 47-16 | 84-171 | Screw | 1 |
| 18-1 | 17-836-2 | Presser foot, bottom | 1 | 47-17 | 17-728-6 | Spring | 1 |
| 18-5 | 17-736-3 | Yielding section | 1 | 47-18 | 84-161 | Screw | 1 |
| 19 | 17-846 | Presser foot 3/16" | 1 | 47-19 | 17-726-7 | Spring | 1 |
| 19-1 | 17-846-2 | Presser foot, bottom | 1 | 47-20 | 84-364 | Screw | 1 |
| 19-5 | 17-746-3 | Yielding section | 1 | 48 | 17-898 | Presser foot 1/4" | 1 |
| 20 | 17-856 | Presser foot 7/32" | 1 | 48-1 | 17-898-2 | Presser foot, bottom | 1 |
| 20-1 | 17-856-2 | Presser foot, bottom | 1 | 49 | 18-709 | Needle guard holder | 1 |
| 20-5 | 17-756-3 | Yielding section | 1 | 50 | 15-728 | Front feed dog | 1 |
| 21 | 17-866 | Presser foot 1/4" | 1 | 51 | | | |
| 21-1 | 17-866-2 | Presser foot, bottom | 1 | 52 | | | |
| 21-5 | 17-766-3 | Yielding section | 1 | 53 | 14-728 | Throat plate 1/8" | 1 |
| 22 | 84-382 | Screw | 1 | 54 | 14-738 | Throat plate 5/32" | 1 |
| 23 | 15-756 | Rear feed dog | 1 | 55 | 14-748 | Throat plate 3/16" | 1 |
| 24 | 51-117 | Rear feed dog holder | 1 | 56 | 14-758 | Throat plate 7/32" | 1 |
| 25 | 18-708 | Needle guard holder | 1 | 57 | 14-768 | Throat plate 1/4" | 1 |
| 26 | 18-707 | Needle guard | 1 | 58 | 17-828 | Presser foot 1/8" | 1 |
| 27 | 15-726 | Front feed dog | 1 | 58-1 | 17-828-2 | Presser foot, bottom | 1 |
| 28 | 19-713 | Looper | 1 | 59 | 17-838 | Presser foot 5/32" | 1 |
| 29 | | | | 59-1 | 17-838-2 | Presser foot, bottom | 1 |
| 30 | | | | 60 | 17-848 | Presser foot 3/16" | 1 |
| 31 | 14-856 | Throat plate 7/32" | 1 | 60-1 | 17-848-2 | Presser foot, bottom | 1 |
| 32 | 14-866 | Throat plate 1/4" | 1 | 61 | 17-858 | Presser foot 7/32" | 1 |
| 33 | 17-886 | Presser foot 7/32" | 1 | 61-1 | 17-858-2 | Presser foot, bottom | 1 |
| 33-1 | 17-886-2 | Presser foot, bottom | 1 | 62 | 17-868 | Presser foot 1/4" | 1 |
| 33-5 | 17-766-3 | Yielding section | 1 | 62-1 | 17-868-2 | Presser foot, bottom | 1 |
| 34 | 17-896 | Presser foot 1/4" | 1 | 63 | | | |
| 34-1 | 17-896-2 | Presser foot, bottom | 1 | 64 | | | |
| 35 | | | | 65 | 07-116 | Front feed dog | 1 |

12. Gauge lists (ゲージ表)

| No. | Model | Needle bar | Needle holder | Needle plate | Feed dog (front) | Feed dog (rear) | Presser foot | Looper | Needle guard |
|-----|---------------|------------|---------------|--------------|------------------|-----------------|--------------|---------------------------------|--------------|
| 1 | 1803D 7/32" | 11-735 | 12-702 | 14-854 | 15-723 | 15-753 | 17-884 | 19-713 | 18-707 |
| 2 | 1/4" | 11-736 | 12-702 | 14-864 | 15-723 | 15-753 | 17-894 | 19-713 | 18-707 |
| 3 | 1802D 1/8" | 11-722 | 12-702 | 14-724 | 15-723 | 15-753 | 17-824 | 19-713 | 18-707 |
| 4 | 5/32" | 11-723 | 12-702 | 14-734 | 15-723 | 15-753 | 17-834 | 19-713 | 18-707 |
| 5 | 3/16" | 11-724 | 12-702 | 14-744 | 15-723 | 15-753 | 17-844 | 19-713 | 18-707 |
| 6 | 7/32" | 11-725 | 12-702 | 14-754 | 15-723 | 15-753 | 17-854 | 19-713 | 18-707 |
| 7 | 1/4" | 11-726 | 12-702 | 14-764 | 15-723 | 15-753 | 17-864 | 19-713 | 18-707 |
| 8 | 1804D 15/64" | 11-704 | 12-893 | 14-893 | 15-723 | 15-753 | 17-893 | 19-713 | 18-707 |
| 9 | 1803DE 7/32" | 11-735 | 12-702 | 14-855 | 15-723 | 15-753 | 17-885 | 19-713 | 18-707 |
| 10 | 1/4" | 11-736 | 12-702 | 14-865 | 15-723 | 15-753 | 17-895 | 19-713 | 18-707 |
| 11 | 1802DE 1/8" | 11-722 | 12-702 | 14-725 | 15-723 | 15-753 | 17-825 | 19-713 | 18-707 |
| 12 | 5/32" | 11-723 | 12-702 | 14-735 | 15-723 | 15-753 | 17-835 | 19-713 | 18-707 |
| 13 | 3/16" | 11-724 | 12-702 | 14-745 | 15-723 | 15-753 | 17-845 | 19-713 | 18-707 |
| 14 | 7/32" | 11-725 | 12-702 | 14-755 | 15-723 | 15-753 | 17-855 | 19-713 | 18-707 |
| 15 | 1/4" | 11-726 | 12-702 | 14-765 | 15-723 | 15-753 | 17-865 | 19-713 | 18-707 |
| 16 | 1802F 1/8" | 11-722 | 12-702 | 14-726 | 15-726 | 15-756 | 17-826 | 19-713 | 18-707 |
| 17 | 5/32" | 11-723 | 12-702 | 14-736 | 15-726 | 15-756 | 17-836 | 19-713 | 18-707 |
| 18 | 3/16" | 11-724 | 12-702 | 14-746 | 15-726 | 15-756 | 17-846 | 19-713 | 18-707 |
| 19 | 7/32" | 11-725 | 12-702 | 14-756 | 15-726 | 15-756 | 17-856 | 19-713 | 18-707 |
| 20 | 1/4" | 11-726 | 12-702 | 14-766 | 15-726 | 15-756 | 17-866 | 19-713 | 18-707 |
| 21 | 1803F 7/32" | 11-735 | 12-702 | 14-856 | 15-726 | 15-756 | 17-886 | 19-713 | 18-707 |
| 22 | 1/4" | 11-736 | 12-702 | 14-866 | 15-726 | 15-756 | 17-896 | 19-713 | 18-707 |
| 23 | 1842 1/4" | 11-875 | 12-702 | 14-815 | 15-815 | | 17-875 | 19-875 (front) 19-518 (rear) | 18-875 |
| 24 | 1802EM 1/8" | 11-722 | 12-702 | 14-725 | 15-723 | 15-753 | 17-825 | 19-713 | 18-707 |
| 25 | 5/32" | 11-723 | 12-702 | 14-735 | 15-723 | 15-753 | 17-835 | 19-713 | 18-707 |
| 26 | 3/16" | 11-724 | 12-702 | 14-745 | 15-723 | 15-753 | 17-845 | 19-713 | 18-707 |
| 27 | 7/32" | 11-725 | 12-702 | 14-755 | 15-723 | 15-753 | 17-855 | 19-713 | 18-707 |
| 28 | 1/4" | 11-726 | 12-702 | 14-765 | 15-723 | 15-753 | 17-865 | 19-713 | 18-707 |
| 29 | 1802EMK 1/8" | 11-722 | 12-702 | 14-728 | 15-728 | 15-756 | 17-828 | 19-713 | 18-707 |
| 30 | 5/32" | 11-723 | 12-702 | 14-738 | 15-728 | 15-756 | 17-838 | 19-713 | 18-707 |
| 31 | 3/16" | 11-724 | 12-702 | 14-748 | 15-728 | 15-756 | 17-848 | 19-713 | 18-707 |
| 32 | 7/32" | 11-725 | 12-702 | 14-758 | 15-728 | 15-756 | 17-858 | 19-713 | 18-707 |
| 33 | 1/4" | 11-726 | 12-702 | 14-768 | 15-728 | 15-756 | 17-868 | 19-713 | 18-707 |
| 34 | 1803EM 7/32" | 11-735 | 12-702 | 14-855 | 15-723 | 15-753 | 17-885 | 19-713 | 18-707 |
| 35 | 1/4" | 11-736 | 12-702 | 14-865 | 15-723 | 15-753 | 17-895 | 19-713 | 18-707 |
| 36 | 1803EMK 7/32" | 11-735 | 12-702 | 14-858 | 15-728 | 15-756 | 17-888 | 19-713 | 18-707 |
| 37 | 1/4" | 11-736 | 12-702 | 14-868 | 15-728 | 15-756 | 17-898 | 19-713 | 18-707 |
| 38 | 1802FK 1/8" | 11-722 | 12-702 | 14-726 | 07-116 | 15-756 | 17-826 | 19-713 | 18-707 |
| 39 | 5/32" | 11-723 | 12-702 | 14-736 | 07-116 | 15-756 | 17-836 | 19-713 | 18-707 |
| 40 | 3/16" | 11-724 | 12-702 | 14-746 | 07-116 | 15-756 | 17-846 | 19-713 | 18-707 |
| 41 | 7/32" | 11-725 | 12-702 | 14-756 | 07-116 | 15-756 | 17-856 | 19-713 | 18-707 |
| 42 | 1/4" | 11-726 | 12-702 | 14-766 | 07-116 | 15-756 | 17-866 | 19-713 | 18-707 |
| 43 | 2202DA 1/8" | 11-722 | 12-702 | 14-724 | 15-723 | 15-753 | 17-824 | 19-713 | 18-707 |
| 44 | 5/32" | 11-723 | 12-702 | 14-734 | 15-723 | 15-753 | 17-834 | 19-713 | 18-707 |
| 45 | 3/16" | 11-724 | 12-702 | 14-744 | 15-723 | 15-753 | 17-844 | 19-713 | 18-707 |
| 46 | 7/32" | 11-725 | 12-702 | 14-754 | 15-723 | 15-753 | 17-854 | 19-713 | 18-707 |
| 47 | 1/4" | 11-726 | 12-702 | 14-764 | 15-723 | 15-753 | 17-864 | 19-713 | 18-707 |
| 48 | 2203DA 7/32" | 11-735 | 12-702 | 14-854 | 15-723 | 15-753 | 17-884 | 19-713 | 18-707 |
| 49 | 1/4" | 11-736 | 12-702 | 14-864 | 15-723 | 15-753 | 17-894 | 19-713 | 18-707 |
| 50 | 2202FA 1/8" | 11-722 | 12-702 | 14-726 | 15-726 | 15-756 | 17-826 | 19-713 | 18-707 |
| 51 | 5/32" | 11-723 | 12-702 | 14-736 | 15-726 | 15-756 | 17-836 | 19-713 | 18-707 |
| 52 | 3/16" | 11-724 | 12-702 | 14-746 | 15-726 | 15-756 | 17-846 | 19-713 | 18-707 |
| 53 | 7/32" | 11-725 | 12-702 | 14-756 | 15-726 | 15-756 | 17-856 | 19-713 | 18-707 |
| 54 | 1/4" | 11-726 | 12-702 | 14-766 | 15-726 | 15-756 | 17-866 | 19-713 | 18-707 |
| 55 | 2203FA 7/32" | 11-735 | 12-702 | 14-856 | 15-726 | 15-756 | 17-886 | 19-713 | 18-707 |
| 56 | 1/4" | 11-736 | 12-702 | 14-866 | 15-726 | 15-756 | 17-896 | 19-713 | 18-707 |

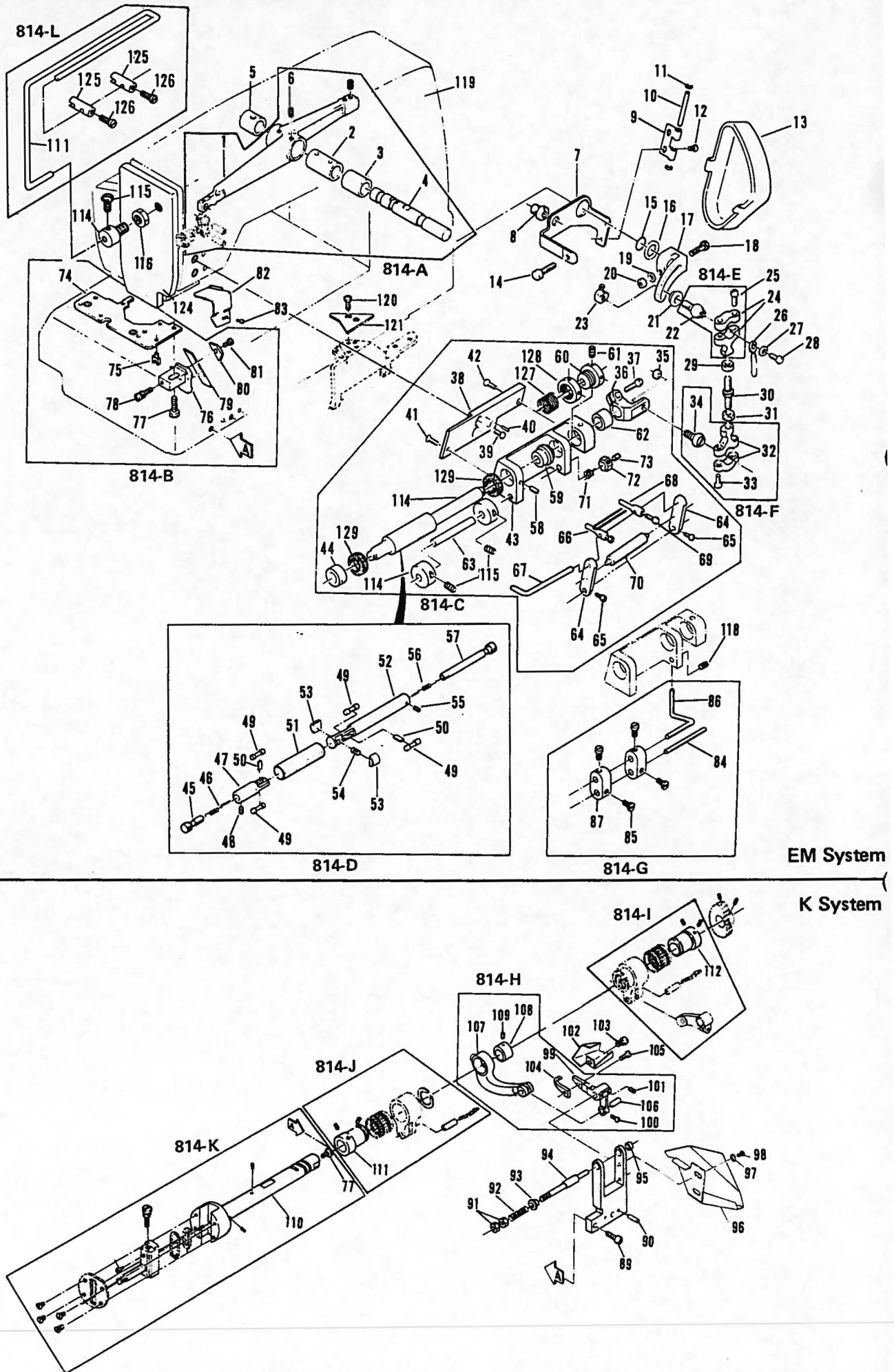
13. 1802FK attachment



| Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|---|------|
| 1 | 07-114 | Base bracket | 1 |
| 2 | 85-629 | Screw | 2 |
| 3 | 71-306 | Knock pin | 4 |
| 4 | 07-101 | Front knife base bracket | 1 |
| 5 | 84-763 | Screw | 2 |
| 6 | 07-112 | Front knife cover | 1 |
| 7 | 75-455 | Washer | 2 |
| 8 | 84-374 | Screw | 2 |
| 9 | 84-521 | Screw | 1 |
| 10 | 93-221 | φ8 snap ring | 1 |
| 11 | 75-154 | Collar | 1 |
| 12 | 84-511 | Screw | 1 |
| 13 | 79-142 | Spring | 1 |
| 14 | 81-338 | Bushing | 1 |
| 15 | 07-102 | Bracket | 1 |
| 16 | 84-761 | Screw | 1 |
| 17 | 75-384 | Washer | 1 |
| 18 | 07-104 | Lower knife | 1 |
| 19 | 07-106 | Lower knife bracket | 1 |
| 20 | 07-103 | Upper knife bracket | 1 |
| 21 | 07-105 | Upper knife | 1 |
| 22 | 84-362 | Screw | 1 |
| 23 | 75-401 | Washer | 2 |
| 24 | 61-841 | Connecting ball | 1 |
| 25 | 63-811 | Connecting rod | 1 |
| 26 | 07-108 | Slide guide plate | 1 |
| 27 | 84-161 | Screw | 2 |
| 28 | 65-506 | Connecting bar | 1 |
| 29 | 63-211 | Connecting rod | 1 |
| 813-A | 70-153 | Main shaft 5C ass'y | |
| 813-B | 70-090 | Feed eccentric link ass'y | |
| 813-C | 60-129 | Front scalpel eccentric link ass'y (FK) | |
| 813-D | 60-780 | Looper avoid eccentric link ass'y | |

| Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|------------------------------|------|
| 30 | 86-411 | Nut | 1 |
| 31 | 61-253 | Eccentric | 1 |
| 32 | 84-712 | Screw | 2 |
| 33 | 86-411 | Nut | 1 |
| 34 | 71-753 | Main shaft 5C | 1 |
| 35 | 61-322 | Eccentric (0.9) | 1 |
| 36 | 61-312 | Eccentric (0.8) | 1 |
| 37 | 21-504 | Upper cloth plate | 1 |
| 38 | 14-075 | Needle plate support | 1 |
| 39 | 07-115 | Plate for FK | 1 |
| 40 | 84-464 | Screw | 2 |
| 41 | 75-154 | Collar | 1 |
| 42 | 84-521 | Screw | 1 |
| 43 | 84-363 | Screw | 2 |
| 44 | 07-117 | Auxiliary foot bracket | 1 |
| 45 | 84-566 | Screw | 1 |
| 46 | 07-294 | Bush | 1 |
| 47 | 79-142 | Spring | 1 |
| 48 | 07-118 | Presser foot support | 1 |
| 49 | 85-181 | Screw | 2 |
| 50 | 26-712 | Folder base bracket | 1 |
| 51 | 07-120 | Folder base B | 1 |
| 52 | 07-132 | Folder base | 1 |
| 53 | 84-571 | Screw | 2 |
| 54 | 26-713 | Folder base for F | 1 |
| 55 | 84-571 | Screw | 1 |
| 56 | 84-566 | Screw | 2 |
| 57 | 84-572 | Screw | 2 |
| 813-E | 60-383 | Connecting ball joint ass'y | |
| 813-F | 00-780 | Front scalpel ass'y (FK) | |
| 813-G | 00-785 | Auxiliary foot bracket ass'y | |
| 813-H | 07-118 | Auxiliary foot ass'y | |

14. EM・EMK attachment (EM・EMK関係)

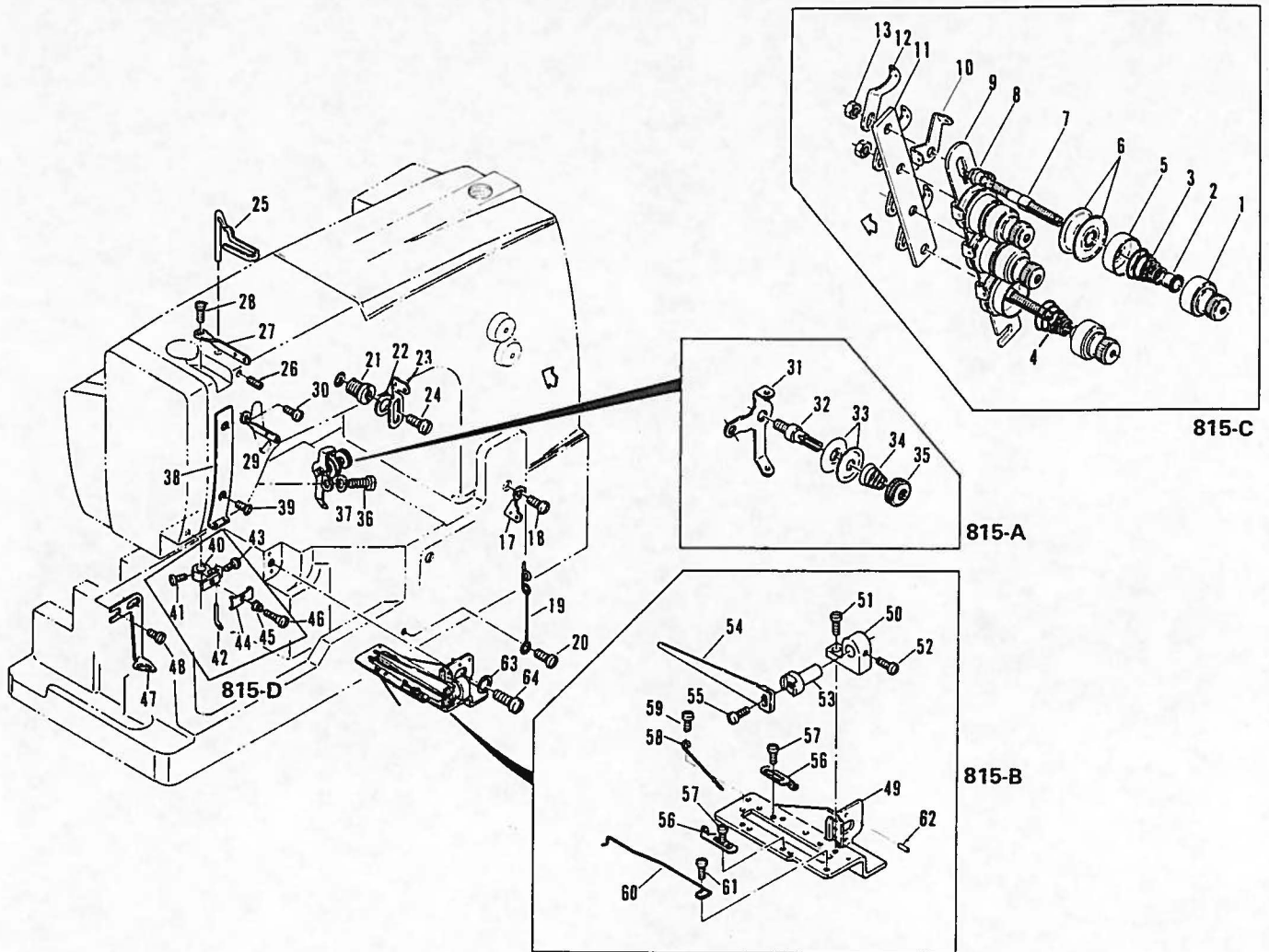


| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|--|------|----------|----------|--|------|
| 1 | 69-106 | Needle lever F | 1 | 66 | 01-350 | Elastic guide bracket, right | 1 |
| 2 | 81-213 | Needle lever bushing R (EMK) | 1 | 67 | 01-348 | Rubber guide bar | 1 |
| 3 | 81-166 | Needle lever stud bushing, large (EMK) | 1 | 68 | 01-349 | Elastic guide bracket | 1 |
| 4 | 71-936 | Needle lever stud shaft F | 1 | 69 | 84-161 | Screw | 2 |
| 5 | 81-167 | Needle lever stud bushing, small | 1 | 70 | 01-336 | Roller | 1 |
| 6 | 85-113 | Screw | 2 | 71 | 79-158 | Spring | 1 |
| 7 | 01-305 | Cover set plate | 1 | 72 | 01-314 | Spring nut | 1 |
| 8 | 85-531 | Screw | 1 | 73 | 84-715 | Screw | 1 |
| 9 | 01-317 | Cover hinge | 1 | 74 | 14-082 | Needle plate support | 1 |
| 10 | 01-318 | Hinge pin | 1 | 75 | 07-334 | Guide pin | 1 |
| 11 | 93-200 | Snap pin | 2 | 76 | 07-331 | Lower knife fitting | 1 |
| 12 | 84-164 | Screw | 2 | 77 | 84-812 | Screw | 1 |
| 13 | 01-304 | Safety cover | 1 | 78 | 84-377 | Screw | 1 |
| 14 | 01-316 | Cover screw | 1 | 79 | 07-125 | Lower knife | 1 |
| 15 | 23-197 | O-ring | 1 | 80 | 07-333 | Lower presser foot | 1 |
| 16 | 75-328 | Washer | 1 | 81 | 84-580 | Screw | 1 |
| 17 | 01-321 | Driver slide lever | 1 | 82 | 26-764 | Front ruler B | 1 |
| 18 | 55-061 | Feed lever fixing pin | 1 | 83 | 84-370 | Screw | 1 |
| 19 | 75-452 | Washer | 1 | 84 | 01-353 | Slider bar | 1 |
| 20 | 86-501 | Nut | 1 | 85 | 84-312 | Screw | 4 |
| 21 | 75-466 | Washer | 1 | 86 | 01-340 | Guide bar | 1 |
| 22 | 61-826 | Slide lever connecting link | 1 | 87 | 01-351 | Slide bar holder | 2 |
| 23 | 01-324 | Slide lever guide nut | 1 | 88 | 07-121 | Base bracket | 1 |
| 24 | 63-818 | Looper connecting ball joint, right | 1 | 89 | 84-812 | Screw | 2 |
| 25 | 84-572 | Screw | 2 | 90 | 71-306 | Knock pin | 2 |
| 26 | 01-325 | Slide drive lever | 1 | 91 | 86-501 | Nut | 2 |
| 27 | 75-465 | Washer | 1 | 92 | 79-171 | Spring | 1 |
| 28 | 84-162 | Screw | 1 | 93 | 07-144 | Front knife bracket bushing | 1 |
| 29 | 86-415 | Nut | 1 | 94 | 07-131 | Guide shaft for holder | 1 |
| 30 | 65-505 | Connecting bar | 1 | 95 | 07-143 | Bracket bushing right | 1 |
| 31 | 86-413 | Nut | 1 | 96 | 07-128 | Slide guide plate | 1 |
| 32 | 63-816 | Connecting ball joint | 1 | 97 | 75-455 | Washer | 2 |
| 33 | 84-572 | Screw | 2 | 98 | 84-575 | Screw | 2 |
| 34 | 61-806 | Upper covering connecting link | 1 | 99 | 07-123 | Upper knife bracket | 1 |
| 35 | 86-413 | Nut | 1 | 100 | 84-365 | Screw | 1 |
| 36 | 01-322 | Driver lever | 1 | 101 | 84-521 | Screw | 1 |
| 37 | 84-812 | Screw | 1 | 102 | 07-130 | Slide guide plate | 1 |
| 38 | 01-303 | Fixing liner | 1 | 103 | 84-361 | Screw | 1 |
| 39 | 84-812 | Screw | 1 | 104 | 07-124 | Upper knife | 1 |
| 40 | 71-306 | Knock pin | 1 | 105 | 84-362 | Screw | 1 |
| 41 | 84-862 | Screw | 1 | 106 | 71-432 | Needle bar connecting link pin | 1 |
| 42 | 84-763 | Screw | 1 | 107 | 63-213 | Front knife connecting link | 1 |
| 43 | 01-301 | Elastic adjuster holder | 1 | 108 | 61-252 | Front knife eccentric | 1 |
| 44 | 81-170 | Rocker bushing, left | 1 | 109 | 84-711 | Screw | 1 |
| 45 | 01-344 | Snap handle, left | 1 | 110 | 71-782 | Main shaft 8B | 1 |
| 46 | 01-342 | Snap spring, left | 1 | **111 | 61-322 | Eccentric (0.9) | 1 |
| 47 | 01-307 | Check clutch shaft, small | 1 | **112 | 61-312 | Eccentric (0.8) | 1 |
| 48 | 84-311 | Screw | 1 | 113 | 21-329 | Head cover | 1 |
| 49 | 01-309 | Check clutch collar, small | 4 | 114 | 85-721 | Screw | 1 |
| 50 | 01-312 | Check clutch roller guard plate | 2 | 115 | 84-361 | Screw | 1 |
| 51 | 01-331 | Feed roller, large | 1 | 116 | 86-721 | Nut | 1 |
| 52 | 01-306 | Check clutch shaft, large | 1 | 117 | 01-351 | Tape guide | 1 |
| 53 | 01-311 | Thrust fiber | 2 | 118 | 84-313 | Screw | 1 |
| 54 | 79-175 | Fiber pressing spring | 1 | 119 | 22-754 | Arm head EMK Type | 1 |
| 55 | 84-311 | Screw | 1 | 120 | 84-572 | Screw | 2 |
| 56 | 01-341 | Snap spring, right | 1 | 121 | 21-111 | Ruler plate | 1 |
| 57 | 01-343 | Snap handle, right | 1 | 122 | 75-156 | Guide collar | 2 |
| 58 | 84-515 | Screw | 1 | 123 | 84-312 | Screw | 2 |
| 59 | 81-164 | Rocker bushing middle | 1 | 124 | 21-330 | Head cover EMK | 1 |
| 60 | 75-126 | Collar | 1 | 125 | 01-358 | Tape guide holder | 2 |
| 61 | 84-512 | Screw | 2 | 126 | 84-361 | Screw | 2 |
| 62 | 81-168 | Rocker bushing, right | 1 | 127 | 01-326 | Brake | 2 |
| 63 | 01-346 | Guide bar | 1 | 128 | 79-174 | Spring | 1 |
| 64 | 01-337 | Roller guard plate | 2 | 129 | 87-516 | Nut | 1 |
| 65 | 84-164 | Screw | 4 | | | | |
| 814-A | 60-977 | Needle lever ass'y | | 814-G | 00-175 | Tape guide ass'y | |
| 814-B | 10-470 | Needle plate support ass'y | | 814-H | 00-770 | Upper knife ass'y | |
| 814-C | 00-170 | EMK MD set | | 814-I | 60-080 | Looper avoid eccentric link ass'y | |
| 814-D | 00-171 | Check clutch ass'y | | 814-J | 60-090 | Feed eccentric link ass'y | |
| 814-E | 60-385 | Connecting ball joint A | | 814-K | 70-182 | Main shaft 8B (EMK) ass'y | |
| 814-F | 60-381 | Connecting ball joint B | | 814-L | 00-176 | Tape guide (EMK) ass'y | |

Note: Parts marked with ** are the same as those used in fundamental models (D-type or F-type)

(注) 参照番号に ** 印の付いた部品は基本機種(D-タイプまたはF-タイプ)と共通部品です。

15. 1842 (Thread eyelet components) (糸道関係)

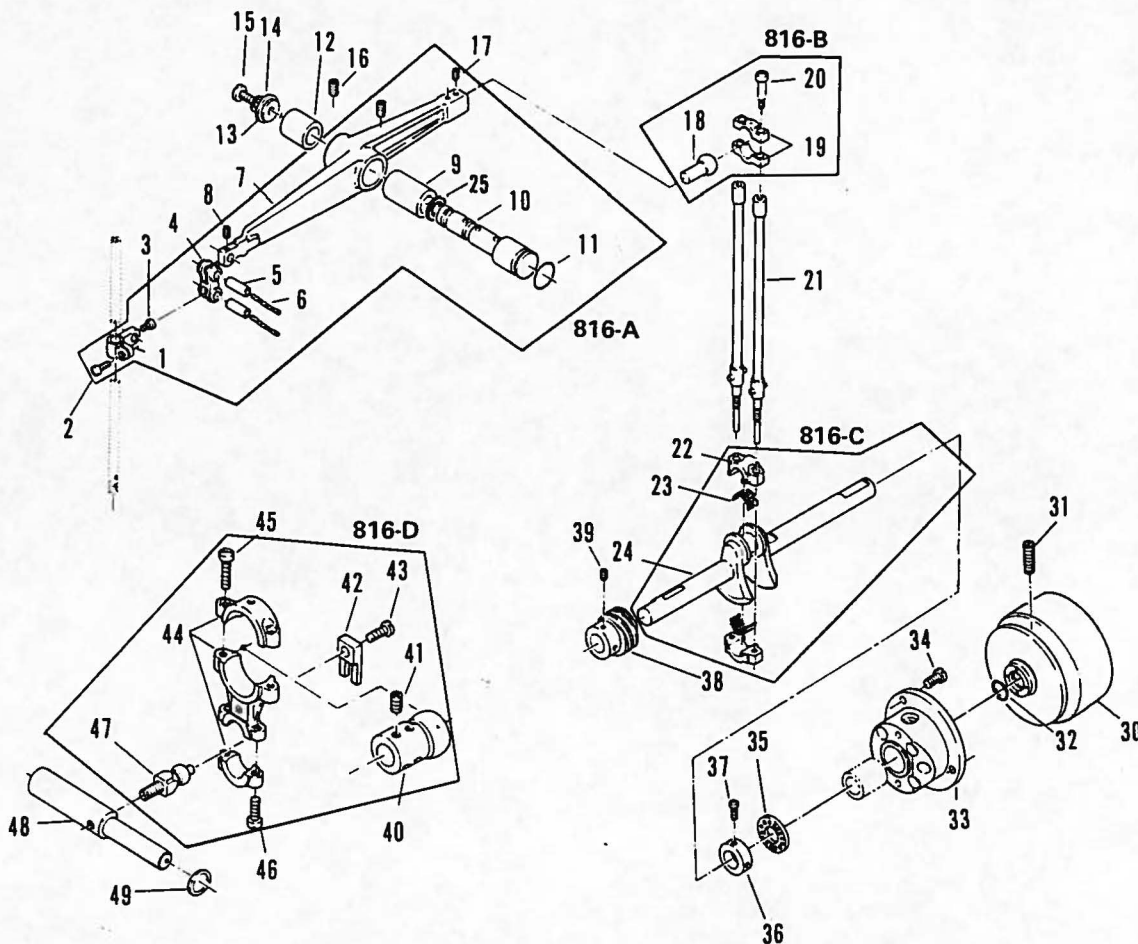


| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|--|------|----------|----------|---|------|
| ** 1 | 41-101 | Tension regulating nut | 4 | ** 33 | 41-152 | Needle thread tension regulating disc . . . | 2 |
| ** 2 | 41-105 | Tension disc ratchet | 4 | ** 34 | 41-153 | Needle thread tension regulating spring . . | 1 |
| ** 3 | 41-701 | Needle thread tension spring | 2 | ** 35 | 41-154 | Needle thread tension regulating nut . . . | 1 |
| ** 4 | 41-702 | Looper thread tension spring | 2 | ** 36 | 84-571 | Screw | 1 |
| ** 5 | 41-107 | Tension disc cover | 4 | ** 37 | 75-453 | Washer | 1 |
| ** 6 | 41-111 | Tension disc | 8 | ** 38 | 45-151 | Needle thread guide | 1 |
| ** 7 | 41-172 | Tension post | 4 | ** 39 | 84-464 | Screw | 2 |
| ** 8 | 41-131 | Tension post collar A | 4 | ** 40 | 41-303 | Tension nipper plate | 1 |
| ** 9 | 41-113 | Tension post support | 1 | ** 41 | 84-364 | Screw | 1 |
| **10 | 41-115 | Tension post thread eyelet | 4 | ** 42 | 45-917 | 'L' thread eyelet | 1 |
| **11 | 41-121 | Tension post holder | 1 | ** 43 | 85-621 | Screw | 1 |
| **12 | 41-117 | Lead in thread eyelet | 4 | ** 44 | 45-142 | Tension nipper | 1 |
| **13 | 86-411 | Nut | 2 | ** 45 | 41-721 | Tension nipper spring | 1 |
| 14 | | | | ** 46 | 84-171 | Screw | 1 |
| 15 | | | | ** 47 | 45-922 | Zigzag thread eyelet | 1 |
| 16 | | | | ** 48 | 84-361 | Screw | 2 |
| **17 | 47-101 | Tension disc cover eyelet 2 | 1 | ** 49 | 43-331 | Cast-off support plate | 1 |
| **18 | 84-374 | Screw | 1 | ** 50 | 43-339 | Retainer support bracket | 1 |
| **19 | 47-202 | Looper thread guide eyelet | 1 | ** 51 | 84-162 | Screw | 1 |
| **20 | 84-361 | Screw | 1 | ** 52 | 84-161 | Screw | 1 |
| **21 | 85-531 | Screw | 1 | ** 53 | 43-112 | Pin for looper thread retainer | 1 |
| **22 | 75-456 | Washer | 1 | ** 54 | 43-333 | Looper thread retainer | 1 |
| **23 | 45-101 | Needle thread eyelet 2 | 1 | ** 55 | 84-374 | Screw | 1 |
| **24 | 84-571 | Screw | 1 | ** 56 | 43-337 | Looper thread guide eyelet | 2 |
| **25 | 45-225 | Needle thread take-up wire | 1 | ** 57 | 85-621 | Screw | 2 |
| **26 | 84-521 | Screw | 1 | 58 | 43-105 | Looper thread cast-off pin | 1 |
| **27 | 45-131 | Needle bar thread eyelet 2 | 1 | 59 | 85-621 | Screw | 1 |
| **28 | 84-361 | Screw | 1 | ** 60 | 43-335 | Looper thread cast-off pin | 1 |
| **29 | 45-121 | Needle lever thread eyelet 2 | 1 | ** 61 | 84-163 | Screw | 1 |
| **30 | 84-361 | Screw | 1 | ** 62 | 71-191 | Pin | 2 |
| **31 | 45-921 | Needle thread tension regulating support . | 1 | ** 63 | 75-456 | Washer | 1 |
| **32 | 41-151 | Needle thread tension regulating rod . . . | 1 | ** 64 | 84-571 | Screw | 1 |
| **815-A | 40-180 | Covering thread tension base ass'y | | | | | |
| 815-B | 40-382 | Cast-off support plate ass'y (1842) | | | | | |
| **815-C | 40-122 | Thread tension ass'y | | | | | |
| **815-D | 40-571 | Tension nipper ass'y | | | | | |

NOTE: Parts marked with ** are the same as those used in fundamental models (D-type or F-type).

(注) 参照番号に ** 印の付いた部品は基本機種 (D-タイプまたはF-タイプ) と共通部品です。

16. 1842 (Needle lever crank) (弓・クランク機構)



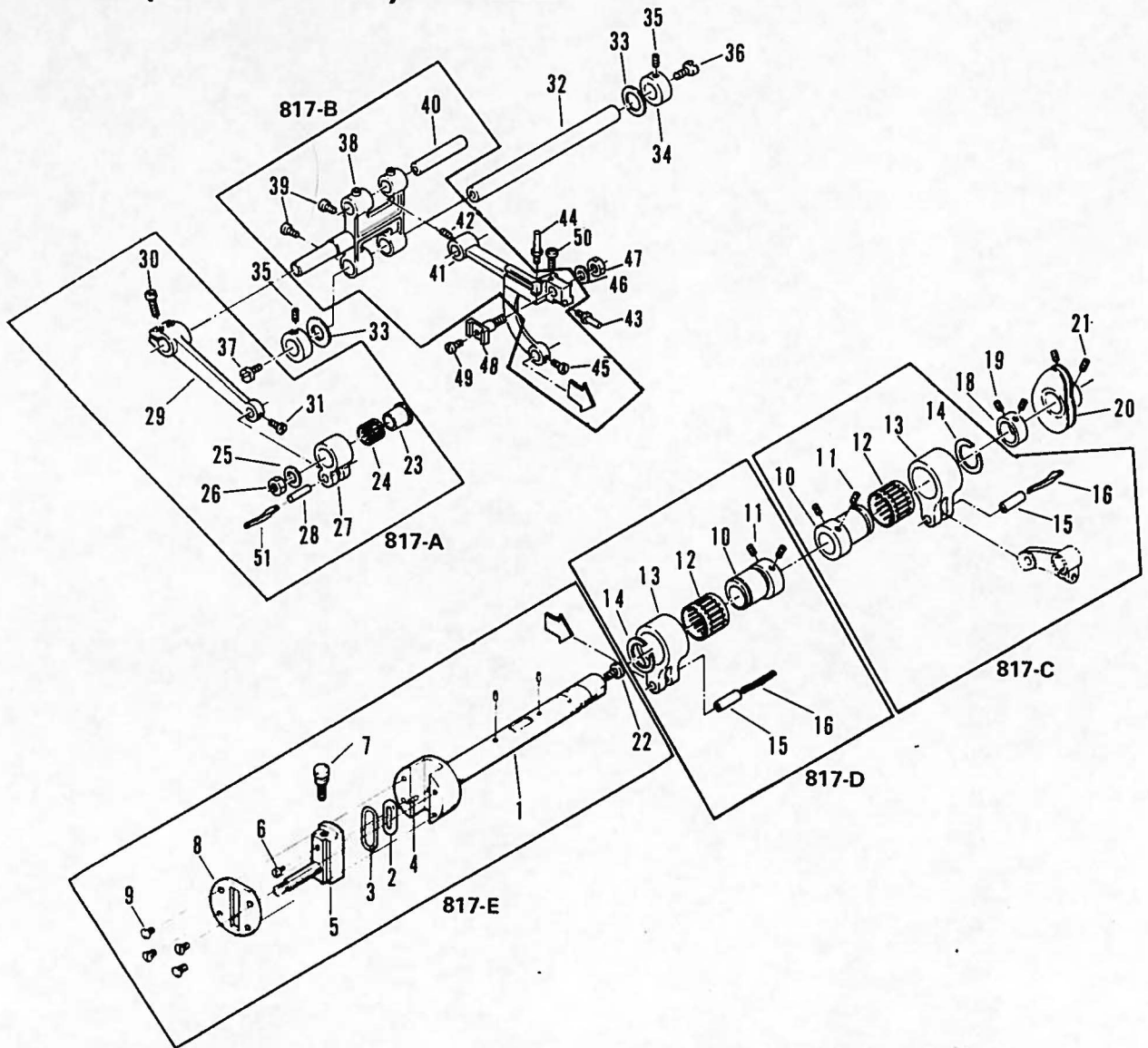
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|---------------------------------------|------|----------|----------|---|------|
| ** 1 | 73-113 | Needle bar connection | 1 | 26 | | | |
| ** 2 | 84-572 | Screw | 1 | 27 | | | |
| ** 3 | 84-365 | Screw | 1 | 28 | | | |
| ** 4 | 66-111 | Needle bar connecting link | 1 | 29 | | | |
| ** 5 | 71-432 | Needle bar connecting pin | 2 | ** 30 | 69-203 | Pulley | 1 |
| ** 6 | 23-341 | Felt | 2 | ** 31 | 85-114 | Screw | 2 |
| ** 7 | 69-105 | Needle lever | 1 | ** 32 | 23-197 | O-ring | 1 |
| ** 8 | 84-365 | Screw | 1 | ** 33 | 69-305 | Flange E | 1 |
| ** 9 | 81-113 | Needle lever bushing | 1 | ** 34 | 84-566 | Screw | 3 |
| ** 10 | 71-933 | Needle lever stud | 1 | ** 35 | 92-231 | Bearing | 1 |
| ** 11 | 23-195 | O-ring | 1 | ** 36 | 75-112 | Crank shaft collar | 1 |
| ** 12 | 81-412 | Needle lever stud bushing | 1 | ** 37 | 84-563 | Screw | 2 |
| ** 13 | 39-107 | Oil seal plate | 1 | ** 38 | 31-410 | Worm gear | 1 |
| ** 14 | 23-260 | Gasket | 1 | ** 39 | 84-718 | Screw | 2 |
| ** 15 | 85-182 | Screw | 1 | 40 | 61-512 | Looper driving eccentric | 1 |
| ** 16 | 85-114 | Screw | 2 | 41 | 85-113 | Screw | 6 |
| ** 17 | 85-212 | Screw | 2 | ** 42 | 69-121 | Eccentric guide fork | 1 |
| ** 18 | 61-722 | Needle lever connecting rod | 1 | ** 43 | 84-591 | Screw | 1 |
| ** 19 | 63-721 | Ball joint | 1 | 44 | 63-511 | Looper driving lever ball joint | 1 |
| ** 20 | 84-586 | Screw | 2 | 45 | 84-568 | Screw | 2 |
| ** 21 | 65-311 | Connecting bar | 2 | 46 | 84-567 | Screw | 2 |
| ** 22 | 63-331 | Ball joint | 1 | ** 47 | 61-713 | Looper driving connecting rod | 1 |
| ** 23 | 91-011 | Needle bearing | 28 | ** 48 | 71-612 | Looper driving shaft | 1 |
| 24 | 71-854 | Crank shaft 5M | 1 | ** 49 | 75-332 | Washer | 1 |
| ** 25 | 75-332 | Washer | 1 | 50 | | | |
| ** 816-A | 60-971 | Needle lever ass'y | | | | | |
| ** 816-B | 60-340 | Needle bar connection ass'y | | | | | |
| 816-C | 70-035 | Crank shaft 5M ass'y | | | | | |
| 816-D | 60-355 | Looper driving ball joint ass'y | | | | | |

NOTE: Parts marked with ** are the same as those used in fundamental models (D-type or F-type).

(注) 参照番号に ** 印の付いた部品は基本機種(D-タイプまたはF-タイプ)と共通部品です。

Subclass model (サブクラス機種)

17. 1842 (Feed rocker) (送り機構)



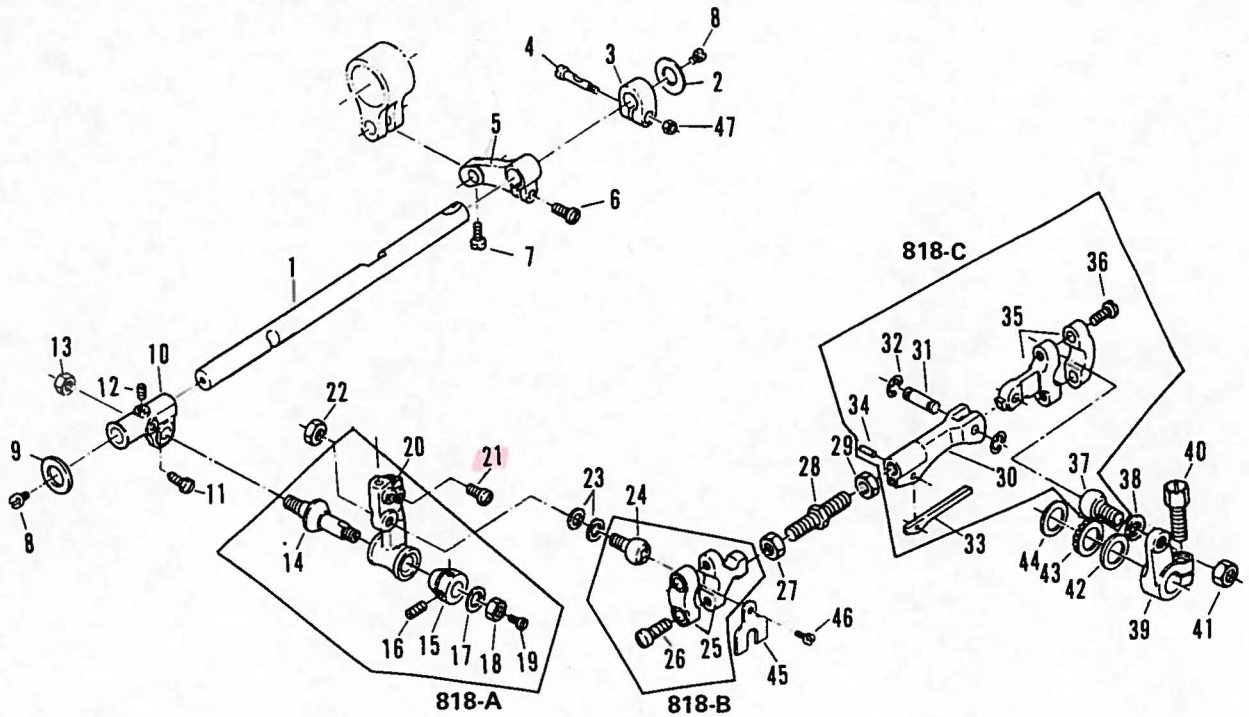
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|---|------|----------|----------|---------------------------------|------|
| ** 1 | 71-753 | Main shaft 5C | 1 | 26 | 86-412 | Nut | 1 |
| ** 2 | 51-036 | Stitch regulating stud cup | 1 | 27 | 63-351 | Feed rocker link | 1 |
| ** 3 | 23-197 | O-ring | 1 | 28 | 71-432 | Eccentric link pin | 1 |
| ** 4 | 23-393 | Felt | 1 | 29 | 67-311 | Feed rocker arm | 1 |
| ** 5 | 51-013 | Feed crank adjusting post | 1 | 30 | 84-612 | Screw | 2 |
| ** 6 | 85-624 | Screw | 1 | 31 | 84-366 | Screw | 1 |
| ** 7 | 84-383 | Screw | 1 | 32 | 71-642 | Feed rocker arm shaft | 1 |
| ** 8 | 51-031 | Main shaft plate | 1 | 33 | 75-371 | Washer | 2 |
| ** 9 | 84-661 | Screw | 4 | 34 | 75-132 | Collar | 2 |
| 10 | 61-312 | Eccentric 0.8 | 2 | 35 | 84-761 | Screw | 2 |
| **11 | 84-715 | Screw | 4 | 36 | 84-574 | Screw | 1 |
| **12 | 91-406 | Bearing | 2 | 37 | 84-576 | Screw | 1 |
| **13 | 63-232 | Eccentric link | 2 | 38 | 55-041 | Feed rocker arm | 1 |
| **14 | 93-406 | Snap ring | 2 | 39 | 84-571 | Screw | 2 |
| **15 | 71-431 | Eccentric link pin | 2 | 40 | 71-531 | Shaft | 1 |
| **16 | 23-341 | Felt | 2 | 41 | 55-174 | Feed rocker | 1 |
| 17 | | | | 42 | 84-712 | Screw | 1 |
| **18 | 75-114 | Collar | 1 | 43 | 84-176 | Screw | 1 |
| **19 | 84-511 | Screw | 2 | 44 | 84-177 | Screw | 1 |
| **20 | 49-133 | Looper thread double disk take up | 1 | 45 | 84-366 | Screw | 1 |
| **21 | 84-711 | Screw | 2 | 46 | 75-381 | Washer | 1 |
| 22 | 84-576 | Screw | 1 | 47 | 86-501 | Nut | 1 |
| 23 | 75-243 | Feed crank link collar | 1 | 48 | 55-051 | Feed dog holder | 1 |
| 24 | 91-271 | Bearing | 1 | 49 | 84-588 | Screw | 1 |
| 25 | 75-453 | Washer | 1 | 50 | 84-463 | Screw | 1 |
| 817-A | 60-711 | Feed rocker arm ass'y | | 51 | 23-341 | Felt | 1 |
| 817-B | 50-571 | Feed rocker ass'y | | | | | |
| **817-C | 60-780 | Looper avoid eccentric link ass'y | | | | | |
| 817-D | 60-080 | Feed eccentric link ass'y | | | | | |
| 817-E | 70-153 | Main shaft 5C ass'y | | | | | |

NOTE: Parts marked with ** are the same as those used in fundamental models (D-type or F-type).

(注) 参照番号に ** 印の付いた部品は基本機種(D-タイプまたはF-タイプ)と共通部品です。

Subclass model (サブクラス機種)

18. 1842 (Looper) (ルーパー機構)

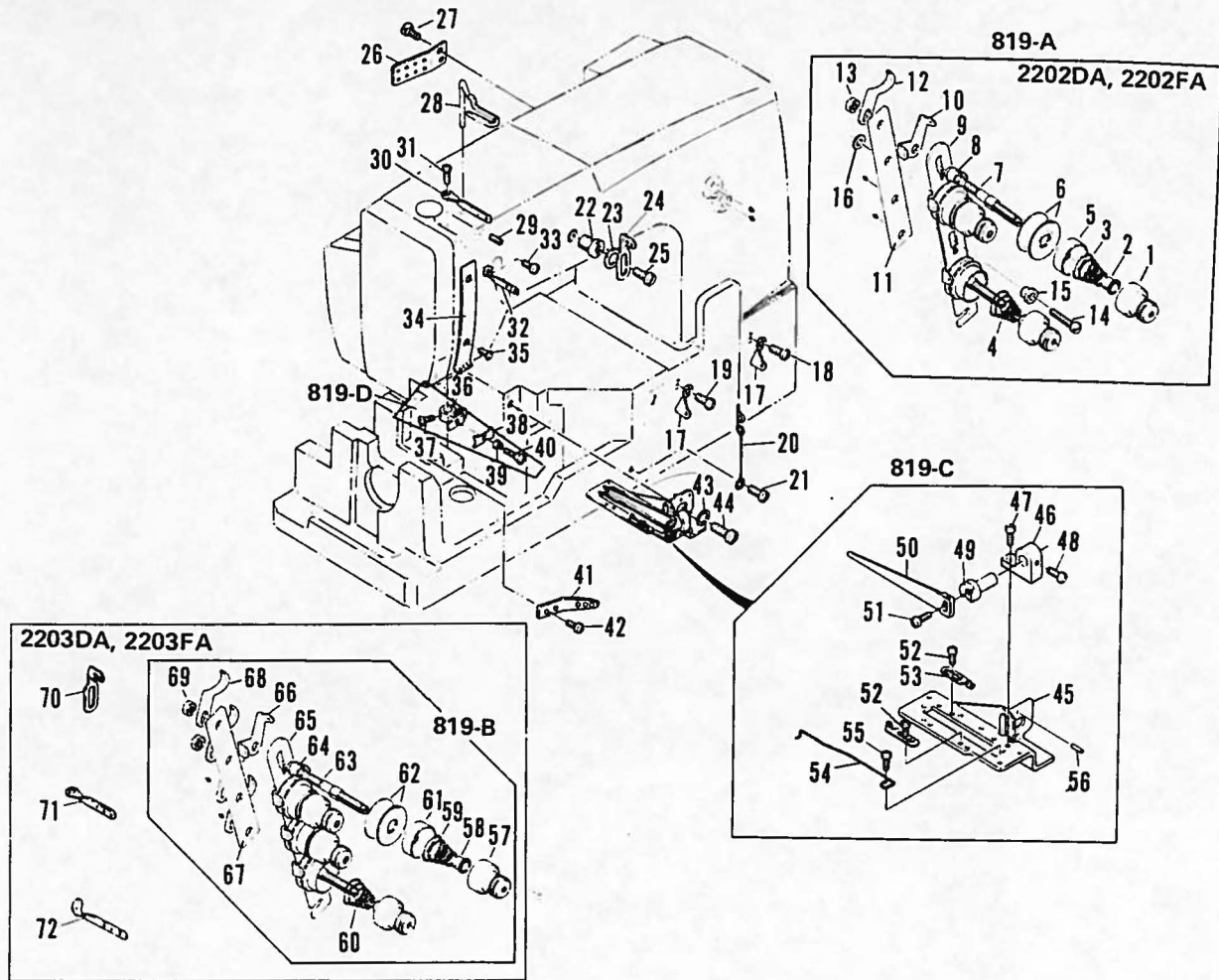


| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|--------------------------------------|------|----------|----------|----------------------------------|------|
| ** 1 | 71-561 | Looper holder shaft | 1 | **26 | 84-572 | Screw | 2 |
| ** 2 | 75-371 | Washer | 1 | **27 | 86-412 | Nut (Left) | 1 |
| ** 3 | 75-139 | Looper holder shaft collar | 1 | **28 | 65-401 | Connecting bar | 1 |
| ** 4 | 71-454 | Screw | 1 | **29 | 86-411 | Nut... | 1 |
| ** 5 | 67-132 | Looper avoid lever | 1 | **30 | 65-902 | Connecting rod | 1 |
| ** 6 | 84-612 | Screw | 1 | **31 | 71-322 | Shaft | 1 |
| ** 7 | 84-366 | Screw | 1 | **32 | 93-201 | Snap ring | 2 |
| ** 8 | 84-761 | Screw | 2 | **33 | 79-601 | Plate spring | 1 |
| ** 9 | 75-371 | Washer | 1 | **34 | 71-201 | Pin | 1 |
| 10 | 19-305 | Looper rocker E | 1 | **35 | 63-821 | Connecting rod | 1 |
| **11 | 84-716 | Screw | 1 | **36 | 84-572 | Screw | 2 |
| **12 | 84-766 | Screw | 1 | 37 | 61-823 | Connecting ball | 1 |
| **13 | 86-502 | Nut | 1 | 38 | 75-401 | Washer | 1 |
| **14 | 71-901 | Looper rocker tapered pin | 1 | **39 | 67-221 | Looper driving lever A | 1 |
| **15 | 81-401 | Tapered pin bushing | 1 | 40 | 85-211 | Screw | 1 |
| **16 | 84-521 | Screw | 2 | 41 | 86-411 | Nut | 1 |
| **17 | 75-452 | Washer | 1 | 42 | 75-331 | Washer | 1 |
| **18 | 86-501 | Nut | 1 | 43 | 92-231 | Bearing | 1 |
| **19 | 84-361 | Screw | 1 | 44 | 75-327 | Washer | 1 |
| 20 | 19-314 | Looper holder D | 1 | **45 | 35-199 | Oil guide | 1 |
| **21 | 84-616 | Screw | 2 | **46 | 84-164 | Screw | 1 |
| **22 | 86-413 | Nut | 1 | **47 | 86-314 | Nut | 1 |
| 23 | 75-453 | Washer | 2 | 48 | | | |
| 24 | 61-823 | Connecting ball | 1 | 49 | | | |
| **25 | 63-812 | Connecting rod | 1 | 50 | | | |
| 818-A | 10-914 | Looper holder (D) ass'y | | | | | |
| 818-B | 60-372 | Connecting link ass'y | | | | | |
| 818-C | 60-373 | Driving connecting link ass'y | | | | | |

NOTE: Parts marked with ** are the same as those used in fundamental models (D-type or F-type).

(注) 参照番号に ** 印の付いた部品は基本機種(D-タイプまたはF-タイプ)と共通部品です。

19. DMM (Thread eyelet components) (糸道関係)

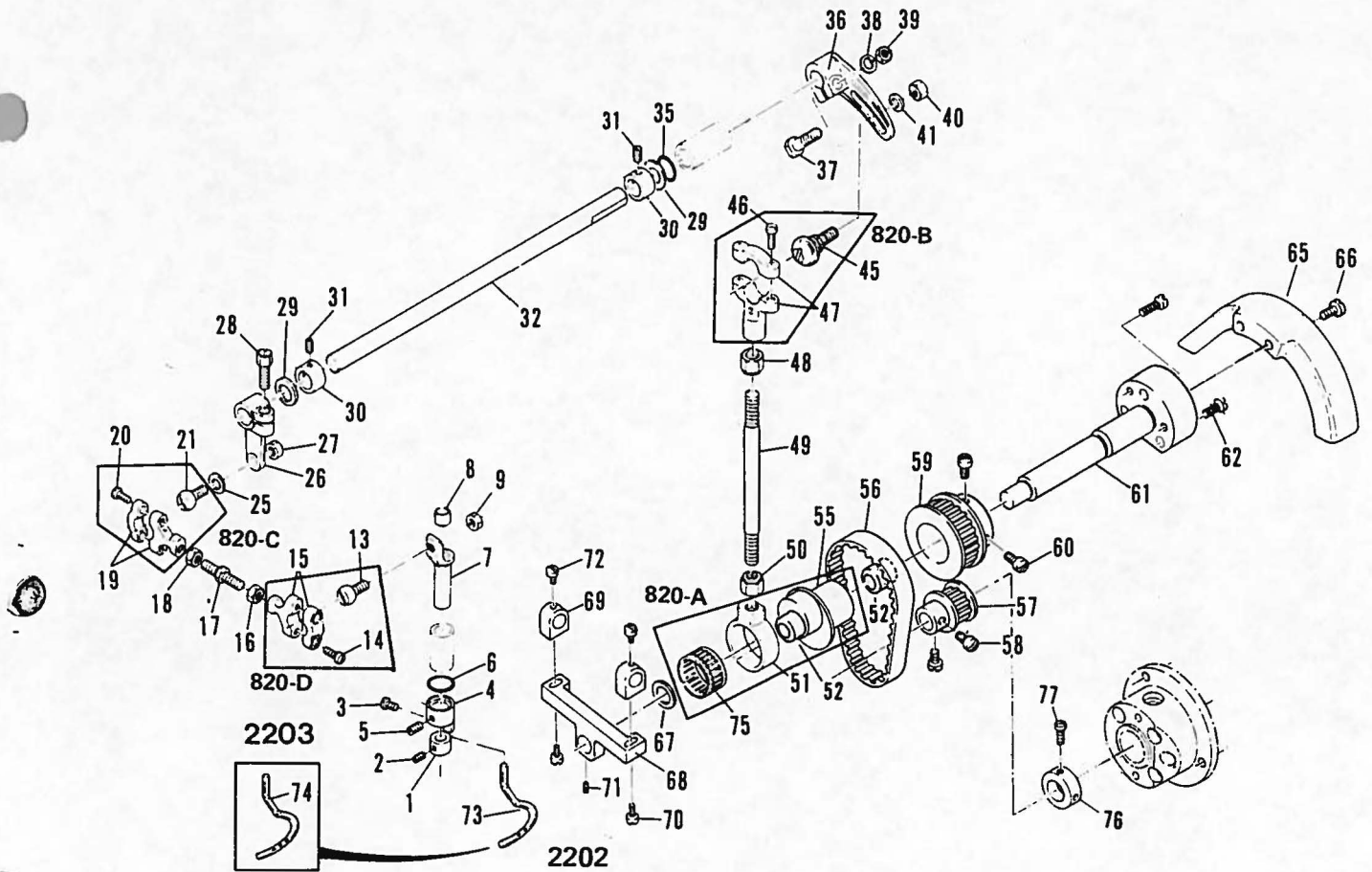


| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|------------------------------------|------|----------|----------|--------------------------------------|------|
| ** 1 | 41-101 | Tension regulating nut | 3 | **37 | 84-364 | Screw | 1 |
| ** 2 | 41-105 | Tension disc ratchet | 3 | **38 | 45-142 | Tension nipper | 1 |
| ** 3 | 41-701 | Needle thread tension spring | 2 | **39 | 41-721 | Tension nipper spring | 1 |
| ** 4 | 41-702 | Looper thread tension spring | 1 | **40 | 84-171 | Screw | 1 |
| ** 5 | 41-107 | Tension disc cover | 3 | 41 | 45-981 | Covering looper thread eyelet, front | 1 |
| ** 6 | 41-111 | Tension disc | 6 | **42 | 84-361 | Screw | 2 |
| ** 7 | 41-172 | Tension post | 3 | **43 | 75-456 | Washer | 1 |
| ** 8 | 41-131 | Tension post collar A | 3 | **44 | 84-571 | Screw | 1 |
| ** 9 | 41-113 | Tension post support | 1 | **45 | 43-331 | Cast-off support plate C | 1 |
| ** 10 | 41-115 | Tension post thread eyelet | 3 | **46 | 43-339 | Retainer support bracket | 1 |
| ** 11 | 41-121 | Tension post holder | 1 | **47 | 84-162 | Screw | 1 |
| ** 12 | 41-117 | Lead in thread eyelet | 3 | **48 | 84-161 | Screw | 1 |
| ** 13 | 86-411 | Nut | 2 | **49 | 43-112 | Pin for looper thread retainer | 1 |
| ** 14 | 84-764 | Screw | 1 | **50 | 43-333 | Looper thread retainer | 1 |
| ** 15 | 41-132 | Tension post collar B | 1 | **51 | 84-374 | Screw | 1 |
| ** 16 | 75-381 | Washer | 1 | **52 | 85-621 | Screw | 2 |
| ** 17 | 41-416 | Needle thread eyelet | 2 | **53 | 43-337 | Looper thread guide eyelet C | 2 |
| ** 18 | 84-374 | Screw | 1 | **54 | 43-335 | Looper thread cast-off pin | 1 |
| ** 19 | 84-566 | Screw | 1 | **55 | 84-163 | Screw | 1 |
| ** 20 | 47-202 | Looper thread guide eyelet B | 1 | **56 | 71-191 | Pin | 2 |
| ** 21 | 84-361 | Screw | 1 | **57 | 41-101 | Tension regulating nut | 4 |
| ** 22 | 85-531 | Screw | 1 | **58 | 41-105 | Tension disc ratchet | 4 |
| ** 23 | 75-456 | Washer | 1 | **59 | 41-701 | Needle thread tension spring | 3 |
| ** 24 | 45-101 | Needle thread eyelet 2 | 1 | **60 | 41-702 | Looper thread tension spring | 1 |
| ** 25 | 84-571 | Screw | 1 | **61 | 41-107 | Tension disc cover | 4 |
| 26 | 45-982 | Covering looper thread eyelet rear | 1 | **62 | 41-111 | Tension disc | 8 |
| ** 27 | 84-571 | Screw | 2 | **63 | 41-172 | Tension post | 4 |
| ** 28 | 45-225 | Needle thread take-up wire | 1 | **64 | 41-131 | Tension post collar A | 4 |
| ** 29 | 84-521 | Screw | 1 | **65 | 41-113 | Tension post support | 1 |
| ** 30 | 45-131 | Needle bar thread eyelet 2 | 1 | **66 | 41-115 | Tension post thread eyelet | 4 |
| ** 31 | 84-361 | Screw | 1 | **67 | 41-121 | Tension post holder | 1 |
| ** 32 | 45-121 | Needle lever thread eyelet 2 | 1 | **68 | 41-117 | Lead in thread eyelet | 4 |
| ** 33 | 84-361 | Screw | 1 | **69 | 86-411 | Nut | 2 |
| ** 34 | 45-151 | Needle thread guide | 1 | **70 | 45-102 | Needle thread eyelet 3 | 1 |
| ** 35 | 84-464 | Screw | 2 | **71 | 45-132 | Needle bar thread eyelet 3 | 1 |
| ** 36 | 41-303 | Tension nipper plate | 1 | **72 | 45-122 | Needle lever thread eyelet 3 | 1 |
| ** 819-A | 40-121 | Thread tension ass'y (2202) | | | | | |
| ** 819-B | 40-131 | Thread tension ass'y (2203) | | | | | |
| ** 819-C | 40-381 | Cast-off support plate ass'y | | | | | |
| 819-D | 40-571 | Tension nipper plate ass'y | | | | | |

NOTE: Parts marked with ** are the same as those used in fundamental models (D-type or F-type).

(注) 参照番号に ** 印の付いた部品は基本機種(D-タイプまたはF-タイプ)と共通部品です。

20. DMM (Upper shaft components) (上飾り機構)



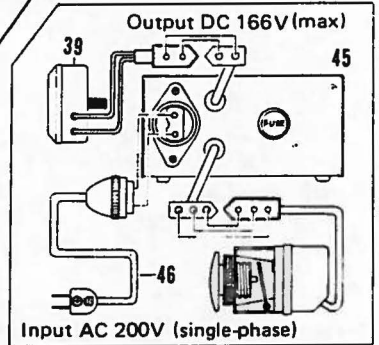
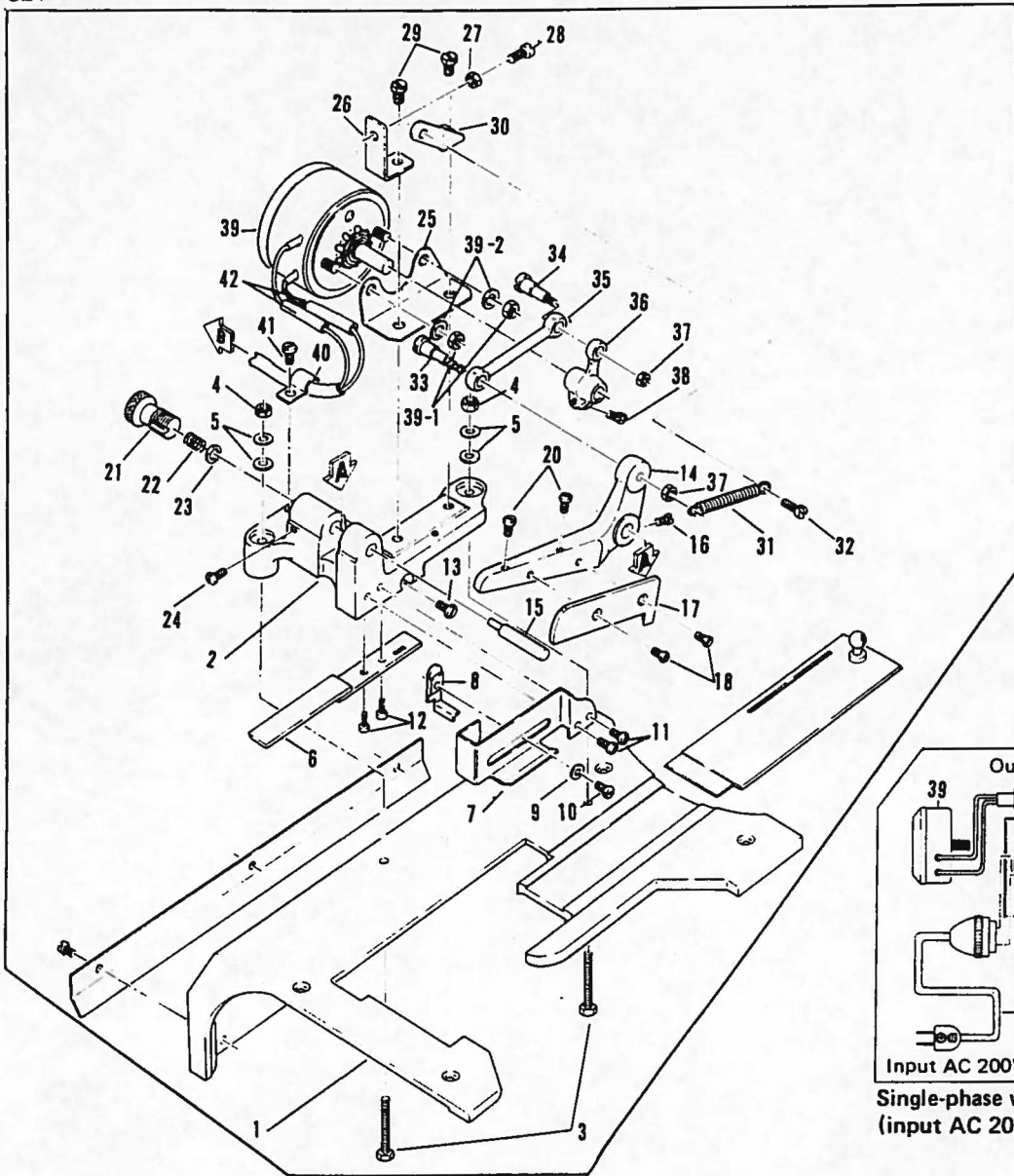
| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|---|------|----------|----------|-----------------------------------|------|
| ** 1 | 75-154 | Presser bar collar | 1 | ** 39 | 86-501 | Nut | 1 |
| ** 2 | 84-512 | Screw | 1 | ** 40 | 86-501 | Nut | 1 |
| ** 3 | 84-361 | Screw | 2 | ** 41 | 75-381 | Washer | 1 |
| ** 4 | 04-211 | Covering holder | 1 | 42 | | | |
| ** 5 | 84-521 | Screw | 2 | 43 | | | |
| ** 6 | 23-200 | O-ring | 1 | 44 | | | |
| ** 7 | 04-206 | Covering base | 1 | ** 45 | 61-714 | Connecting rod | 1 |
| ** 8 | 94-231 | ø8.1 shaft seal | 1 | ** 46 | 84-567 | Screw | 2 |
| ** 9 | 86-413 | Nut | 1 | ** 47 | 63-711 | Connecting ball joint small | 1 |
| 10 | | | | ** 48 | 86-742 | Nut, left | 1 |
| 11 | | | | 49 | 65-303 | Connecting bar | 1 |
| 12 | | | | ** 50 | 86-741 | Nut | 1 |
| ** 13 | 61-806 | Connecting rod | 1 | ** 51 | 63-201 | Upper shaft connecting link | 1 |
| ** 14 | 84-572 | Screw | 2 | ** 52 | 81-101 | Bushing | 2 |
| ** 15 | 63-816 | Covering thread ball joint | 1 | 53 | | | |
| ** 16 | 86-411 | Nut | 1 | 54 | | | |
| ** 17 | 65-402 | Connecting bar S | 1 | 55 | 61-221 | Covering looper driving eccentric | 1 |
| ** 18 | 86-412 | Nut | 1 | 56 | 58-112 | Timing belt | 1 |
| ** 19 | 63-818 | Connecting ball joint | 1 | 57 | 69-567 | Timing pulley S | 1 |
| ** 20 | 84-572 | Screw | 2 | 58 | 84-766 | Screw | 2 |
| ** 21 | 61-823 | Connecting rod | 1 | 59 | 69-581 | Timing pulley L | 1 |
| 22 | | | | 60 | 84-762 | Screw | 2 |
| 23 | | | | 61 | 71-701 | Timing pulley stud shaft | 1 |
| 24 | | | | 62 | 84-764 | Screw | 3 |
| ** 25 | 75-453 | Washer | 1 | 63 | | | |
| ** 26 | 67-251 | Covering lever | 1 | 64 | | | |
| ** 27 | 86-411 | Nut | 1 | 65 | 21-405 | Pulley cover | 1 |
| ** 28 | 85-211 | Screw | 1 | 66 | 84-566 | Screw | 1 |
| ** 29 | 75-332 | Washer | 2 | 67 | 75-161 | Washer | 1 |
| ** 30 | 75-113 | Collar | 2 | 68 | 69-601 | Bracket | 1 |
| ** 31 | 84-718 | Screw | 4 | 69 | 69-602 | Bracket | 2 |
| ** 32 | 71-692 | Upper shaft | 1 | 70 | 84-566 | Screw | 2 |
| 33 | | | | 71 | 85-112 | Screw | 1 |
| 34 | | | | 72 | 84-564 | Screw | 2 |
| ** 35 | 23-200 | O-ring | 1 | 73 | 19-220 | Looper (2202) | 1 |
| ** 36 | 67-172 | Upper shaft lever | 1 | 74 | 19-221 | Looper (2203) | 1 |
| ** 37 | 55-061 | Screw | 1 | ** 75 | 91-156 | Bearing | 1 |
| ** 38 | 75-381 | Washer | 1 | 76 | 75-112 | Washer | 1 |
| 820-A | 60-125 | Upper accessory driving eccentric ass'y | | 77 | 84-761 | Screw | 2 |
| ** 820-B | 60-374 | Upper looper driving ball joint ass'y | | | | | |
| ** 820-C | 60-382 | Connecting ball joint ass'y | | | | | |
| ** 820-D | 60-381 | Covering thread ball joint ass'y | | | | | |

NOTE: Parts marked with ** are the same as those used in fundamental models (D-type or F-type).

(注) 参照番号に ** 印の付いた部品は基本機種(D-タイプまたはF-タイプ)と共通部品です。

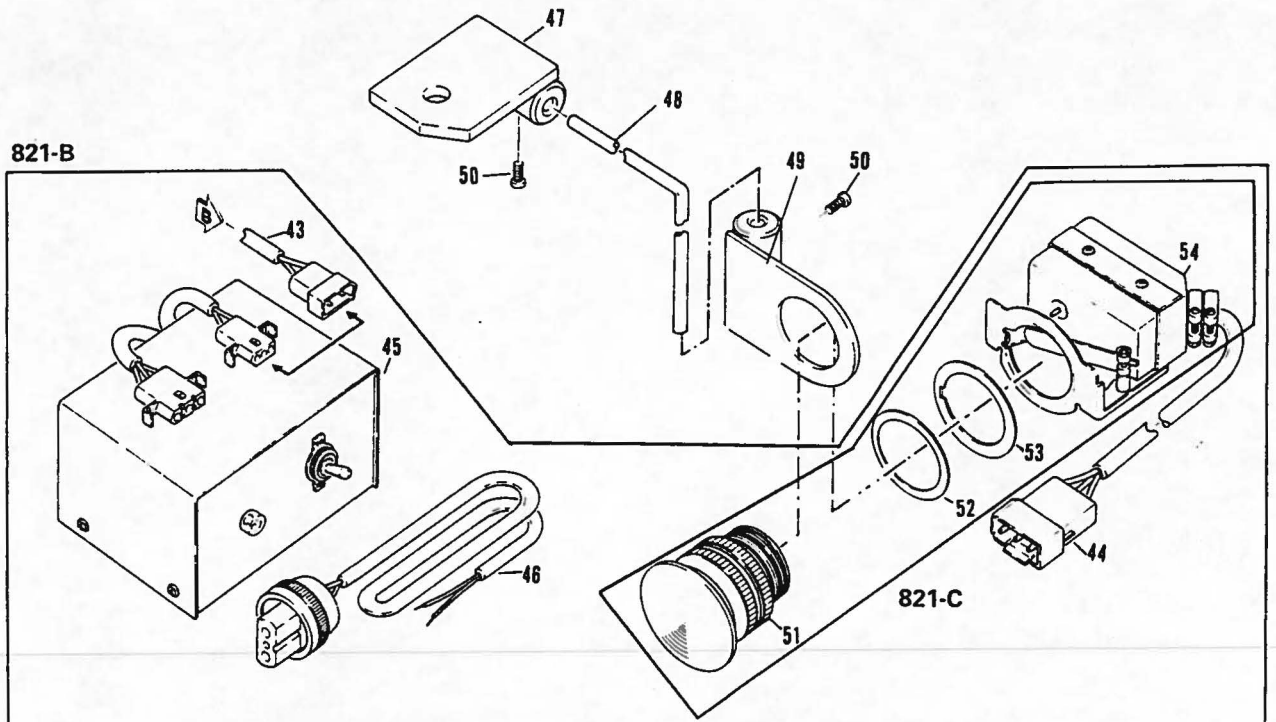
21. Rear cutter (MC-10) (後カッター装置)

821-A



Single-phase wiring diagram (input AC 200V)

821-B

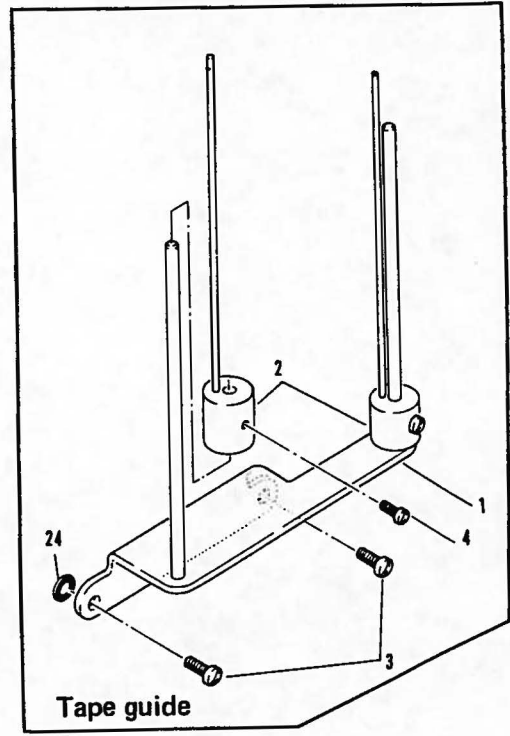
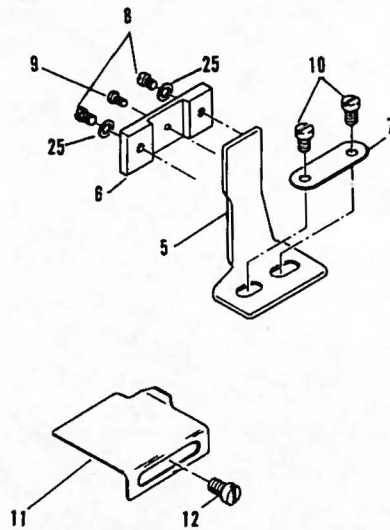


821-C

| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|----------------------------|------|----------|----------|------------------------------------|-------|
| 1 | 21-508 | Upper cloth plate (MC-10) | 1 | 30 | 08-115 | Mounting bracket for spring | 1 |
| 2 | 08-102 | Rear cutter base | 1 | 31 | 79-146 | Spring | 1 |
| 3 | 84-813 | Screw | 2 | 32 | 84-564 | Screw | 1 |
| 4 | 86-411 | Nut | 2 | 33 | 84-784 | Screw B | 1 |
| 5 | 75-381 | Washer | 4 | 34 | 84-782 | Screw A | 1 |
| 6 | 08-105 | Rear cutter, lower scalpel | 1 | 35 | 66-506 | Connecting crank | 1 |
| 7 | 08-109 | Rear cutter safety cover | 1 | 36 | 67-151 | Lever | 1 |
| 8 | 08-110 | Rear cutter guide plate | 1 | 37 | 86-411 | Nut | 2 |
| 9 | 75-455 | Washer | 1 | 38 | 84-612 | Screw | 1 |
| 10 | 84-374 | Screw | 1 | 39 | 08-101 | Rotary solenoid | 1 |
| 11 | 84-374 | Screw | 2 | 39-1 | | Nut | 2 |
| 12 | 84-564 | Screw | 2 | 39-2 | | Washer | 2 |
| 13 | 84-564 | Screw | 1 | 40 | 08-107 | Cord support | 1 |
| 14 | 08-103 | Scalpel bracket arm | 1 | 41 | 84-374 | Screw | 1 |
| 15 | 71-551 | Scalpel bracket shaft | 1 | 42 | | Vinyl pipe | 2 |
| 16 | 84-366 | Screw | 1 | 43 | 08-122 | Power cord A (solenoid side) | 1 set |
| 17 | 08-104 | Rear cutter upper scalpel | 1 | 44 | 08-124 | Switch cord | 1 set |
| 18 | 84-661 | Screw | 2 | 45 | 08-126 | Control box (AC 200V x DC 100V) | 1 set |
| 19 | | | | 46 | 08-123 | Power cord B (power side) | 1 set |
| 20 | 84-374 | Screw | 2 | 47 | 08-112 | Switch bracket | 1 |
| 21 | 87-521 | Screw | 1 | 48 | 08-113 | Switch mounting rod | 1 |
| 22 | 79-142 | Spring | 1 | 49 | 08-114 | Switch mounting bracket | 1 |
| 23 | 75-452 | Washer | 1 | 50 | 84-764 | Screw | 2 |
| 24 | 84-362 | Screw | 1 | 51 | | Push button | 1 |
| 25 | 08-108 | Solenoid bracket | 1 | 52 | | Washer | 1 |
| 26 | 08-116 | Upper scalpel stopper | 1 | 53 | | Packing | 1 |
| 27 | 86-311 | Nut | 1 | 54 | | Microswitch | 1 |
| 28 | 84-591 | Screw | 1 | | | | |
| 29 | 84-812 | Screw | 2 | | | | |
| 821-A | 00-810 | Rear cutter base ass'y | | | | | |
| 821-B | 08-121 | Control base ass'y | | | | | |
| 821-C | 08-125 | Microswitch ass'y | | | | | |

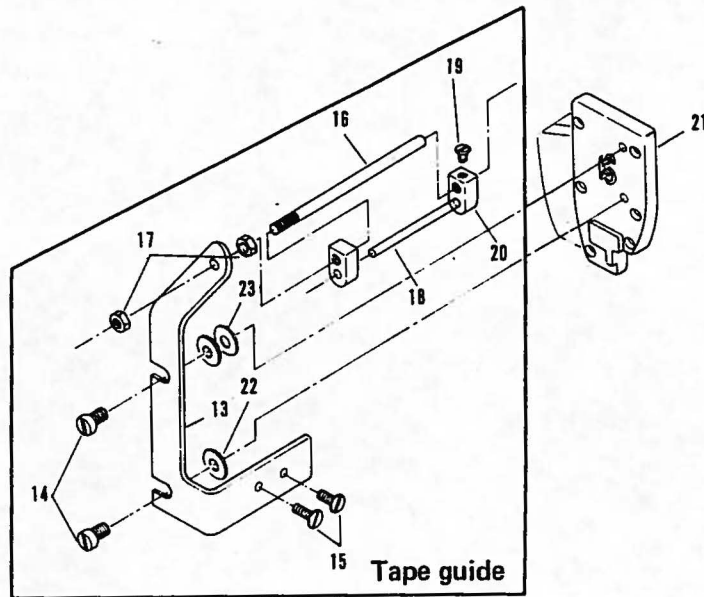
22. Attachments (アタッチメント)

DWK-1802F
 DWK-1803F
 DMM-2202FA
 DMM-2203FA



822-A

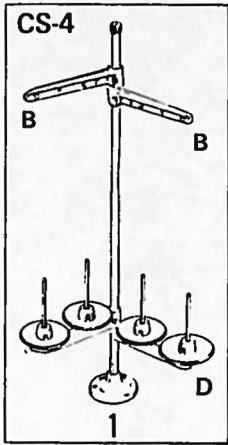
DWK-1802DE
 DWK-1803DE



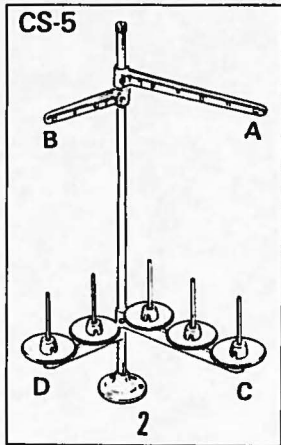
822-B

| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|----------------------------------|------|----------|----------|---------------------------|------|
| 1 | 26-702 | Tape guide bracket | 1 | 13 | 26-706 | Rubber puller guide plate | 1 |
| 2 | 26-703 | Tape guide adjuster | 2 | 14 | 84-566 | Screw | 2 |
| 3 | 84-566 | Screw | 2 | 15 | 84-363 | Screw | 2 |
| 4 | 84-571 | Screw | 2 | 16 | 26-751 | Rubber puller bar | 1 |
| 5 | 26-711 | Folder base | 1 | 17 | 86-411 | Nut | 2 |
| 6 | 26-713 | Folder base for F | 1 | 18 | 26-752 | Rubber puller guide bar | 2 |
| 7 | 26-712 | Folder base bracket | 1 | 19 | 84-162 | Screw | 2 |
| 8 | 84-566 | Screw | 2 | 20 | 26-753 | Rubber puller fittings | 2 |
| 9 | 84-571 | Screw | 1 | 21 | 21-319 | Head cover | 1 |
| 10 | 85-181 | Screw | 2 | 22 | 75-456 | Washer | 1 |
| 11 | 26-761 | Plate | 1 | 23 | 75-456 | Washer | 2 |
| 12 | 84-361 | Screw | 1 | 24 | 23-187 | Cushion rubber | 2 |
| 822-A | 20-670 | Tape guide ass'y F Type | | 25 | 75-455 | Washer | 2 |
| 822-B | 20-675 | Rubber puller guide plate E Type | | | | | |

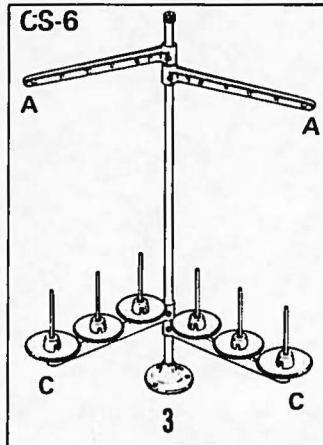
23. Thread stands (糸立て)



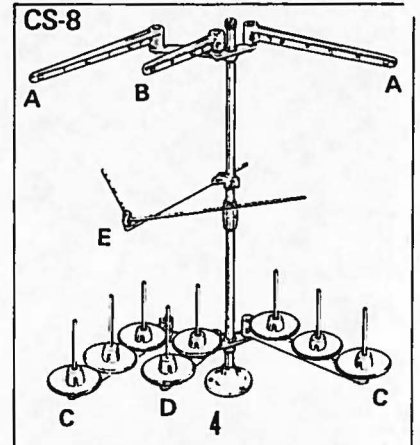
DWK-1802



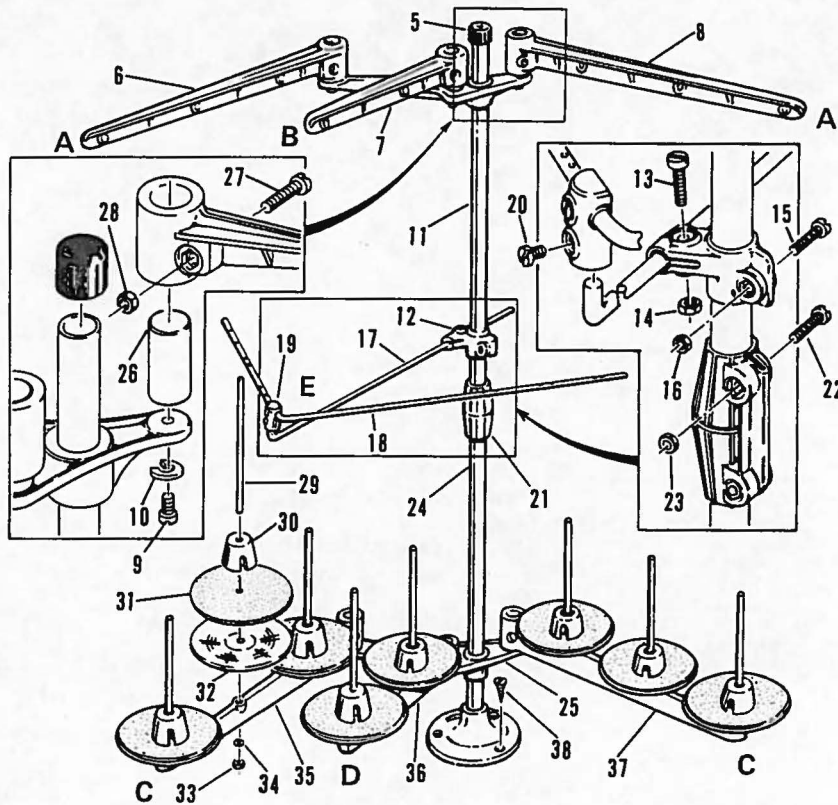
DWK-1803
DWK-1842
DMM-2202



DWK-1804

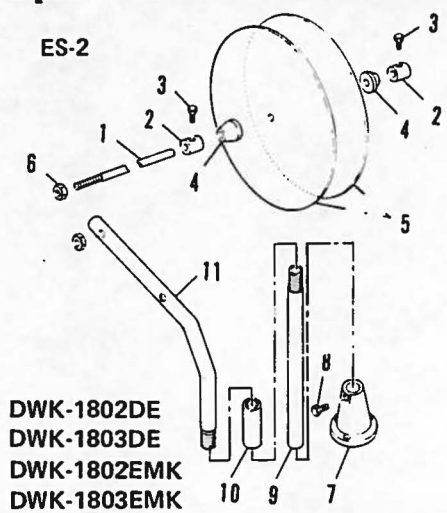


DMM-2203

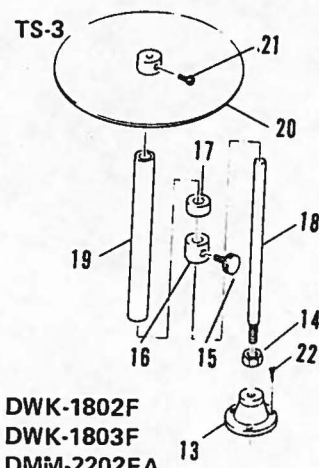


| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|-----------------------------|--------|----------|----------|-------------------------|------|
| 1 | 42-004 | Thread stand (4) CS-4 | .1 set | 21 | | Joint | 1 |
| 2 | 42-005 | Thread stand (5) CS-5 | .1 set | 22 | | Screw | 2 |
| 3 | 42-006 | Thread stand (6) CS-6 | .1 set | 23 | | Nut | 2 |
| 4 | 42-008 | Thread stand (8) CS-8 | .1 set | 24 | 42-112 | Bar (low) | 1 |
| 5 | 42-120 | Cap | 1 | 25 | | Base | 2 |
| 6 | 42-116 | Thread guide bracket (3) | | 26 | | Mounting bracket | 6 |
| 7 | | Thread guide bracket (2) | | 27 | | Screw | |
| 8 | | Thread guide bracket (3) | | 28 | | Nut | |
| 9 | | Screw | 6 | 29 | | Spool pin | |
| 10 | | Washer | 6 | 30 | | Spool pin retaining fin | |
| 11 | 42-113 | Bar (upper) | 1 | 31 | 42-119 | Spool mat | |
| 12 | | Shank | 1 | 32 | 42-123 | Spool tray | |
| 13 | | Screw | 1 | 33 | | Nut | |
| 14 | | Nut | 1 | 34 | | Washer | |
| 15 | | Screw | 1 | 35 | 42-115 | Spool pin bracket (3) | |
| 16 | | Nut | 1 | 36 | | Spool pin bracket (2) | |
| 17 | | Thread eyelet guide arm bar | 1 | 37 | 42-115 | Spool pin bracket (3) | |
| 18 | | Thread eyelet guide | 1 | 38 | 42-122 | Screw | 3 |
| 19 | | Joint | 1 | 39 | | | |
| 20 | | Screw | 2 | 40 | | | |

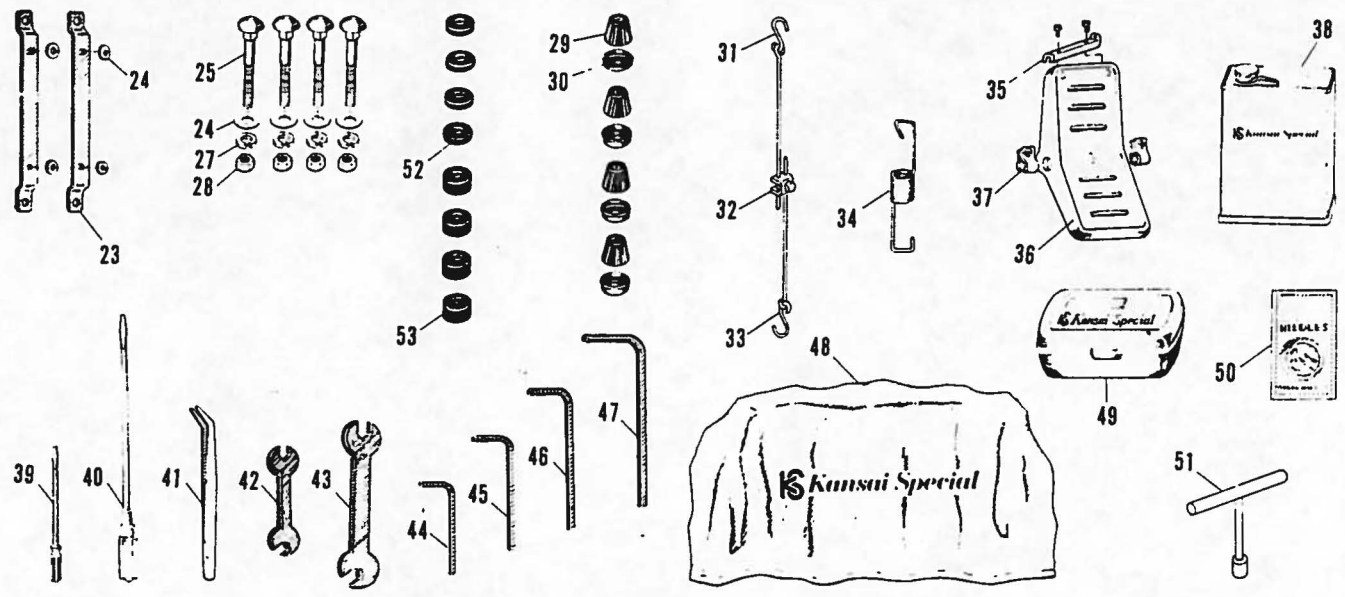
24. Tape stands•accessories (テープ立て・アクセサリ)



DWK-1802DE
DWK-1803DE
DWK-1802EMK
DWK-1803EMK

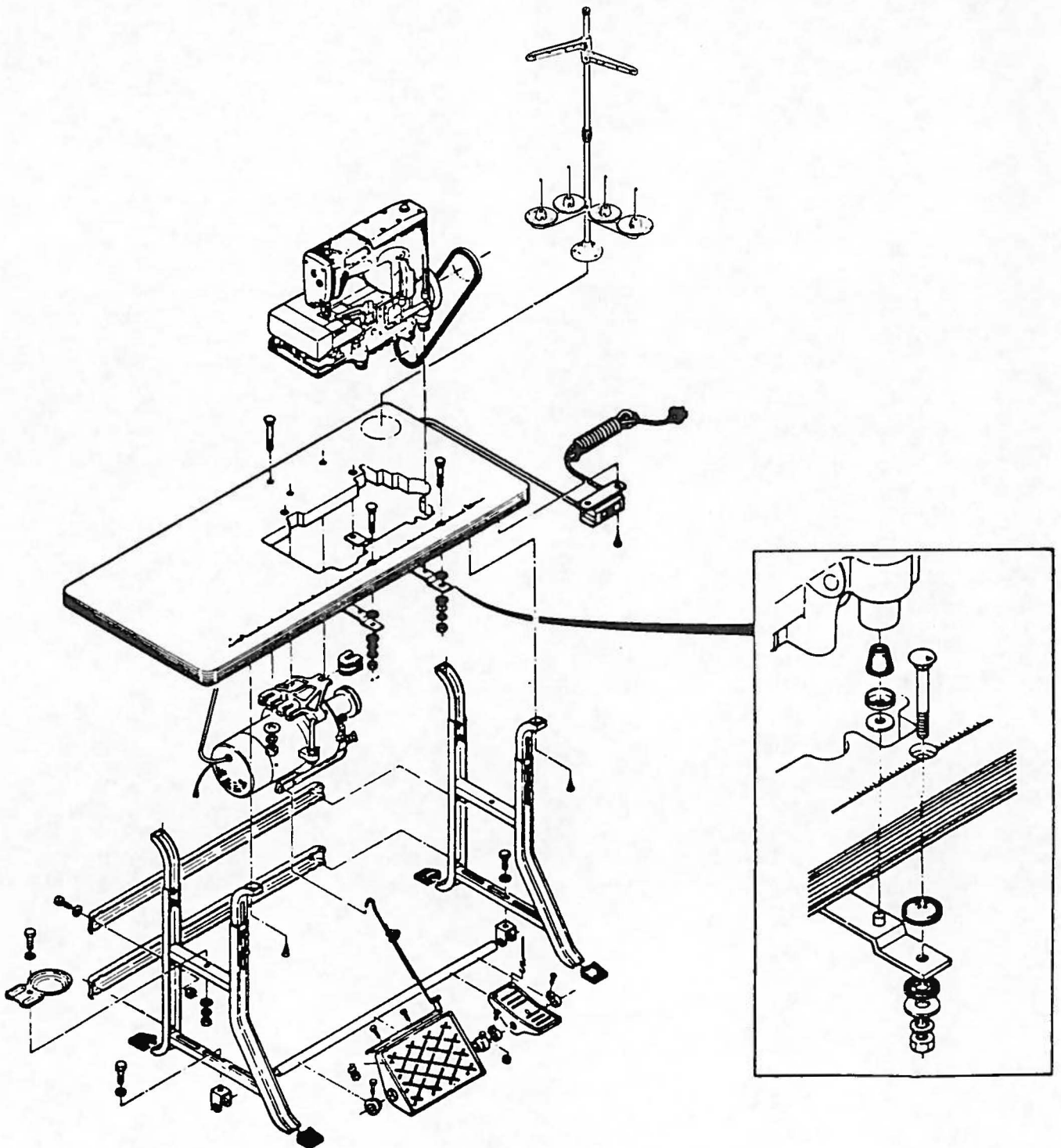


DWK-1802F
DWK-1803F
DMM-2202FA
DMM-2203FA



| Ref. No. | Part No. | Part Name | Q'ty | Ref. No. | Part No. | Part Name | Q'ty |
|----------|----------|-----------------------|------|----------|----------|--|------|
| 1 | 26-866 | Tape reel post | 1 | 27 | 75-529 | Spring Washer | 4 |
| 2 | 26-869 | Stop collar | 2 | 28 | 88-176 | Nut | 4 |
| 3 | 87-156 | Hex. bolt | 2 | 29 | 31-161 | Cushion rubber | 4 |
| 4 | 26-868 | Collar | 2 | 30 | 39-104 | Disc | 4 |
| 5 | 26-867 | Tape reel disc | 2 | 31 | 77-006 | Tie-rod (upper) | 1 |
| 6 | 88-176 | Nut | 2 | 32 | 77-005 | Joint (with screw) | 1 |
| 7 | 26-876 | Base | 1 | 33 | 77-007 | Tie-rod (lower) | 1 |
| 8 | 87-161 | Hex. bolt | 2 | 34 | 77-003 | Spring | 1 |
| 9 | 26-877 | Post A | 2 | 35 | 77-004 | Coupling | 1 |
| 10 | 26-879 | Connecting pipe | 1 | 36 | 77-001 | Pedal | 1 |
| 11 | 26-878 | Post B | 1 | 37 | 77-002 | Pedal stopper | 2 |
| 12 | | | | 38 | 28-611 | Oil TELLESSO 33 | 1 |
| 13 | 26-856 | Base | 1 | 39 | 28-451 | Screwdriver (small) | 1 |
| 14 | 88-156 | Nut | 1 | 40 | 28-452 | Screwdriver (large) | 1 |
| 15 | 87-149 | Screw | 1 | 41 | 28-011 | Tweezers | 1 |
| 16 | 26-860 | Stop collar | 1 | 42 | 28-421 | Spanner (small) | 1 |
| 17 | 26-861 | Cushion | 1 | 43 | 28-422 | Spanner (large) | 1 |
| 18 | 26-857 | Post B | 1 | 44 | 28-311 | Wrench A | 1 |
| 19 | 26-859 | Guide pipe | 1 | 45 | 28-312 | Wrench B | 1 |
| 20 | 26-858 | φ 200 tape reel disc | 1 | 46 | 28-313 | Wrench C | 1 |
| 21 | 87-150 | Screw | 1 | 47 | 28-314 | Wrench D | 1 |
| 22 | | Wood screw | 3 | 48 | 28-021 | Machine cover | 1 |
| 23 | 25-141 | Machine mount bracket | 2 | 49 | 28-001 | Accessory box | 1 |
| 24 | 23-324 | Felt | 4 | 50 | 13 | Needle DV43, 62x43 SY3516 SMx1014A (1804D) | 1 |
| 25 | 80-751 | Screw | 4 | 51 | 28-464 | Wrench T | 1 |
| 26 | 75-451 | Washer M8 | 4 | 52 | 23-121 | Rubber A | 4 |
| | | | | 53 | 23-122 | Rubber B | 4 |

25. Table stand installation diagram (テーブルスタンド据付図)



26. Index (索引)

| Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| 01-301 | 1 | 20 | 08-102 | 1 | 28 | 14-858 | 1 | 16 | 17-845-2 | 1 | 14 |
| -303 | 1 | 20 | -103 | 1 | 28 | -864 | 1 | 14 | -846 | 1 | 16 |
| -304 | 1 | 20 | -104 | 1 | 28 | -865 | 1 | 14 | -846-2 | 2 | 16 |
| -305 | 1 | 20 | -105 | 1 | 28 | -866 | 1 | 16 | -848 | 1 | 16 |
| -306 | 1 | 20 | -107 | 1 | 28 | -868 | 1 | 16 | -848-2 | 1 | 16 |
| -307 | 1 | 20 | -108 | 1 | 28 | -893 | 1 | 14 | -854 | 1 | 14 |
| -309 | 4 | 20 | -109 | 1 | 28 | 15-723 | 1 | 14 | -854-1 | 1 | 14 |
| -311 | 2 | 20 | -110 | 1 | 28 | -726 | 1 | 16 | -855 | 1 | 14 |
| -312 | 2 | 20 | -112 | 1 | 28 | -728 | 1 | 16 | -855-2 | 1 | 14 |
| -314 | 1 | 20 | -113 | 1 | 28 | -753 | 1 | 14 | -856 | 1 | 16 |
| -316 | 1 | 20 | -114 | 1 | 28 | -756 | 1 | 16 | -856-2 | 1 | 16 |
| -317 | 1 | 20 | -115 | 1 | 28 | -815 | 1 | 14 | -856-2 | 1 | 16 |
| -318 | 1 | 20 | -116 | 1 | 28 | 17-512-3 | 1 | 14 | -858 | 1 | 16 |
| -321 | 1 | 20 | -122 | 1 | 28 | -726-1 | 1 | 16 | -858-2 | 1 | 16 |
| -322 | 1 | 20 | -123 | 1 | 28 | -726-3 | 1 | 16 | -864 | 1 | 14 |
| -324 | 1 | 20 | -124 | 1 | 28 | -726-4 | 1 | 16 | -864-1 | 1 | 14 |
| -325 | 1 | 20 | -126 | 1 | 28 | -726-5 | 1 | 16 | -865 | 1 | 14 |
| -326 | 2 | 20 | | | | -726-7 | 1 | 16 | -865-2 | 1 | 14 |
| -331 | 1 | 20 | 11-704 | 1 | 14 | -726-7 | 1 | 16 | -866 | 1 | 16 |
| -336 | 1 | 20 | -722 | 1 | 14 | -728-4 Δ | 1 | 16 | -866-2 | 1 | 16 |
| -337 | 1 | 20 | -722 | 1 | 16 | -728-6 | 1 | 16 | -868 | 1 | 16 |
| -340 | 1 | 20 | -723 | 1 | 14 | -728-6 Δ | 1 | 16 | -868-2 | 1 | 16 |
| -341 | 1 | 20 | -723 | 1 | 16 | -728-7 | 1 | 16 | -875 | 1 | 14 |
| -342 | 1 | 20 | -724 | 1 | 14 | -728-8 | 1 | 16 | -875-2 | 1 | 14 |
| -343 | 1 | 20 | -724 | 1 | 16 | -728-9 | 1 | 16 | -884 | 1 | 14 |
| -344 | 1 | 20 | -725 | 1 | 14 | -728-10 | 1 | 16 | -884-1 | 1 | 14 |
| -346 | 1 | 20 | -725 | 1 | 16 | -728-11 | 1 | 16 | -885 | 1 | 14 |
| -348 | 1 | 20 | -726 | 1 | 14 | -736-3 | 1 | 16 | -885-2 | 1 | 14 |
| -349 | 1 | 20 | -726 | 1 | 16 | -746-3 | 1 | 16 | -886 | 1 | 16 |
| -350 | 1 | 20 | -735 | 1 | 14 | -756-3 | 1 | 16 | -886-2 | 1 | 16 |
| -351 | 2 | 20 | -735 | 1 | 16 | -766-3 | 1 | 16 | -888 | 1 | 16 |
| -353 | 1 | 20 | -736 | 1 | 14 | -766-3 | 1 | 16 | -888-2 | 1 | 16 |
| 04-206 | 1 | 12 | -736 | 1 | 16 | -784-2 | 1 | 14 | -893 | 1 | 14 |
| -206 | 1 | 26 | -875 | 1 | 14 | -784-2 | 1 | 14 | -893-1 | 1 | 14 |
| -211 | 1 | 12 | 12-702 | 1 | 14 | -784-3 | 1 | 14 | -894 | 1 | 14 |
| -211 | 1 | 26 | -702 | 1 | 16 | -784-4 | 1 | 14 | -894-1 | 1 | 14 |
| 07-101 | 1 | 18 | -893 | 1 | 14 | -784-5 | 1 | 14 | -895 | 1 | 14 |
| -102 | 1 | 18 | 13- | 1 | 31 | -785-1 | 1 | 14 | -895-2 | 1 | 14 |
| -103 | 1 | 18 | 14-031 | 1 | 2 | -785-1 | 1 | 14 | -896 | 1 | 16 |
| -104 | 1 | 18 | -075 | 1 | 18 | -785-3 | 1 | 14 | -896-2 | 1 | 16 |
| -105 | 1 | 18 | -082 | 1 | 20 | -785-4 | 1 | 14 | -898 | 1 | 16 |
| -106 | 1 | 18 | -724 | 1 | 14 | -785-5 | 1 | 14 | -898-2 | 1 | 16 |
| -108 | 1 | 18 | -725 | 1 | 14 | -785-6 | 1 | 14 | 18-707 | 1 | 14 |
| -112 | 1 | 18 | -726 | 1 | 16 | -786-1 | 1 | 16 | -707 | 1 | 16 |
| -114 | 1 | 18 | -728 | 1 | 16 | -786-4 | 1 | 16 | -708 | 1 | 14 |
| -115 | 1 | 18 | -734 | 1 | 14 | -786-5 | 1 | 16 | -708 | 1 | 16 |
| -116 | 1 | 16 | -735 | 1 | 14 | -824 | 1 | 14 | -709 | 1 | 14 |
| -117 | 1 | 18 | -736 | 1 | 16 | -824-1 | 1 | 14 | -709 | 1 | 11 |
| -118 | 1 | 18 | -738 | 1 | 16 | -825 | 1 | 14 | -721 | 1 | 10 |
| -120 | 1 | 18 | -744 | 1 | 14 | -825-2 | 1 | 14 | -722 | 1 | 10 |
| -121 | 1 | 20 | -745 | 1 | 14 | -826 | 1 | 16 | -875 | 1 | 14 |
| -123 | 1 | 20 | -746 | 1 | 16 | -826-2 | 1 | 16 | 19-303 | 1 | 10 |
| -124 | 1 | 20 | -748 | 1 | 16 | -828 | 1 | 16 | -305 | 1 | 24 |
| -125 | 1 | 20 | -754 | 1 | 14 | -828-2 | 1 | 16 | -220 | 1 | 26 |
| -128 | 1 | 20 | -755 | 1 | 14 | -834 | 1 | 14 | -221 | 1 | 26 |
| -130 | 1 | 20 | -756 | 1 | 16 | -834-1 | 1 | 14 | -314 | 1 | 24 |
| -131 | 1 | 20 | -758 | 1 | 16 | -835 | 1 | 14 | -315 | 1 | 10 |
| -132 | 1 | 18 | -764 | 1 | 14 | -835-2 | 1 | 14 | -518 | 1 | 14 |
| -143 | 1 | 20 | -765 | 1 | 14 | -836 | 1 | 16 | -713 | 1 | 14 |
| -144 | 1 | 20 | -766 | 1 | 16 | -836-2 | 1 | 16 | -713 | 1 | 16 |
| -294 | 1 | 18 | -768 | 1 | 16 | -838 | 1 | 16 | -806 | 1 | 12 |
| -331 | 1 | 20 | -815 | 1 | 14 | -838-2 | 1 | 16 | -875 | 1 | 14 |
| -333 | 1 | 20 | -854 | 1 | 14 | -844 | 1 | 14 | | | |
| -334 | 1 | 20 | -855 | 1 | 14 | -844-1 | 1 | 14 | 21-101 | 1 | 2 |
| 08-101 | 1 | 28 | -856 | 1 | 16 | -845 | 1 | 14 | -111 | 1 | 2 |

26. Index (索引)

| Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| 21-113 | 1 | 2 | 23-372 | 1 | 5 | 31-403 | 1 | 6 | 41-113 | 1 | 4 |
| -122 | 1 | 2 | -383 | 1 | 5 | -404 | 1 | 6 | -113 | 1 | 4 |
| -131 | 1 | 2 | -393 | 1 | 6 | -405 | 1 | 6 | -113 | 1 | 4 |
| -208 | 1 | 2 | -393 | 1 | 23 | -406 | 1 | 6 | -113 | 1 | 21 |
| -301 | 1 | 2 | -393 | 1 | 9 | -407 | 1 | 6 | -113 | 1 | 25 |
| -317 | 1 | 2 | -402 | 1 | 2 | -409 | 1 | 6 | -113 | 1 | 25 |
| -319 | 1 | 29 | 25-101 | 1 | 2 | -410 | 1 | 8 | -115 | 3 | 4 |
| -329 | 1 | 20 | -101 | 1 | 2 | -410 | 1 | 22 | -115 | 4 | 4 |
| -402 | 1 | 2 | -102 | 1 | 2 | 35-111 | 1 | 5 | -115 | 5 | 4 |
| -405 | 1 | 26 | -102 | 1 | 2 | -121 | 1 | 6 | -115 | 1 | 12 |
| -441 | 1 | 2 | -141 | 2 | 31 | -199 | 1 | 10 | -115 | 4 | 21 |
| -501 | 1 | 2 | 26-702 | 1 | 29 | -199 | 1 | 24 | -115 | 3 | 25 |
| -504 | 1 | 18 | -703 | 2 | 29 | -201 | 1 | 6 | -115 | 4 | 25 |
| -508 | 1 | 28 | -706 | 1 | 29 | -203 | 2 | 6 | -117 | 3 | 4 |
| -513 | 1 | 2 | -711 | 1 | 29 | -207 | 1 | 6 | -117 | 4 | 4 |
| -521 | 1 | 2 | -712 | 1 | 18 | -246 | 1 | 6 | -117 | 5 | 4 |
| -701 | 1 | 2 | -712 | 1 | 29 | -257 | 1 | 6 | -117 | 1 | 12 |
| -711 | 1 | 2 | -713 | 1 | 18 | -302 | 1 | 6 | -117 | 4 | 21 |
| -841 | 1 | 2 | -713 | 1 | 29 | -303 | 3 | 6 | -117 | 3 | 25 |
| -851 | 1 | 2 | -751 | 1 | 29 | -304 | 1 | 6 | -117 | 4 | 25 |
| -852 | 1 | 2 | -752 | 2 | 29 | -305 | 2 | 6 | -121 | 1 | 4 |
| -854 | 1 | 2 | -753 | 2 | 29 | -322 | 1 | 6 | -121 | 1 | 4 |
| 23-121 | 4 | 31 | -761 | 1 | 29 | 39-102 | 1 | 6 | -121 | 1 | 25 |
| -122 | 4 | 31 | -764 | 1 | 20 | -104 | 4 | 31 | -121 | 1 | 25 |
| -161 | 1 | 2 | -856 | 1 | 31 | -107 | 1 | 8 | -123 | 1 | 4 |
| -166 | 1 | 5 | -857 | 1 | 31 | -107 | 1 | 22 | -131 | 3 | 4 |
| -187 | 2 | 29 | -858 | 1 | 31 | -108 | 1 | 2 | -131 | 4 | 4 |
| -189 | 1 | 11 | -859 | 1 | 31 | -122 | 1 | 5 | -131 | 5 | 4 |
| -195 | 1 | 5 | -860 | 1 | 31 | -133 | 1 | 6 | -131 | 1 | 12 |
| -195 | 2 | 8 | -861 | 1 | 31 | -137 | 1 | 6 | -131 | 4 | 21 |
| -195 | 1 | 22 | -866 | 1 | 31 | -161 | 1 | 2 | -131 | 3 | 25 |
| -197 | 1 | 5 | -867 | 2 | 31 | -162 | 1 | 6 | -131 | 4 | 25 |
| -197 | 1 | 8 | -868 | 2 | 31 | -163 | 2 | 2 | -132 | 1 | 4 |
| -197 | 1 | 9 | -869 | 2 | 31 | -213 | 1 | 2 | -132 | 1 | 25 |
| -197 | 1 | 22 | -876 | 1 | 31 | -233 | 1 | 6 | -151 | 1 | 4 |
| -197 | 1 | 23 | -877 | 2 | 31 | -233 | 1 | 6 | -151 | 1 | 21 |
| -197 | 1 | 20 | -878 | 1 | 31 | 41-101 | 3 | 4 | -152 | 2 | 4 |
| -200 | 1 | 26 | -879 | 1 | 31 | -101 | 4 | 4 | -152 | 2 | 21 |
| -200 | 1 | 26 | 28-001 | 1 | 31 | -101 | 5 | 4 | -153 | 1 | 4 |
| -200 | 1 | 12 | -011 | 1 | 31 | -101 | 4 | 21 | -153 | 1 | 21 |
| -200 | 1 | 72 | -021 | 1 | 31 | -101 | 3 | 25 | -154 | 1 | 4 |
| -206 | 1 | 2 | -311 | 1 | 31 | -101 | 4 | 25 | -154 | 1 | 21 |
| -207 | 1 | 2 | -312 | 1 | 31 | -101 | 1 | 12 | -172 | 3 | 4 |
| -217 | 1 | 2 | -313 | 1 | 31 | -105 | 3 | 4 | -172 | 4 | 4 |
| -223 | 1 | 2 | -314 | 1 | 31 | -105 | 4 | 4 | -172 | 5 | 4 |
| -232 | 1 | 2 | -421 | 1 | 31 | -105 | 4 | 4 | -172 | 1 | 12 |
| -260 | 2 | 2 | -422 | 1 | 31 | -105 | 5 | 4 | -172 | 4 | 21 |
| -260 | 1 | 8 | -451 | 1 | 31 | -105 | 4 | 21 | -172 | 3 | 25 |
| -260 | 1 | 22 | -452 | 1 | 31 | -105 | 1 | 12 | -172 | 4 | 25 |
| -263 | 1 | 2 | -464 | 1 | 31 | -105 | 3 | 25 | -303 | 1 | 4 |
| -291 | 3 | 6 | -611 | 1 | 31 | -105 | 4 | 25 | -303 | 1 | 25 |
| -298 | 1 | 5 | 31-161 | 4 | 31 | -107 | 3 | 4 | -416 | 2 | 4 |
| -299 | 1 | 2 | -203 | 1 | 2 | -107 | 4 | 4 | -416 | 2 | 25 |
| -300 | 1 | 6 | -305 | 1 | 6 | -107 | 5 | 4 | -701 | 2 | 4 |
| -301 | 1 | 2 | -306 | 1 | 6 | -107 | 1 | 12 | -701 | 3 | 4 |
| -302 | 2 | 2 | -307 | 1 | 6 | -107 | 4 | 21 | -701 | 4 | 4 |
| -306 | 4 | 6 | -310 | 1 | 6 | -107 | 3 | 25 | -701 | 1 | 12 |
| -324 | 4 | 31 | -314 | 5 | 6 | -107 | 4 | 25 | -701 | 2 | 21 |
| -341 | 2 | 8 | -314 | 2 | 6 | -111 | 6 | 4 | -701 | 2 | 25 |
| -341 | 2 | 9 | -341 | 2 | 6 | -111 | 8 | 4 | -701 | 3 | 25 |
| -341 | 2 | 22 | -341 | 2 | 6 | -111 | 10 | 4 | -702 | 2 | 2 |
| -341 | 2 | 23 | -341 | 2 | 6 | -111 | 2 | 12 | -702 | 1 | 4 |
| -341 | 2 | 23 | -364 | 1 | 6 | -111 | 8 | 21 | -702 | 1 | 4 |
| -341 | 1 | 23 | -401 | 1 | 6 | -111 | 6 | 25 | -702 | 1 | 4 |
| -368 | 1 | 6 | -402 | 1 | 6 | -111 | 8 | 25 | -702 | 1 | 25 |

26. Index (索引)

| Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| 41-702 | 1 | 25 | 45-151 | 1 | 4 | 61-713 | 1 | 8 | 67-225 | 1 | 10 |
| -721 | 1 | 4 | -151 | 1 | 21 | -713 | 1 | 22 | -251 | 1 | 12 |
| -721 | 1 | 4 | -151 | 1 | 25 | -714 | 1 | 12 | -251 | 1 | 26 |
| -721 | 1 | 21 | -151 | 1 | 25 | -714 | 1 | 26 | -311 | 1 | 23 |
| -721 | 1 | 21 | -163 | 1 | 4 | -722 | 1 | 8 | 69-105 | 1 | 8 |
| -721 | 1 | 21 | -225 | 1 | 4 | -722 | 1 | 22 | -105 | 1 | 22 |
| -721 | 1 | 25 | -225 | 1 | 21 | -806 | 1 | 12 | -106 | 1 | 20 |
| 42-004 | 1 | 30 | -225 | 1 | 25 | -806 | 1 | 20 | -121 | 1 | 8 |
| -005 | 1 | 30 | -232 | 1 | 14 | -806 | 1 | 26 | -121 | 1 | 22 |
| -006 | 1 | 30 | -232 | 1 | 16 | -823 | 1 | 10 | -203 | 1 | 22 |
| -008 | 1 | 30 | -232 | 1 | 16 | -823 | 1 | 10 | -208 | 1 | 8 |
| -112 | 1 | 30 | -701 | 1 | 21 | -823 | 1 | 12 | -241 | 1 | 12 |
| -113 | 1 | 30 | -911 | 1 | 12 | -823 | 1 | 24 | -305 | 1 | 8 |
| -115 | | 30 | -913 | 1 | 12 | -823 | 1 | 24 | -305 | 1 | 22 |
| -115 | | 30 | -913 | 1 | 12 | -823 | 1 | 26 | -567 | 1 | 26 |
| -116 | | 30 | -917 | 1 | 4 | -826 | 1 | 20 | -581 | 1 | 26 |
| -119 | | 30 | -917 | 1 | 21 | -841 | 1 | 18 | -601 | 1 | 26 |
| -120 | 1 | 30 | -921 | 1 | 4 | 63-201 | 1 | 12 | -602 | 2 | 26 |
| -122 | 3 | 30 | -921 | 1 | 21 | -201 | 1 | 26 | | | |
| -123 | | 30 | -922 | 1 | 4 | -211 | 1 | 18 | 71-191 | 2 | 4 |
| 43-105 | 1 | 21 | -922 | 1 | 21 | -213 | 1 | 20 | -191 | 2 | 21 |
| -112 | 1 | 4 | -981 | 1 | 25 | -232 | 2 | 9 | -191 | 2 | 25 |
| -112 | 1 | 21 | -982 | 1 | 25 | -232 | 2 | 23 | -201 | 1 | 24 |
| -112 | 1 | 25 | 47-101 | 1 | 21 | -331 | 1 | 8 | -216 | 1 | 10 |
| -331 | 1 | 4 | -202 | 1 | 4 | -331 | 1 | 22 | -251 | 2 | 2 |
| -331 | 1 | 21 | -202 | 1 | 21 | -351 | 1 | 23 | -301 | 1 | 2 |
| -331 | 1 | 25 | -202 | 1 | 25 | -352 | 1 | 9 | -306 | 1 | 20 |
| -333 | 1 | 4 | 49-133 | 1 | 9 | -511 | 1 | 22 | -306 | 2 | 20 |
| -333 | 1 | 21 | -133 | 1 | 23 | -512 | 1 | 8 | -306 | 4 | 18 |
| -333 | 1 | 25 | | | | -711 | 1 | 12 | -322 | 1 | 24 |
| -335 | 1 | 4 | 51-013 | 1 | 9 | -711 | 1 | 26 | -401 | 1 | 2 |
| -335 | 1 | 21 | -013 | 1 | 23 | -721 | 1 | 8 | -431 | 2 | 9 |
| -335 | 1 | 25 | -031 | 1 | 9 | -721 | 1 | 22 | -431 | 1 | 9 |
| -337 | 2 | 4 | -031 | 1 | 23 | -811 | 1 | 10 | -431 | 2 | 23 |
| -337 | 2 | 21 | -036 | 1 | 9 | -811 | 1 | 18 | -432 | 1 | 20 |
| -337 | 2 | 25 | -036 | 1 | 23 | -812 | 1 | 10 | -432 | 2 | 22 |
| -339 | 1 | 4 | -102 | 1 | 9 | -812 | 1 | 24 | -432 | 1 | 23 |
| -339 | 1 | 21 | -103 | 1 | 9 | -816 | 1 | 12 | -454 | 1 | 10 |
| -339 | 1 | 25 | -105 | 1 | 9 | -816 | 1 | 20 | -454 | 1 | 24 |
| 45-101 | 1 | 4 | -109 | 1 | 9 | -816 | 1 | 26 | -482 | 1 | 6 |
| -101 | 1 | 21 | -111 | 2 | 9 | -818 | 1 | 12 | -531 | 1 | 9 |
| -101 | 1 | 25 | -113 | 1 | 9 | -818 | 1 | 20 | -531 | 1 | 23 |
| -101 | 1 | 25 | -117 | 1 | 14 | -818 | 1 | 26 | -542 | 1 | 11 |
| -101 | 1 | 25 | -117 | 1 | 16 | -821 | 1 | 24 | -551 | 1 | 28 |
| -102 | 1 | 4 | -120 | 1 | 9 | 65-302 | 1 | 12 | -561 | 1 | 10 |
| -102 | 1 | 25 | 55-041 | 1 | 23 | -303 | 1 | 26 | -561 | 1 | 24 |
| -103 | 1 | 4 | -051 | 1 | 23 | -311 | 2 | 22 | -612 | 1 | 8 |
| -121 | 1 | 4 | -061 | 1 | 12 | -311 | 2 | 8 | -612 | 1 | 22 |
| -121 | 1 | 21 | -061 | 1 | 20 | -401 | 1 | 24 | -642 | 1 | 23 |
| -121 | 1 | 25 | -061 | 1 | 20 | -402 | 1 | 12 | -647 | 1 | 9 |
| -121 | 1 | 25 | -174 | 1 | 23 | -402 | 1 | 26 | -692 | 1 | 12 |
| -122 | 1 | 4 | 58-112 | 1 | 26 | -435 | 1 | 10 | -692 | 1 | 26 |
| -122 | 1 | 25 | | | | -505 | 1 | 20 | -701 | 1 | 26 |
| -123 | 1 | 4 | 61-201 | 1 | 12 | -506 | 1 | 18 | -753 | 1 | 18 |
| -131 | 1 | 4 | -221 | 1 | 26 | -902 | 1 | 24 | -753 | 1 | 23 |
| -131 | 1 | 21 | -252 | 1 | 20 | 66-111 | 1 | 8 | -782 | 1 | 20 |
| -131 | 1 | 25 | -253 | 1 | 18 | -111 | 1 | 22 | -854 | 1 | 22 |
| -131 | 1 | 25 | -312 | 1 | 9 | -506 | 1 | 9 | -870 | 1 | 8 |
| -132 | 1 | 25 | -312 | 1 | 18 | -506 | 1 | 28 | -874 | 1 | 9 |
| -132 | 1 | 4 | -312 | 1 | 20 | 67-132 | 1 | 10 | -874 | 1 | 8 |
| -133 | 1 | 4 | -312 | 2 | 23 | -132 | 1 | 24 | -901 | 1 | 10 |
| -142 | 1 | 4 | -322 | 1 | 18 | -151 | 1 | 28 | -901 | 1 | 24 |
| -142 | 1 | 21 | -322 | 1 | 20 | -172 | 1 | 12 | -933 | 1 | 8 |
| -142 | 1 | 25 | -322 | 1 | 9 | -172 | 1 | 26 | -933 | 1 | 22 |
| -142 | 1 | 25 | -512 | 1 | 22 | -221 | 1 | 24 | -936 | 1 | 20 |

26. Index (索引)

| Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| 73-113 | 1 | 8 | 75-453 | 1 | 9 | 81-113 | 1 | 22 | 84-171 | 1 | 21 |
| -113 | 1 | 22 | -455 | 1 | 9 | -114 | 1 | 5 | -171 | 1 | 25 |
| 75-101 | 2 | 8 | -455 | 2 | 20 | -115 | 1 | 5 | -176 | 1 | 23 |
| -112 | 1 | 8 | -455 | 1 | 28 | -136 | 1 | 5 | -177 | 1 | 23 |
| -112 | 1 | 12 | -455 | 2 | 18 | -137 | 1 | 5 | -311 | 1 | 20 |
| -112 | 1 | 26 | -455 | 2 | 20 | -141 | 2 | 9 | -311 | 1 | 20 |
| -112 | 1 | 22 | -456 | 1 | 4 | -154 | 1 | 5 | -312 | 1 | 9 |
| -113 | 2 | 26 | -456 | 1 | 4 | -164 | 1 | 20 | -313 | 1 | 20 |
| -114 | 1 | 23 | -456 | 1 | 21 | -166 | 1 | 20 | -361 | 2 | 2 |
| -114 | 1 | 9 | -456 | 1 | 21 | -167 | 1 | 20 | -361 | 2 | 2 |
| -126 | 1 | 20 | -456 | 1 | 25 | -168 | 1 | 10 | -361 | 1 | 4 |
| -132 | 2 | 23 | -456 | 1 | 25 | -168 | 1 | 20 | -361 | 1 | 4 |
| -132 | 1 | 9 | -456 | 1 | 29 | -170 | 1 | 20 | -361 | 1 | 4 |
| -139 | 1 | 10 | -456 | 2 | 29 | -183 | 1 | 5 | -361 | 1 | 4 |
| -139 | 1 | 24 | -458 | 1 | 9 | -184 | 1 | 5 | -361 | 2 | 4 |
| -154 | 1 | 11 | -458 | 1 | 9 | -201 | 1 | 5 | -361 | 1 | 6 |
| -154 | 1 | 18 | -465 | 1 | 20 | -213 | 1 | 20 | -361 | 1 | 10 |
| -154 | 1 | 26 | -465 | 1 | 20 | -255 | 1 | 5 | -361 | 1 | 10 |
| -161 | 1 | 26 | -467 | 3 | 6 | -312 | 1 | 9 | -361 | 2 | 12 |
| -232 | 1 | 8 | -468 | 3 | 6 | -312 | 4 | 20 | -361 | 1 | 16 |
| -243 | 1 | 9 | -469 | 1 | 2 | -338 | 1 | 18 | -361 | 1 | 20 |
| -243 | 1 | 23 | -470 | 1 | 6 | -401 | 1 | 10 | -361 | 1 | 20 |
| -327 | 1 | 10 | -491 | 1 | 12 | -401 | 1 | 24 | -361 | 1 | 21 |
| -327 | 1 | 24 | -529 | 4 | 31 | -412 | 1 | 8 | -361 | 1 | 21 |
| -328 | 1 | 20 | 77-001 | 1 | 31 | -412 | 1 | 22 | -361 | 2 | 21 |
| -331 | 1 | 10 | -002 | 2 | 31 | -512 | 1 | 9 | -361 | 1 | 21 |
| -331 | 1 | 10 | -003 | 1 | 31 | -702 | 1 | 5 | -361 | 1 | 24 |
| -331 | 1 | 24 | -004 | 1 | 31 | -711 | 1 | 5 | -361 | 1 | 25 |
| -332 | 1 | 8 | -005 | 1 | 31 | -713 | 1 | 5 | -361 | 1 | 25 |
| -332 | 2 | 12 | -006 | 1 | 31 | -736 | 2 | 5 | -361 | 1 | 25 |
| -332 | 1 | 22 | -007 | 1 | 31 | -751 | 2 | 5 | -361 | 2 | 25 |
| -332 | 1 | 22 | -009 | 1 | 11 | -751 | 4 | 31 | -361 | 2 | 26 |
| -332 | 2 | 26 | -101 | 1 | 11 | 84-111 | 4 | 14 | -361 | 1 | 29 |
| -371 | 1 | 10 | -103 | 1 | 11 | -113 | 1 | 14 | -362 | 3 | 2 |
| -371 | 1 | 10 | -107 | 1 | 11 | -161 | 1 | 4 | -362 | 3 | 6 |
| -371 | 2 | 23 | -109 | 1 | 11 | -161 | 1 | 6 | -362 | 4 | 11 |
| -371 | 1 | 24 | -111 | 1 | 11 | -161 | 1 | 10 | -362 | 1 | 18 |
| -371 | 1 | 24 | -113 | 1 | 11 | -161 | 1 | 16 | -362 | 1 | 20 |
| -372 | 2 | 9 | -114 | 1 | 11 | -161 | 1 | 16 | -362 | 1 | 20 |
| -381 | 1 | 4 | -116 | 1 | 11 | -161 | 2 | 18 | -362 | 1 | 28 |
| -381 | 2 | 12 | -121 | 1 | 11 | -161 | 2 | 20 | -363 | 1 | 2 |
| -381 | 1 | 23 | -131 | 1 | 11 | -161 | 1 | 21 | -363 | 3 | 6 |
| -381 | 1 | 25 | -133 | 1 | 11 | -161 | 1 | 25 | -363 | 3 | 9 |
| -381 | 1 | 25 | -135 | 1 | 11 | -162 | 1 | 4 | -363 | 1 | 9 |
| -381 | 1 | 26 | -136 | 1 | 11 | -162 | 2 | 9 | -363 | 2 | 18 |
| -381 | 4 | 28 | -143 | 1 | 11 | -162 | 2 | 10 | -363 | 2 | 29 |
| -384 | 1 | 18 | 79-121 | 1 | 11 | -162 | 1 | 20 | -364 | 1 | 4 |
| -401 | 1 | 10 | -142 | 1 | 28 | -162 | 1 | 21 | -364 | 1 | 14 |
| -401 | 2 | 18 | -142 | 1 | 18 | -162 | 1 | 25 | -364 | 1 | 21 |
| -401 | 1 | 24 | -142 | 1 | 18 | -162 | 2 | 29 | -364 | 1 | 25 |
| -403 | 1 | 12 | -146 | 1 | 28 | -163 | 1 | 4 | -364 | 1 | 16 |
| -446 | 2 | 2 | -158 | 1 | 20 | -163 | 1 | 14 | -365 | 1 | 8 |
| -451 | 4 | 31 | -171 | 1 | 20 | -163 | 1 | 16 | -365 | 1 | 22 |
| -452 | 1 | 10 | -174 | 1 | 20 | -163 | 1 | 21 | -365 | 1 | 22 |
| -452 | 1 | 20 | -175 | 1 | 20 | -163 | 1 | 25 | -366 | 1 | 8 |
| -452 | 1 | 24 | -222 | 1 | 11 | -164 | 2 | 5 | -366 | 1 | 9 |
| -452 | 1 | 28 | -236 | 1 | 6 | -164 | 4 | 9 | -366 | 1 | 9 |
| -453 | 1 | 2 | -501 | 1 | 2 | -164 | 1 | 10 | -366 | 1 | 10 |
| -453 | 1 | 4 | -502 | 1 | 2 | -164 | 4 | 20 | -366 | 1 | 20 |
| -453 | 2 | 10 | -601 | 1 | 24 | -164 | 2 | 20 | -366 | 1 | 23 |
| -453 | 1 | 11 | 80-751 | 4 | 31 | -164 | 1 | 24 | -366 | 1 | 23 |
| -453 | 1 | 21 | -101 | 2 | 26 | -168 | 1 | 14 | -366 | 1 | 24 |
| -453 | 1 | 23 | 81-110 | 1 | 5 | -168 | 1 | 16 | -366 | 1 | 28 |
| -453 | 2 | 24 | -113 | 1 | 8 | -171 | 1 | 4 | -368 | 1 | 14 |
| -453 | 1 | 26 | | | | -171 | 1 | 16 | -370 | 1 | 20 |

26. Index (索引)

| Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| 84-374 | 1 | 4 | 84-566 | 2 | 11 | 84-588 | 1 | 23 | 84-862 | 1 | 20 |
| -374 | 1 | 4 | -566 | 2 | 18 | -591 | 1 | 8 | 85-112 | 1 | 26 |
| -374 | 2 | 18 | -566 | 1 | 18 | -591 | 1 | 22 | -113 | 12 | 8 |
| -374 | 1 | 21 | -566 | 3 | 22 | -591 | 1 | 28 | -113 | 2 | 20 |
| -374 | 1 | 21 | -566 | 1 | 25 | -612 | 1 | 10 | -113 | 6 | 22 |
| -374 | 1 | 25 | -566 | 1 | 26 | -612 | 2 | 23 | -114 | 2 | 8 |
| -374 | 1 | 25 | -566 | 2 | 29 | -612 | 1 | 24 | -114 | 2 | 8 |
| -374 | 2 | 28 | -566 | 2 | 26 | -612 | 1 | 28 | -114 | 2 | 22 |
| 4 | 2 | 28 | -566 | 2 | 29 | -614 | 1 | 9 | -114 | 2 | 22 |
| -374 | 1 | 28 | -566 | 2 | 29 | -616 | 1 | 10 | -181 | 2 | 18 |
| -374 | 1 | 28 | -567 | 2 | 8 | -616 | 2 | 10 | -181 | 2 | 29 |
| -377 | 1 | 20 | -567 | 2 | 12 | -616 | 2 | 24 | -182 | 1 | 8 |
| -379 | 2 | 9 | -567 | 2 | 26 | -661 | 8 | 2 | -182 | 1 | 22 |
| -382 | 1 | 14 | -567 | 2 | 22 | -661 | 4 | 9 | -211 | 1 | 10 |
| -382 | 1 | 16 | -567 | 2 | 26 | -661 | 4 | 23 | -211 | 1 | 22 |
| -383 | 1 | 9 | -568 | 2 | 8 | -661 | 2 | 28 | -211 | 1 | 24 |
| -383 | 1 | 23 | -568 | 2 | 12 | -664 | 10 | 2 | -212 | 2 | 8 |
| -462 | 1 | 2 | -568 | 2 | 22 | -711 | 2 | 9 | -212 | 2 | 22 |
| -462 | 1 | 9 | -571 | 4 | 2 | -711 | 1 | 20 | -314 | 1 | 24 |
| -463 | 1 | 23 | -571 | 4 | 2 | -711 | 2 | 23 | -531 | 1 | 4 |
| -464 | 2 | 4 | -571 | 1 | 2 | -712 | 2 | 18 | -531 | 1 | 20 |
| -464 | 2 | 14 | -571 | 2 | 2 | -712 | 1 | 23 | -531 | 1 | 21 |
| -464 | 1 | 16 | -571 | 1 | 4 | -715 | 4 | 9 | -531 | 1 | 25 |
| -464 | 2 | 18 | -571 | 1 | 4 | -715 | 1 | 20 | -611 | 1 | 14 |
| -464 | 2 | 21 | -571 | 4 | 6 | -715 | 4 | 23 | -611 | 1 | 16 |
| -464 | 2 | 25 | -571 | 2 | 9 | -716 | 1 | 24 | -621 | 2 | 4 |
| -511 | 2 | 9 | -571 | 1 | 4 | -718 | 2 | 22 | -621 | 1 | 4 |
| -511 | 1 | 11 | -571 | 2 | 12 | -718 | 4 | 26 | -621 | 1 | 16 |
| -511 | 2 | 14 | -571 | 2 | 18 | -718 | 2 | 8 | -621 | 1 | 21 |
| -511 | 2 | 16 | -571 | 1 | 18 | -718 | 6 | 12 | -621 | 1 | 21 |
| -511 | 1 | 18 | -571 | 1 | 21 | -761 | 1 | 9 | -621 | 2 | 21 |
| -511 | 2 | 23 | -571 | 1 | 21 | -761 | 2 | 8 | -621 | 2 | 25 |
| -512 | 1 | 9 | -571 | 1 | 21 | -761 | 2 | 10 | -623 | 1 | 14 |
| -512 | 2 | 11 | -571 | 2 | 23 | -761 | 1 | 18 | -624 | 1 | 23 |
| -512 | 2 | 20 | -571 | 1 | 25 | -761 | 2 | 2 | -629 | 1 | 18 |
| -512 | 1 | 26 | -571 | 1 | 25 | -761 | 1 | 2 | -721 | 1 | 20 |
| -513 | 1 | 14 | -571 | 2 | 25 | -761 | 2 | 23 | -721 | 1 | 20 |
| -513 | 1 | 16 | -571 | 1 | 29 | -761 | 2 | 24 | -762 | 1 | 11 |
| -515 | 1 | 20 | -571 | 2 | 29 | -761 | 2 | 26 | -851 | 1 | 11 |
| -521 | 1 | 2 | -572 | 2 | 2 | -762 | 2 | 12 | 86-311 | 1 | 9 |
| -521 | 1 | 4 | -572 | 3 | 6 | -762 | 2 | 26 | -311 | 1 | 28 |
| -521 | 2 | 6 | -572 | 1 | 8 | -763 | 2 | 18 | -314 | 1 | 10 |
| -521 | 2 | 10 | -572 | 2 | 12 | -763 | 1 | 20 | -411 | 2 | 4 |
| -521 | 1 | 11 | -572 | 2 | 10 | -764 | 1 | 4 | -411 | 2 | 4 |
| -521 | 2 | 12 | -572 | 2 | 10 | -764 | 1 | 11 | -411 | 3 | 4 |
| -521 | 1 | 18 | -572 | 2 | 12 | -764 | 1 | 25 | -411 | 1 | 9 |
| -521 | 1 | 18 | -572 | 2 | 18 | -764 | 2 | 28 | -411 | 1 | 10 |
| -521 | 2 | 20 | -572 | 2 | 20 | -764 | 3 | 26 | -411 | 1 | 10 |
| -521 | 1 | 20 | -572 | 2 | 20 | -766 | 1 | 10 | -411 | 1 | 12 |
| -521 | 1 | 21 | -572 | 1 | 22 | -766 | 1 | 24 | -411 | 1 | 12 |
| -521 | 2 | 24 | -572 | 2 | 24 | -766 | 2 | 26 | -411 | 1 | 12 |
| -521 | 1 | 25 | -572 | 2 | 24 | -767 | 1 | 10 | -411 | 1 | 18 |
| -521 | 2 | 26 | -572 | 2 | 26 | -781 | 1 | 11 | -411 | 1 | 18 |
| -561 | 1 | 11 | -572 | 2 | 26 | -782 | 1 | 28 | -411 | 2 | 21 |
| -561 | 1 | 11 | -574 | 3 | 2 | -784 | 1 | 28 | -411 | 1 | 24 |
| -562 | 1 | 11 | -574 | 1 | 9 | -812 | 1 | 11 | -411 | 1 | 24 |
| -563 | 2 | 22 | -574 | 1 | 23 | -812 | 1 | 20 | -411 | 2 | 25 |
| -564 | 2 | 26 | -575 | 2 | 20 | -812 | 1 | 20 | -411 | 2 | 25 |
| -564 | 1 | 28 | -576 | 1 | 9 | -812 | 1 | 20 | -411 | 1 | 26 |
| -564 | 1 | 28 | -576 | 1 | 9 | -812 | 2 | 20 | -411 | 1 | 26 |
| -564 | 2 | 28 | -576 | 1 | 23 | -812 | 2 | 28 | -411 | 2 | 28 |
| -566 | 5 | 2 | -576 | 1 | 23 | -813 | 2 | 28 | -411 | 2 | 28 |
| -566 | 6 | 2 | -581 | 1 | 11 | -814 | 1 | 9 | -411 | 2 | 29 |
| -566 | 4 | 6 | -586 | 2 | 8 | -861 | 2 | 2 | -412 | 1 | 9 |
| -566 | 3 | 8 | -586 | 2 | 22 | -862 | 2 | 2 | -412 | 1 | 10 |

26. Index (索引)

| Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. | Part No. | Q'ty | Page No. |
|----------|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|
| 86-412 | 1 | 12 | | | | | | | | | |
| -412 | 1 | 23 | | | | | | | | | |
| -412 | 1 | 24 | | | | | | | | | |
| -412 | 1 | 26 | | | | | | | | | |
| -413 | 1 | 10 | | | | | | | | | |
| -413 | 1 | 12 | | | | | | | | | |
| -413 | 1 | 20 | | | | | | | | | |
| -413 | 1 | 20 | | | | | | | | | |
| -413 | 1 | 24 | | | | | | | | | |
| -413 | 1 | 26 | | | | | | | | | |
| -415 | 1 | 20 | | | | | | | | | |
| -501 | 1 | 5 | | | | | | | | | |
| -501 | 1 | 10 | | | | | | | | | |
| -501 | 2 | 12 | | | | | | | | | |
| -501 | 2 | 20 | | | | | | | | | |
| -501 | 1 | 20 | | | | | | | | | |
| -501 | 1 | 23 | | | | | | | | | |
| -501 | 1 | 24 | | | | | | | | | |
| -501 | 1 | 26 | | | | | | | | | |
| -501 | 1 | 26 | | | | | | | | | |
| -502 | 1 | 10 | | | | | | | | | |
| -502 | 1 | 24 | | | | | | | | | |
| 87-149 | 1 | 31 | | | | | | | | | |
| -150 | 1 | 31 | | | | | | | | | |
| -156 | 2 | 31 | | | | | | | | | |
| -161 | 2 | 31 | | | | | | | | | |
| -516 | 1 | 20 | | | | | | | | | |
| -521 | 1 | 28 | | | | | | | | | |
| -756 | 2 | 2 | | | | | | | | | |
| -810 | 1 | 2 | | | | | | | | | |
| -811 | 1 | 5 | | | | | | | | | |
| -812 | 1 | 5 | | | | | | | | | |
| 88-156 | 1 | 31 | | | | | | | | | |
| -176 | 2 | 31 | | | | | | | | | |
| -176 | 4 | 31 | | | | | | | | | |
| 91-011 | 28 | 8 | | | | | | | | | |
| -011 | 28 | 22 | | | | | | | | | |
| -156 | 1 | 12 | | | | | | | | | |
| -271 | 1 | 9 | | | | | | | | | |
| -271 | 1 | 23 | | | | | | | | | |
| -406 | 2 | 23 | | | | | | | | | |
| -406 | 2 | 9 | | | | | | | | | |
| 92-231 | 1 | 8 | | | | | | | | | |
| -231 | 1 | 10 | | | | | | | | | |
| -231 | 1 | 22 | | | | | | | | | |
| -231 | 1 | 24 | | | | | | | | | |
| 93-200 | 2 | 20 | | | | | | | | | |
| -201 | 2 | 24 | | | | | | | | | |
| -221 | 1 | 18 | | | | | | | | | |
| -251 | 1 | 12 | | | | | | | | | |
| -261 | 1 | 9 | | | | | | | | | |
| -406 | 2 | 9 | | | | | | | | | |
| -406 | 2 | 23 | | | | | | | | | |
| -611 | 2 | 11 | | | | | | | | | |
| -621 | 3 | 5 | | | | | | | | | |
| 94-231 | 1 | 12 | | | | | | | | | |
| -231 | 1 | 26 | | | | | | | | | |

MORNING STAR CO. LTD.

1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060
2061
2062
2063
2064
2065
2066
2067
2068
2069
2070
2071
2072
2073
2074
2075
2076
2077
2078
2079
2080
2081
2082
2083
2084
2085
2086
2087
2088
2089
2090
2091
2092
2093
2094
2095
2096
2097
2098
2099
2100