

PARTS LIST & INSTRUCTION

NR**SERIES**

Industrial Sewing Machines

PARTS LIST 3rd edition June 2016
INSTRUCTION 3rd edition June 2016

No. 160066

KANSAI
SPECIAL®

■このパーツブックは、2016年6月製造中のNRシリーズのデータに基づいて作成されたものです。

■各機構別に収録され、左側のページに分解イラスト図、右側のページに部品番号、名称、及び数量が記載されています。

■この本の最後に部品番号インデックスを記載しています。部品番号からの図解、名称の検索に御利用下さい。

■部品は、予告なく変更される場合がありますので、あらかじめ御了承下さい。

■This parts book is based on data current June 2016.

■Each mechanism is arranged on facing pages. You will find listed for parts number, names, and quantities.

■A parts number index is attached to the back of this book for convenience.

■Parts are subject to change without notice.

NRシリーズ 表示方法

NR SERIES INFORMATION

■NR9803Gは上飾り付です。

NR9803G is with top cover thread.

NR9701Gは上飾り無しです。

NR9701G is without top cover thread.

■針幅です。(インチ)

Needle width. (inch)



■3は3本針です。

3 is 3 Needle machine.

■UTAはエア一式糸切装置付ミシンです。(PNEUMATIC TYPE)

UTA is with thread trimmer unit.

UTEは電気式糸切装置付ミシンです。(ELECTRIC TYPE)

UTE is with thread trimmer unit.

UTABはUTAのエアーフロー式糸切装置付ミシンです。

UTAB is UTA with air wiper

without top cover thread trimmer.

■CCは地縫い、裾引き、潰しカバーリング、片倒しカバーリング用です。

CC for plain seaming, heming, covering, fold-down covering operation.

Pは後ギアプラー装置付です。 P is with rear gear puller.

PEは後スムースプラー装置付です。 PE is with rear smooth puller.

ALKは左メス装置付裾引用です。 ALK for hemming with fabric trimmer.

PLKは左メス装置、ギアプラー付ゴム入れ用です。

PLK for hemming in inserting elastic tape with fabric trimmer and gear puller.

PEHKは右メス装置、スムースプラー付丸ゴム付用です。

PEHK for attaching flat elastic with fabric trimmer and smooth puller.

PGHKは右メス装置、ギアプラー付丸ゴム付用です。

PGHK for attaching flat elastic with fabric trimmer and gear puller.

Dは地縫用です。 D for plain seaming operation.

Jはジーンズ裾三巻用です。

J for hemming trouser bottoms and sleeves on jeans wear.

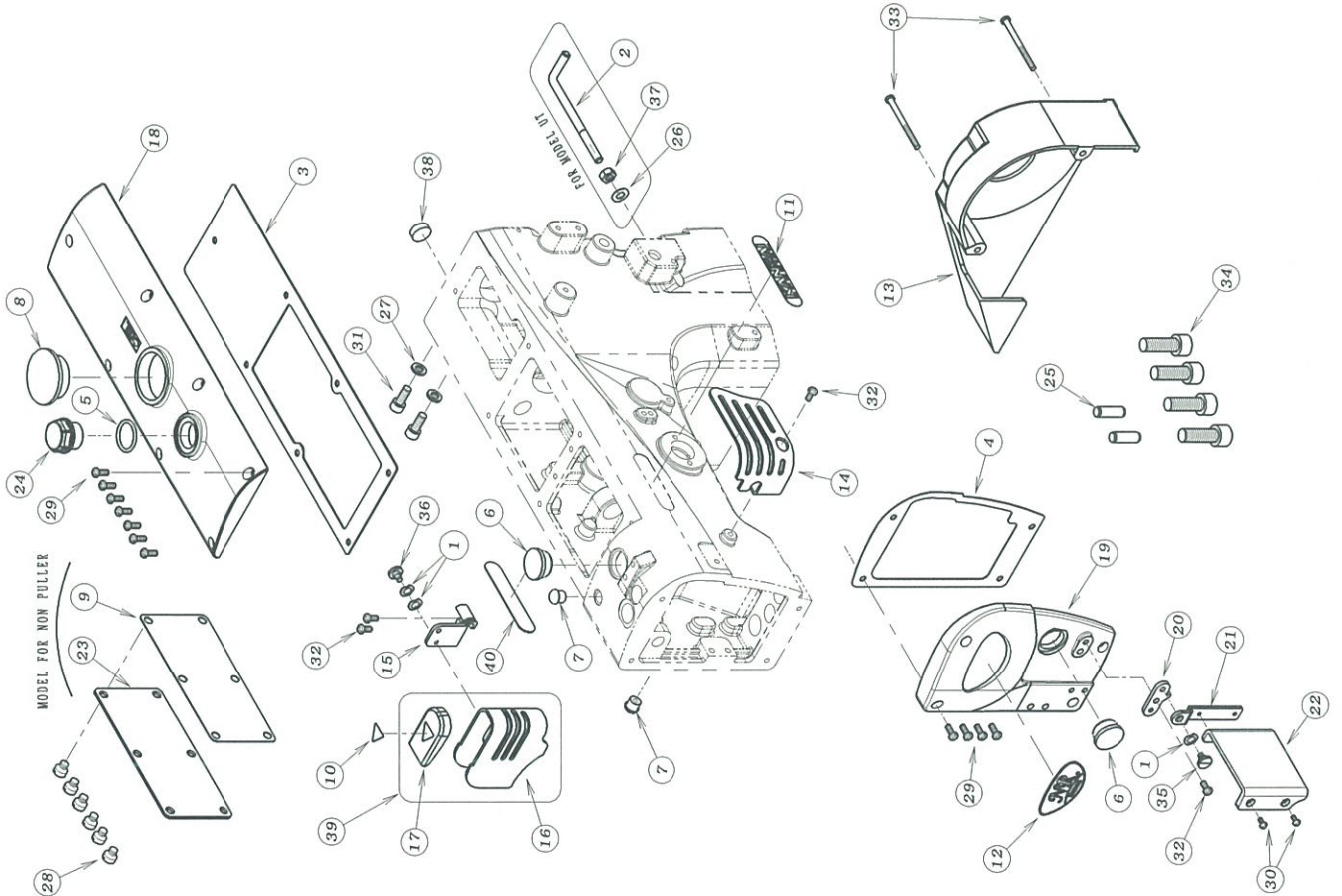
PMDは前プラー装置付です。 PMD is with front puller.

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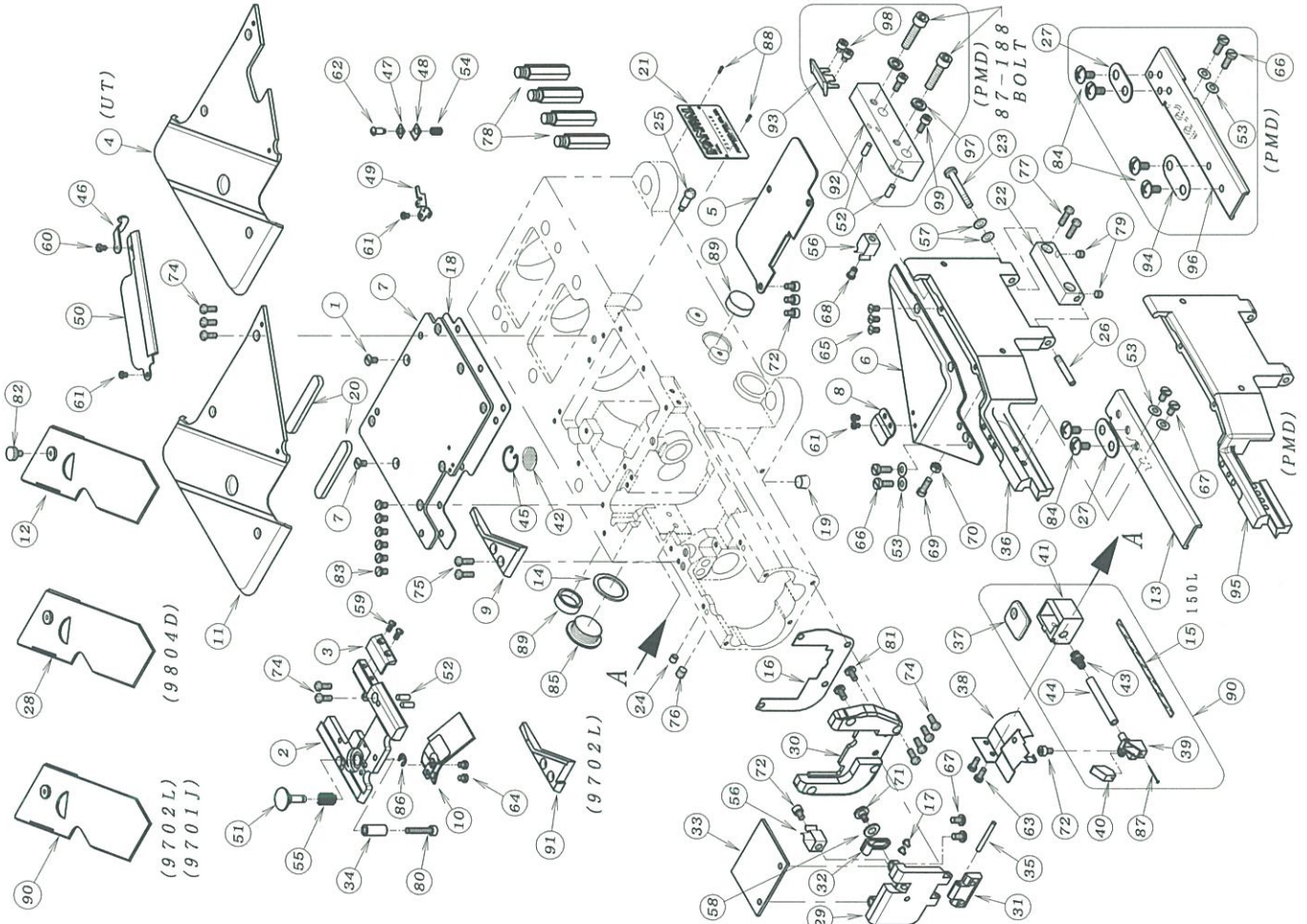
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I. フレーム関係 (1) FRAME ASSEMBLY (1)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|---------------|-----------------|------------------------|-------------|------|
| 01-01102-119 | 鍍金 | WASHER | | 3 |
| 01-02105-292 | ホシ'ジョナーハ'ー | BAR | | 1 |
| 01-03123-041 | トップカバー'ハ'ッキン | GASKET | | 1 |
| 01-04123-045 | 面板'ハ'ッキン | GASKET | | 1 |
| 01-05123-287 | O-リング | O RING | | 1 |
| 01-06123-427 | コ'ム栓 | PLUG | | 2 |
| 01-07123-501 | コ'ム栓 | PLUG | | 2 |
| 01-08123-504 | コ'ム栓 | PLUG | | 1 |
| 01-09123-538 | ハ'ッキン | GASKET | | 1 |
| 01-10124-060 | 針棒カバー'シール | SEAL | | 1 |
| 01-11124-069 | 銘版 | BRAND NAME PLATE | | 1 |
| 01-12124-062 | 機構プレート | MODEL PLATE | | 1 |
| 01-13127-136 | プーリーカバー | PULLEY COVER | | 1 |
| 01-14127-231 | 天枠カバー'ー | COVER | | 1 |
| 01-15127-233 | 針棒カバー'ーフ'ラケット | BRACKET | | 1 |
| 01-16127-234 | 針棒カバー'ー | NEEDLE BAR COVER | | 1 |
| 01-17127-235 | 針棒カバー'ーコ'ム | RUBBER | | 1 |
| 01-18127-237W | トップカバー'ー | TOP COVER | | 1 |
| 01-19127-238W | 面版 | HEAD COVER | | 1 |
| 01-20127-239 | アイカ'ート'ヒンジ' (1) | HINGE | | 1 |
| 01-21127-240 | アイカ'ート'ヒンジ' (2) | HINGE | | 1 |
| 01-22127-241 | アイカ'ート' | EYE GUARD | | 1 |
| 01-23127-323W | 後カバー'ー | REAR COVER | | 1 |
| 01-24139-235 | オイルポット | OIL POT | | 1 |
| 01-25171-580 | ノックピン | PIN | | 2 |
| 01-26175-452 | ワッシャ | WASHER | | 1 |
| 01-27175-552 | ワッシャ | WASHER | | 2 |
| 01-28175-553 | スリリ付小ネジM6x6L | SCREW M6x6L | | 6 |
| 01-29187-483 | プライマイナベ'小ねじ | SCREW | | 11 |
| 01-30187-477 | プライマイナベ'小ねじ | SCREW | | 2 |
| 01-31187-171 | 六角穴付きボルト | BOLT | | 2 |
| 01-32187-482 | プライマイナベ'小ねじ | SCREW | | 4 |
| 01-33187-489 | プライマイナベ'小ねじ | SCREW | | 2 |
| 01-34187-228 | 六角穴付きボルト | BOLT | | 4 |
| 01-35187-264 | 段ネジ | SCREW | | 1 |
| 01-36187-437 | 段ネジ | SCREW | | 1 |
| 01-37188-166 | ナット | NUT | | 1 |
| 01-38194-504 | シールキャップ | PLUG | | 1 |
| 01-39120-0008 | 針棒カバー'セット | NEEDLE BAR COVER ASS'Y | | 1 |
| 01-40124-052 | 銘版 | BRAND NAME PLATE | | 1 |

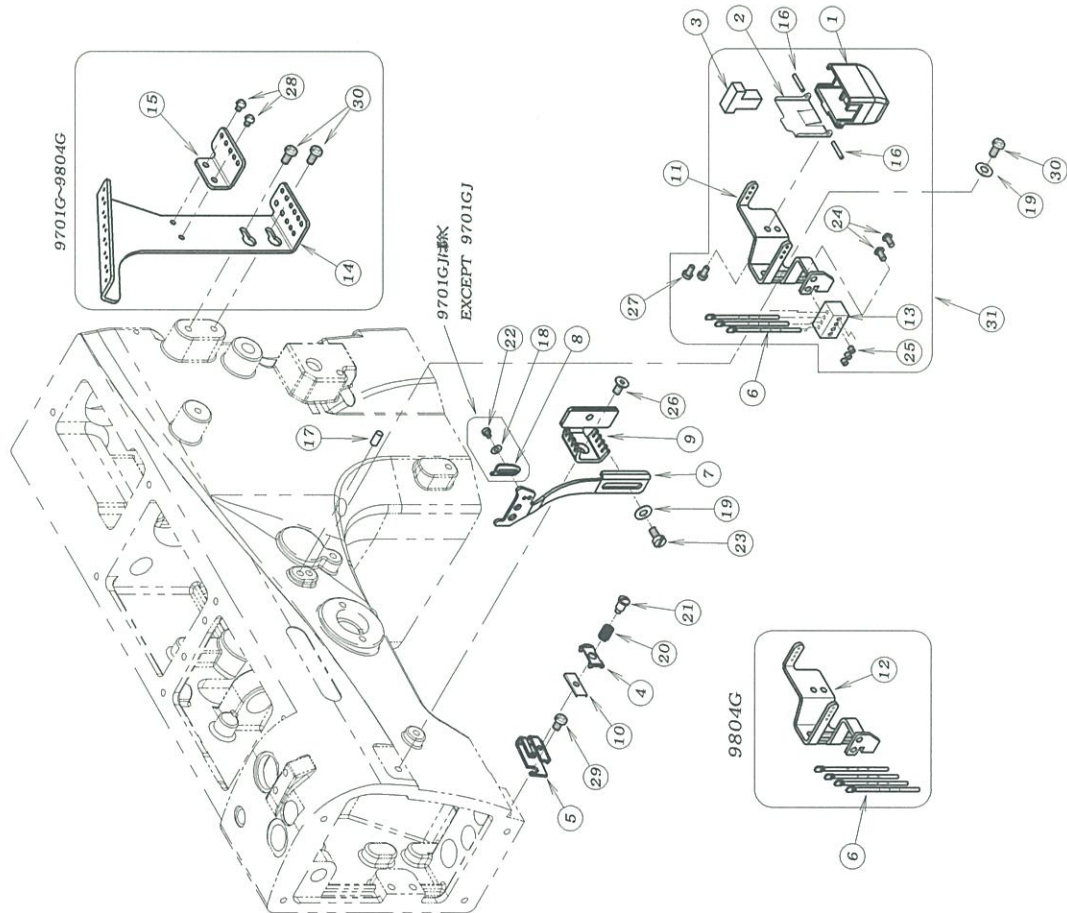
2. フレーム関係 (2-1) FRAME ASSEMBLY (2-1)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|----------------|------------------------------|------|
| 02-01 | 05-061 | ネジ | SCREW | 2 |
| 02-02 | 14-167 | 針板土台 | NEEDLE PLATE SUPPORT BRACKET | 1 |
| 02-03 | 14-168 | 針板補助プレート | BRACKET | 1 |
| 02-04 | 21-610W | 上ベースカバー | UPPER COVER | 1 |
| 02-05 | 21-640 | 防塵プレート | PLATE | 1 |
| 02-06 | 21-642W | 定規板 | FRONT COVER | 1 |
| 02-07 | 21-643 | 上油カバー | CRANK CHAMBER COVER | 1 |
| 02-08 | 21-644 | 調子皿保護カバー | COVER | 1 |
| 02-09 | 21-646W | 差板補助カバー | COVER | 1 |
| 02-10 | 21-670 | オイルカバー | OIL DIPENDER | 1 |
| 02-11 | 21-678W | 上ベースカバー | UPPER COVER | 1 |
| 02-12 | 21-679 | 差板 | SLIDE COVER | 1 |
| 02-13 | 21-874 | 補助カバー | COVER | 1 |
| 02-14 | 23-298 | フタネジ用シール | SEAL | 1 |
| 02-15 | 23-341 | フェルト | FELT | 1 |
| 02-16 | 23-510 | パッキン | GASKET | 1 |
| 02-17 | 23-512 | クッションゴム | CUSHION RUBBER | 2 |
| 02-18 | 23-513 | パッキン | GASKET | 1 |
| 02-19 | 23-528 | プラグ | PLUG | 1 |
| 02-20 | 23-570 | 防振マット | CUSHION | 2 |
| 02-21 | 24-053 | モテ、ルスタック | TYPE PLATE | 1 |
| 02-22 | 25-516W | 定規台ヒンジ | HINGE | 1 |
| 02-23 | 25-517 | ヒンジネジ | SCREW | 1 |
| 02-24 | 25-521 | プラグ | PLUG | 1 |
| 02-25 | 25-522 | カバー、スタック、ネジ | SCREW | 1 |
| 02-26 | 25-527 | カバー、ヒンジ、ネジ | SCREW | 1 |
| 02-27 | 26-822 | フック、取付金具 | PLATE | 2 |
| 02-28 | 27-114 | 差板 | SLIDE COVER | 1 |
| 02-29 | 27-212W | 横カバー | SIDE COVER | 1 |
| 02-30 | 27-213W | 横カバーヒンジ土台 | HINGE | 1 |
| 02-31 | 27-214W | 横カバーヒンジ | HINGE | 1 |
| 02-32 | 27-215 | レバー | LEVER | 1 |
| 02-33 | 27-216 | 横カバープレート | SIDE COVER PLATE | 1 |
| 02-34 | 27-217 | カバー、スタック、カラー | COLLAR | 1 |
| 02-35 | 27-218 | ヒンジ、ヒン | PIN | 1 |
| 02-36 | 27-223W | 定規台 | FRONT COVER | 1 |
| 02-37 | 27-279 | ニードルカバー、蓋 | NEEDLE COOLER COVER | 1 |
| 02-38 | 27-303 | オイルメンテナンス (下輪) | OIL DIPENDER | 1 |
| 02-39 | 27-522 | ニードルカバー | NEEDLE COOLER | 1 |
| 02-40 | 27-523 | フェルト | FELT | 1 |
| 02-41 | 27-524 | ニードルカバー、タンク | NEEDLE COOLER TUNK | 1 |
| 02-42 | 31-503 | 濾過網 | OIL FILTER SCREEN | 1 |
| 02-43 | 31-505 | 継手 | JOINT | 1 |
| 02-44 | 35-522 | ヒ、ニールチューブ | TUBE | 1 |
| 02-45 | 39-503 | 減速機押え | CLAMP | 1 |
| 02-46 | 43-515 | ルーバー、糸道 | THREAD EYELET | 1 |
| 02-47 | 43-516 | 調子皿 (上) | TENSION DISK | 1 |
| 02-48 | 43-517 | 調子皿 (下) | TENSION DISK | 1 |
| 02-49 | 43-527 | 調子皿カバー | TENSION DISK GUIDE | 1 |
| 02-50 | 43-528 | ルーバー、糸案内 | LOOPER THREAD GUIDE | 1 |
| 02-51 | 69-517 | フック、ボルト | PUSH BUTTON | 1 |
| 02-52 | 71-253 | フック、ヒン | PIN | 4 |
| 02-53 | 75-455 | ワッシャー | WASHER | 6 |
| 02-54 | 79-524 | 調子皿、ネ | TENSION SPRING | 1 |
| 02-55 | 79-528 | カバー、ネ | SPRING | 1 |
| 02-56 | 79-912 | カバー、ネ | SPRING | 2 |

3. 糸調子機構

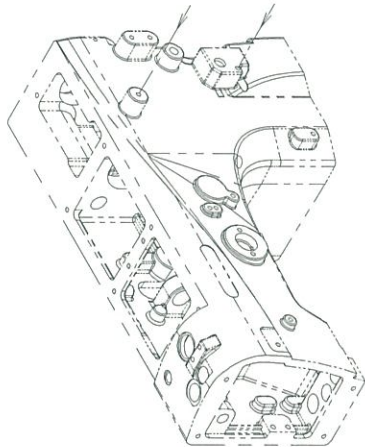
THREAD TENSION MECHANISM



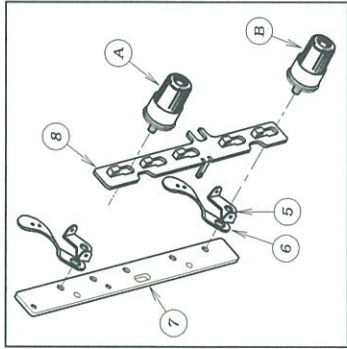
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|-------------|------------------------|------|
| 03-01 | 27-039 | シリコタンク | SILICONE OIL RESERVOIR | 1 |
| 03-02 | 27-533 | シリコタンクフタ | COVER | 1 |
| 03-03 | 27-534 | フェルト | FELT | 1 |
| 03-04 | 41-021 | カム糸道 | THREAD NIPPER | 1 |
| 03-05 | 41-022 | 小調子台 | THREAD GUIDE BRACKET | 1 |
| 03-06 | 45-031 | 糸道 | THREAD EYELET | 7 |
| 03-07 | 45-033 | 上糸調子 | THREAD GUIDE | 1 |
| 03-08 | 45-034 | 補助上糸調子 | THREAD GUIDE | 1 |
| 03-09 | 45-038 | 上糸カイト | GUIDE | 1 |
| 03-10 | 45-508 | 針挟小調子板 | PLATE | 1 |
| 03-11 | 45-541 | シリコタンク糸道 | THREAD EYELET | 1 |
| 03-12 | 45-551 | シリコタンク糸道 | THREAD EYELET | 1 |
| 03-13 | 45-553 | ホルダ - | HOLDER | 1 |
| 03-14 | 45-567 | 糸ガイド | THREAD GUIDE | 1 |
| 03-15 | 45-568 | 糸ガイド糸道 | THREAD EYELET | 1 |
| 03-16 | 71-202 | シリコタンク用ピン | SILICONE PIN | 2 |
| 03-17 | 71-209 | 平行ピン | PIN | 1 |
| 03-18 | 75-441 | ワッシャー | WASHER | 1 |
| 03-19 | 75-455 | ワッシャー | WASHER | 2 |
| 03-20 | 79-025 | カム糸道ハネ | SPRING | 1 |
| 03-21 | 84-021 | ハネカイトネジ | SCREW | 1 |
| 03-22 | 87-093 | ネジ | SCREW | 1 |
| 03-23 | 87-096 | ネジ | SCREW | 1 |
| 03-24 | 87-099 | ネジ | SCREW | 2 |
| 03-25 | 87-104 | ネジ | SCREW | 3 |
| 03-26 | 87-269 | ネジ | SCREW | 1 |
| 03-27 | 87-372 | タッピングネジ | SCREW | 2 |
| 03-28 | 87-476 | ブラマイナベ小ねじ | SCREW | 2 |
| 03-29 | 87-481 | ブラマイナベ小ねじ | SCREW | 2 |
| 03-30 | 87-482 | ブラマイナベ小ねじ | SCREW | 1 |
| 03-31 | 40-523W-3 | シリコタンク糸道セット | THREAD EYELET ASS'Y | 3 |
| | | | | 1 |

4. 糸調子機構 (UT 除外)

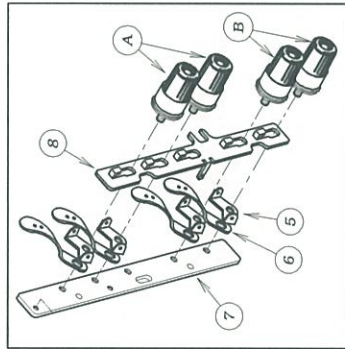
THREAD TENSION MECHANISM (WITHOUT UT)



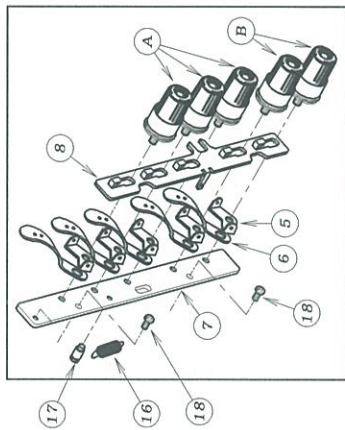
9701



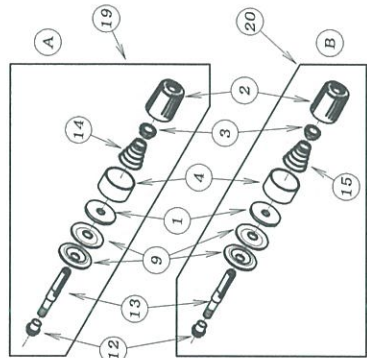
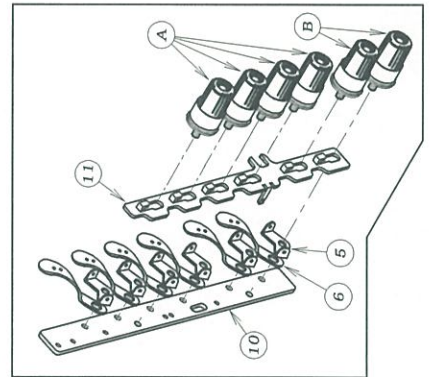
9702



9803



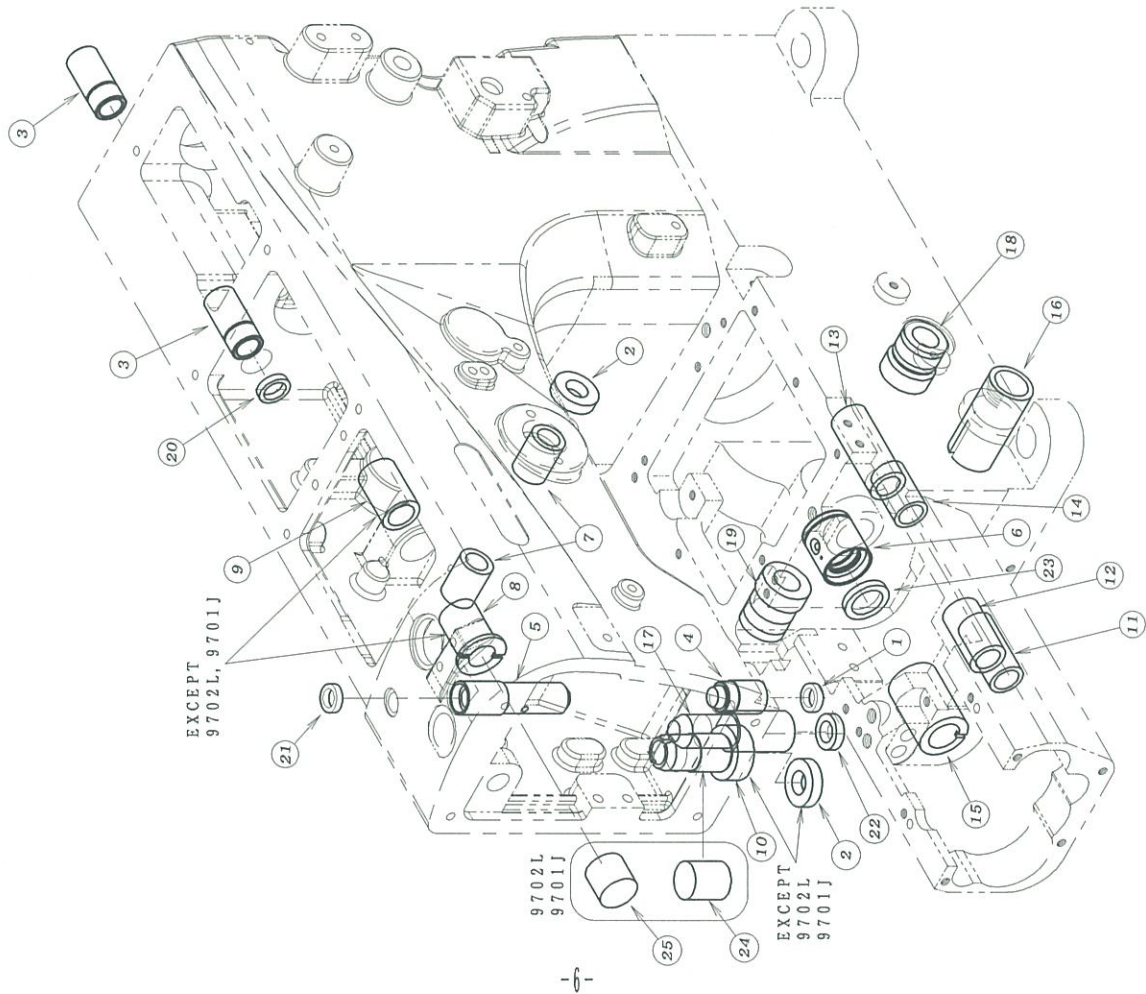
9804



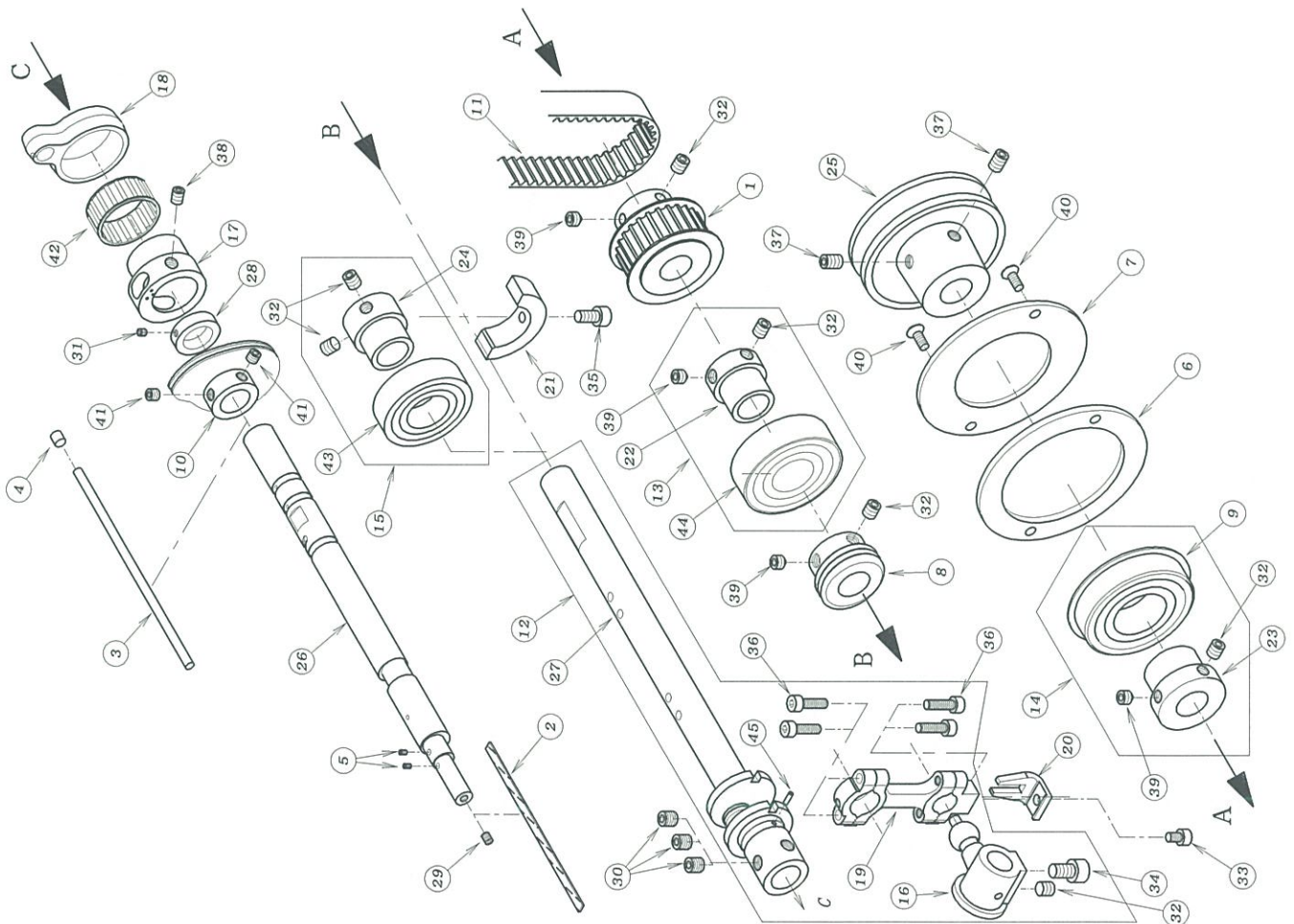
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|----------------|----------------------------|------|
| 04-01 | 23-324 | フェルト | FELT | * |
| 04-02 | 41-104 | チャンボ°ン皿小ケース | THREAD TENSION NUT | * |
| 04-03 | 41-105 | チャンボ°ン皿ラチェット | SPRING POST | * |
| 04-04 | 41-106 | チャンボ°ン大ケース | SPRING CUP | * |
| 04-05 | 41-115 | 糸道 (上) | THREAD GUIDE | * |
| 04-06 | 41-117 | 糸道 (下) | THREAD GUIDE | * |
| 04-07 | 41-501 | ブラケット | BRACKET | 1 |
| 04-08 | 41-502 | 糸繰めプレート | THREAD RELEASER | 1 |
| 04-09 | 41-509 | チャンボ°ン皿 | TENSION DISC | * |
| 04-10 | 41-518 | フ°ラケット | BRACKET | 1 |
| 04-11 | 41-519 | 糸繰めフ°レート | THREAD RELEASER | 1 |
| 04-12 | 41-526 | 調子棒カチ | COLLAR | * |
| 04-13 | 41-527 | 調子棒 | SCREW STUD | * |
| 04-14 | 41-701 | チャンボ°ン調子ハネ (強) | SPRING (HEAVY) | * |
| 04-15 | 41-702 | チャンボ°ン調子ハネ (弱) | SPRING (LIGHT) | * |
| 04-16 | 79-514 | 引張りハネ | SPRING | 1 |
| 04-17 | 84-501 | ネジ | SCREW | 1 |
| 04-18 | 87-482 | プ°ラマイナ°ベ小ねじ | SCREW | 2 |
| 04-19 | 40-7510 | チャンボ°ンセット (強) | THREAD TENSION SET (HEAVE) | * |
| 04-20 | 40-7520 | チャンボ°ンセット (弱) | THREAD TENSION SET (LIGHT) | * |

5. ブッシュ機構 BUSHING

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|-------------|----------|-----------------|----------------|------|
| 05-0194-511 | | オイルシール | OIL SEAL | 1 |
| 05-0294-804 | | オイルシール | OIL SEAL | 2 |
| 05-0381-023 | | 針工器付 運動シャフトブッシュ | BUSHING | 2 |
| 05-0481-047 | | 針棒ブッシュ (下) | BUSHING | 1 |
| 05-0581-048 | | 針棒ブッシュ (上) | BUSHING | 1 |
| 05-0681-049 | | 下軸ブッシュ (後) | BUSHING (REAR) | 1 |
| 05-0781-506 | | ブッシュ | BUSHING | 2 |
| 05-0881-507 | | ブッシュ | BUSHING | 1 |
| 05-0981-508 | | ブッシュ | BUSHING | 1 |
| 05-1081-587 | | 釣り糸ルーパー棒ブッシュ | BUSHING | 1 |
| 05-1181-511 | | ブッシュ | BUSHING | 1 |
| 05-1281-512 | | ブッシュ | BUSHING | 1 |
| 05-1381-513 | | ブッシュ | BUSHING | 1 |
| 05-1481-514 | | ブッシュ | BUSHING | 1 |
| 05-1581-515 | | ブッシュ | BUSHING | 1 |
| 05-1681-518 | | ブッシュ | BUSHING | 1 |
| 05-1781-546 | | ブッシュ | BUSHING | 1 |
| 05-1881-580 | | ルーパー振り元軸ブッシュ | BUSHING | 1 |
| 05-1981-581 | | ルーパー振り元軸ブッシュ | BUSHING | 1 |
| 05-2094-102 | | オイルシール | OIL SEAL | 1 |
| 05-2194-231 | | オイルシール | OIL SEAL | 1 |
| 05-2294-503 | | オイルシール | OIL SEAL | 1 |
| 05-2394-510 | | オイルシール | OIL SEAL | 1 |
| 05-2425-506 | | 詰栓 | SEAL PLUG | 1 |
| 05-2525-507 | | 詰栓 | SEAL PLUG | 1 |

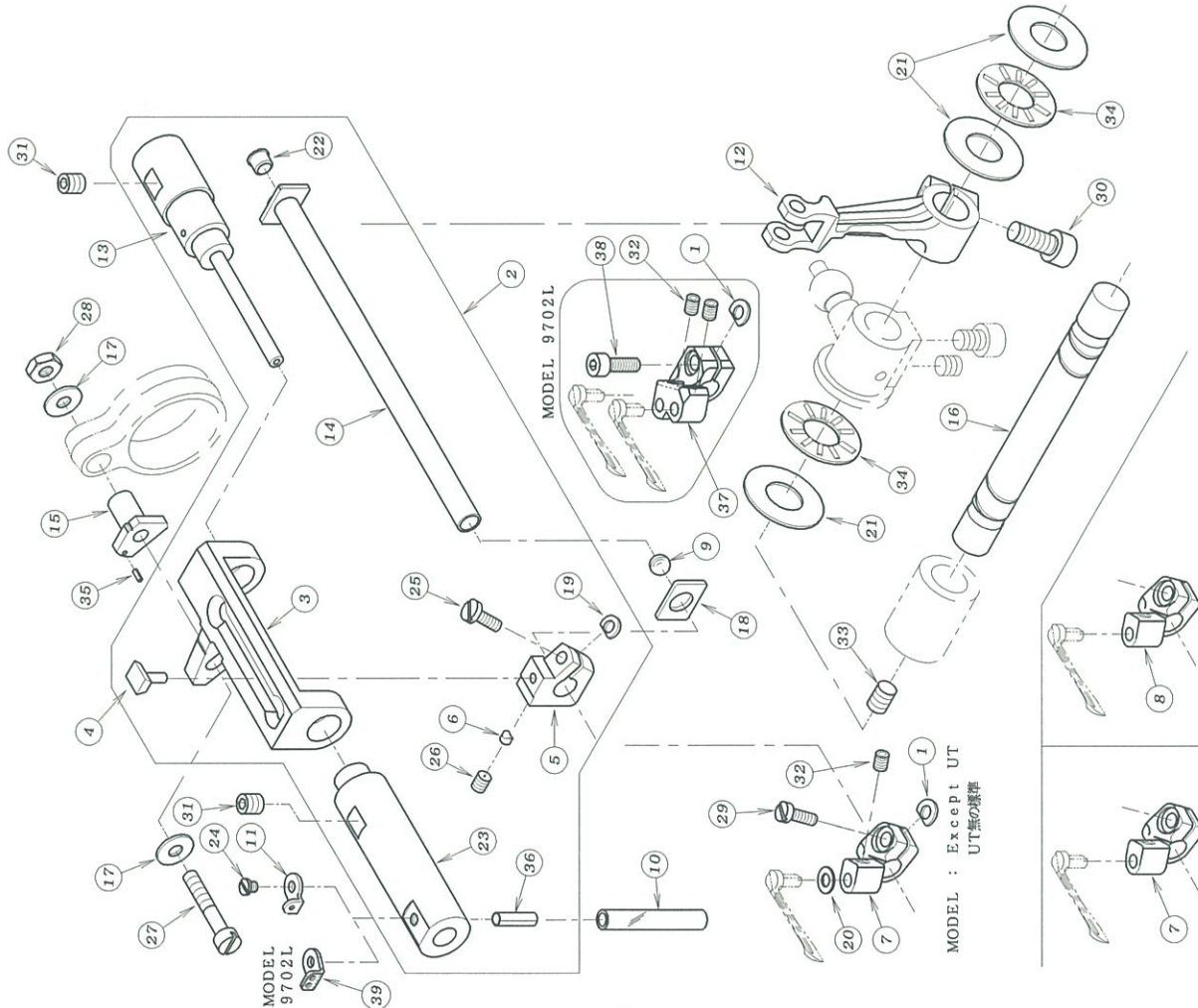


6. 下軸機構 CRANKSHAFT MECHANISM



| REF. NO. | PART NO. | 品名 | DESCRIPTION | QTY |
|----------|----------|----------------|------------------------|-----|
| 06-01 | 06-239 | タイミングロー(下) | TIMING PULLEY | 1 |
| 06-02 | 23-341 | フェルト | FELT | 1 |
| 06-03 | 23-547 | フェルト | FELT | 1 |
| 06-04 | 23-548 | フェルト | FELT | 1 |
| 06-05 | 23-554 | フェルト | FELT | 2 |
| 06-06 | 25-519 | ベアリング止め板(A) | SET PLATE (A) | 1 |
| 06-07 | 25-520 | ベアリング止め板(B) | SET PLATE (B) | 1 |
| 06-08 | 31-540 | ポンプ駆動ギア | PUMP DRIVING WARM | 1 |
| 06-09 | 34-826 | ホムルベアリング | BEARING | 1 |
| 06-10 | 49-501 | ハマグリ | LOOPER THREAD TAKE-UP | 1 |
| 06-11 | 58-007 | タイミングベルト | TIMING BELT | 1 |
| 06-12 | 60-5020 | ループクランクロッド*セット | LOOPER CRANK ROD ASS'Y | 1 |
| 06-13 | 60-8510 | ベアリングセット | BEARING ASS'Y | 1 |
| 06-14 | 60-8540 | ベアリングセット | BEARING ASS'Y | 1 |
| 06-15 | 60-8550 | ベアリングセット | BEARING ASS'Y | 1 |
| 06-16 | 61-507 | ループ*振玉 | DRIVE BALL | 1 |
| 06-17 | 61-522 | 針返エキセン | ECCENTRIC | 1 |
| 06-18 | 63-504 | 針返連結ロッド | CONNECTING ROD | 1 |
| 06-19 | 63-505 | ループ*振りロッド | CONNECTING ROD | 1 |
| 06-20 | 69-513 | 振れ止め | GUIDE | 1 |
| 06-21 | 69-536 | バランス | BALANCER | 1 |
| 06-22 | 69-544 | ベアリングスリーブ | BEARING SLEEVE | 1 |
| 06-23 | 69-549 | スリーブ | SLEEVE | 1 |
| 06-24 | 69-550 | スリーブ | SLEEVE | 1 |
| 06-25 | 69-552 | V-プーリー | V-PULLEY | 1 |
| 06-26 | 71-540 | 下軸 | LOWER SHAFT | 1 |
| 06-27 | 71-587 | 下軸クランク | CRANK SHAFT | 1 |
| 06-28 | 75-511 | カラー | COLLAR | 1 |
| 06-29 | 84-314 | ネジ | SCREW | 1 |
| 06-30 | 85-113 | ネジ | SCREW | 3 |
| 06-31 | 87-104 | ネジ | SCREW | 1 |
| 06-32 | 87-172 | ネジ | SCREW | 7 |
| 06-33 | 87-092 | 六角穴付きボルト | BOLT | 1 |
| 06-34 | 87-203 | 六角穴付きボルト | BOLT | 1 |
| 06-35 | 87-213 | 六角穴付きボルト | BOLT | 1 |
| 06-36 | 87-214 | 六角穴付きボルト | BOLT | 4 |
| 06-37 | 87-242 | ネジ | SCREW | 2 |
| 06-38 | 87-254 | ネジ | SCREW | 1 |
| 06-39 | 87-259 | ネジ | SCREW | 4 |
| 06-40 | 87-270 | ネジ | SCREW | 2 |
| 06-41 | 87-274 | ネジ | SCREW | 2 |
| 06-42 | 91-413 | ニードルベアリング | NEEDLE BEARING | 1 |
| 06-43 | 91-890 | ベアリング | BEARING | 1 |
| 06-44 | 91-994 | ベアリング | BEARING | 1 |
| 06-45 | 93-718 | スプリングピン | SPRING PIN | 1 |

7. ルーパ-機構 LOOPER MECHANISM



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|-------------|------------------------|------|
| 07-01 | 06-375 | スベ-サー | WASHER | 2 |
| 07-02 | 10-5010 | ルーパ-駆動元台セット | LOOPER GUIDE ASS'Y | 1 |
| 07-03 | 19-506 | ルーパ-駆動元台 | LOOPER SHAFT GUIDE | 1 |
| 07-04 | 19-507 | カムフロア | SLIDER | 1 |
| 07-05 | 19-508 | カムフロア-取付台 | SLIDER HOLDER | 1 |
| 07-06 | 19-509 | カムフロア-押しピン | PIN | 1 |
| 07-07 | 19-533 | ルーパ-台 | LOOPER HOLDER | 2 |
| 07-08 | *19-558 | ルーパ-台 | LOOPER HOLDER | 1 |
| 07-09 | 23-515 | プラグ | PLUG | 1 |
| 07-10 | 35-526 | ヒ-ニルチューブ | TUBE | 1 |
| 07-11 | 47-801 | ルーパ-案内糸道 | THREAD EYELET | 1 |
| 07-12 | 67-505 | ルーパ-案内棒 | LEVER | 1 |
| 07-13 | 71-532 | ルーパ-案内棒 | LOOPER SHAFT GUIDE BAR | 1 |
| 07-14 | 71-535 | ルーパ-シャフト | LOOPER SHAFT | 1 |
| 07-15 | 71-538 | 針返駆動ピン | PIN | 1 |
| 07-16 | 71-539 | 駆動シャフト | SHAFT | 1 |
| 07-17 | 75-467 | ワッシャ | WASHER | 2 |
| 07-18 | 75-513 | スタッドワッシャ | WASHER | 1 |
| 07-19 | 75-514 | スベ-サー | WASHER | 1 |
| 07-20 | 75-532 | スベ-サー | SPACER | 1 |
| 07-21 | 75-901 | ワッシャ | WASHER | 3 |
| 07-22 | 81-520 | ブッシュ | BUSHING | 1 |
| 07-23 | 81-573 | ルーパ-案内ブッシュ | BUSHING | 1 |
| 07-24 | 84-163 | ネジ | SCREW | 1 |
| 07-25 | 84-363 | ネジ | SCREW | 1 |
| 07-26 | 84-521 | ネジ | SCREW | 1 |
| 07-27 | 84-589 | ネジ | SCREW | 1 |
| 07-28 | 86-312 | ナット | NUT | 1 |
| 07-29 | 87-011 | ネジ | SCREW | 1 |
| 07-30 | 87-171 | 六角穴付きボルト | BOLT | 1 |
| 07-31 | 87-172 | ネジ | SCREW | 2 |
| 07-32 | 87-181 | ネジ | SCREW | 3 |
| 07-33 | 87-242 | ネジ | SCREW | 1 |
| 07-34 | 92-233 | スラストベ-アリンク | BEARING | 2 |
| 07-35 | 93-717 | スプリングピン | SPRING PIN | 1 |
| 07-36 | 93-719 | スプリングピン | SPRING PIN | 1 |
| 07-37 | 19-769 | ルーパ-台 | LOOPER HOLDER | 1 |
| 07-38 | 87-129 | 六角穴付きボルト | BOLT | 1 |
| 07-39 | 43-571 | ルーパ-案内糸道 | THREAD EYELET | 1 |

* かまぼこ防止用針板の品番は、49ページのゲージパーツ表を参照して下さい。
 * Please refer to Page 49 GAUGE PARTS LIST for soft switch

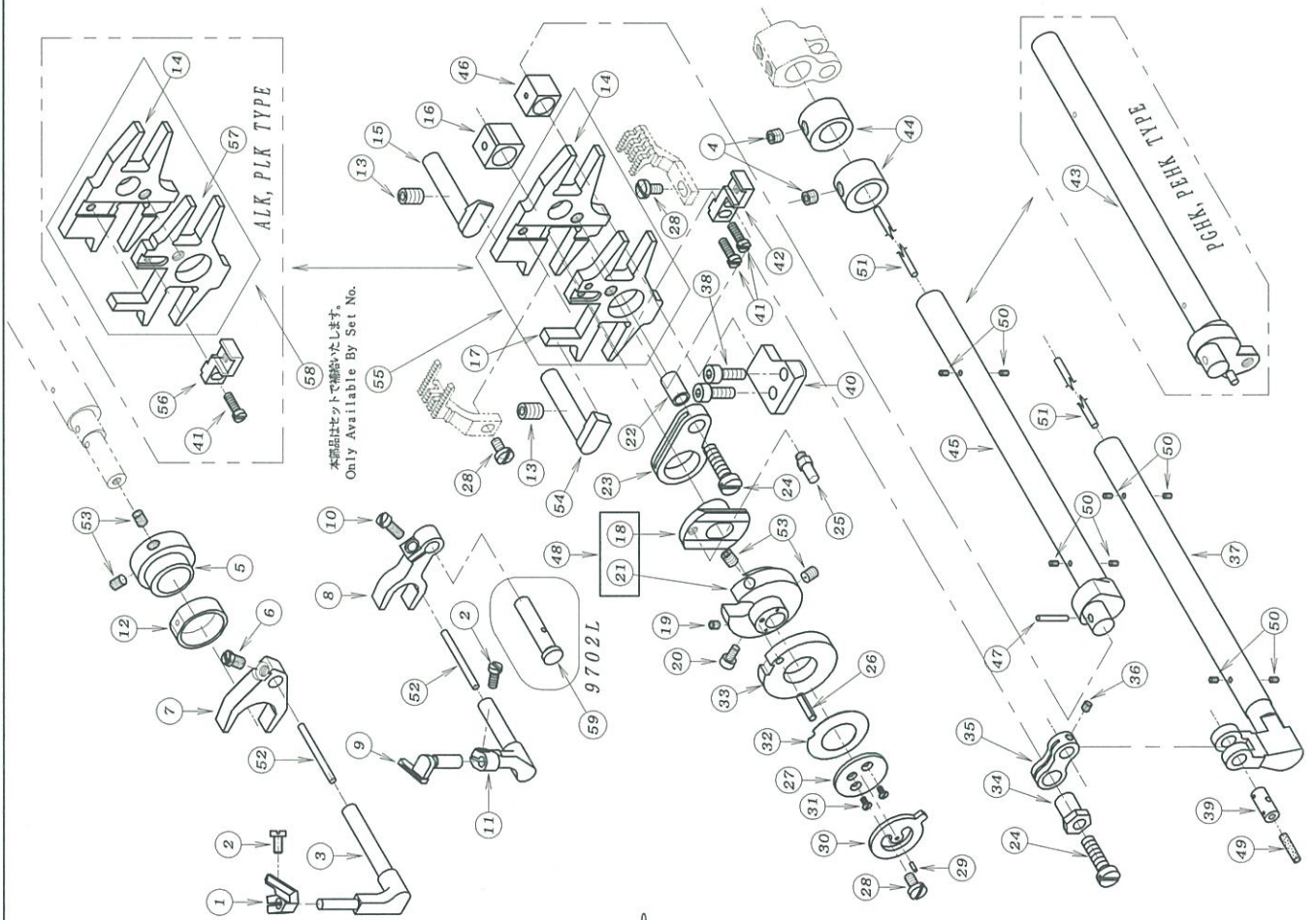
MODEL : With UT
 UT付

MODEL : Except UT
 UT無の標準

MODEL : With UT
 Use for needle plate of soft switch (K-TYPE)
 かまぼこ防止用針板用でUT付 (Kタイプ)

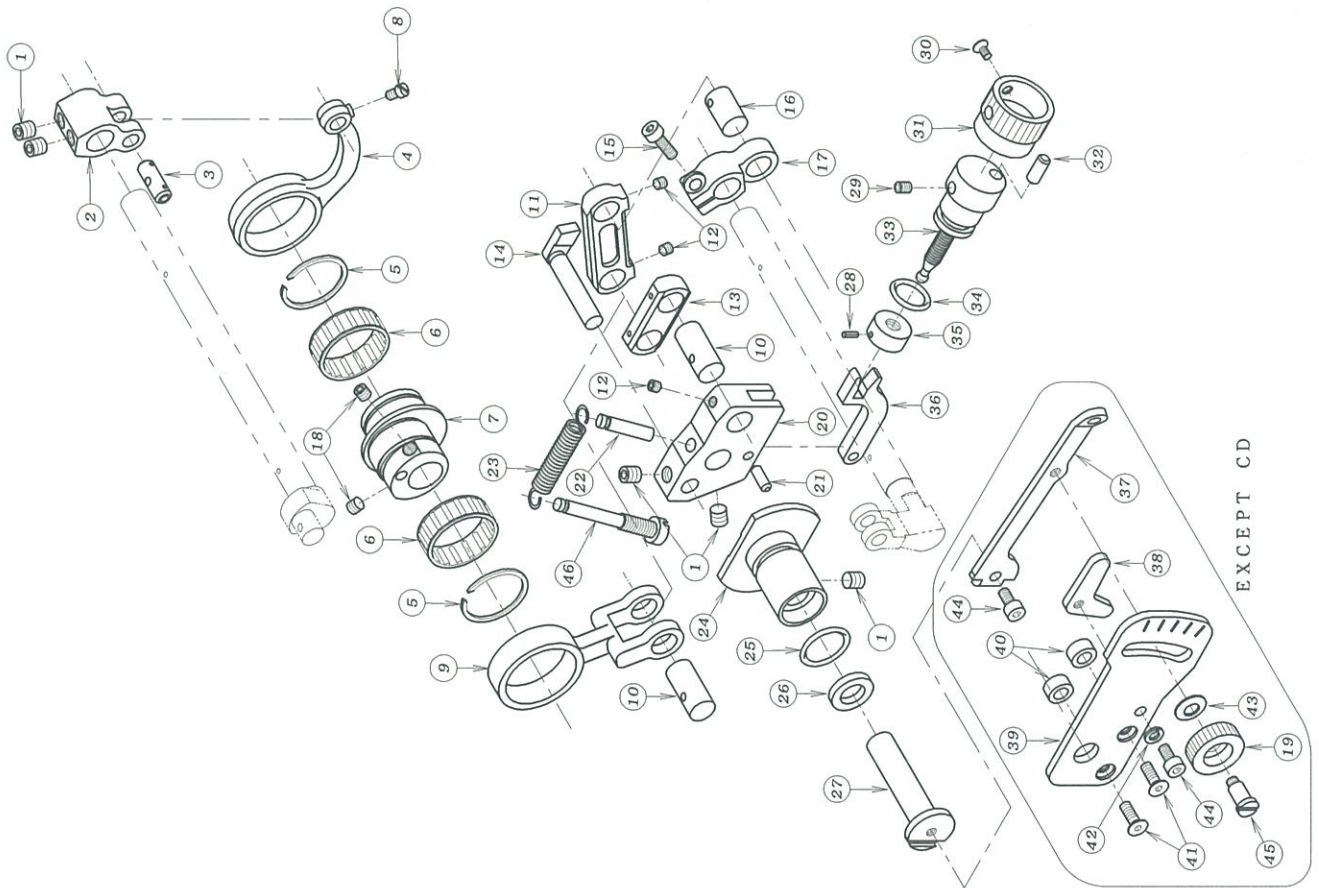
MODEL : Except UT
 Use for needle plate of soft switch
 * UT無でかまぼこ防止用針板使用

8. 送り機構 (1) FEED MECHANISM (1)



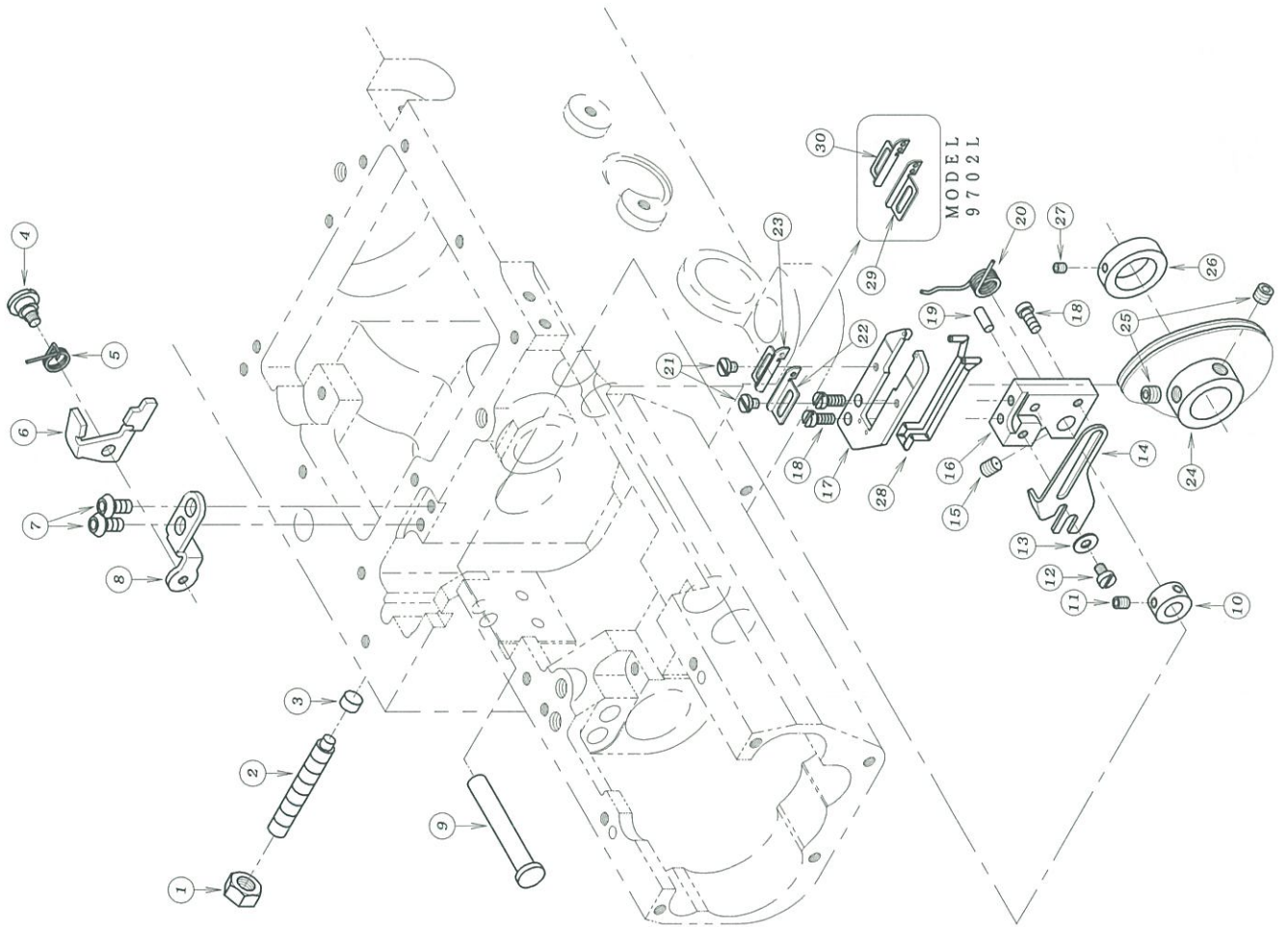
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|------------|----------------------------|------|
| 08-01 | 18-805 | 針受 | NEEDLE GUARD | 1 |
| 08-02 | 84-155 | ネジ | SCREW | 2 |
| 08-03 | 18-804 | 針受ブラケット | BRACKET | 1 |
| 08-04 | 87-274 | ネジ | SCREW | 2 |
| 08-05 | 61-530 | 針受エキセン | ECCENTRIC | 1 |
| 08-06 | 84-616 | ネジ | SCREW | 1 |
| 08-07 | 18-800 | 針受レバ | NEEDLE GUARD LEVER | 1 |
| 08-08 | 18-801 | 針ガイトレバ | NEEDLE GUARD LEVER | 1 |
| 08-09 | 18-806 | 針ガイト | NEEDLE GUARD | 1 |
| 08-10 | 84-376 | ネジ | SCREW | 1 |
| 08-11 | 18-803 | 針ガイトブラケット | BRACKET | 1 |
| 08-12 | 18-799 | 針受エキセン角ゴマ | BLOCK | 1 |
| 08-13 | 87-242 | ネジ | SCREW | 2 |
| 08-14 | 51-827 | 主送り台 | MAIN FEED BAR | 1 |
| 08-15 | 69-514 | 送り台ガイト | FEED ROCKER GUIDE | 1 |
| 08-16 | 51-822 | 角ゴマ(後) | FEED LIFT BLOCK (REAR) | 1 |
| 08-17 | 51-826 | 差動送り台 | DIFFERENTIAL FEED BAR | 1 |
| 08-18 | 61-504 | スライドエキセン | ECCENTRIC | 1 |
| 08-19 | 87-104 | ネジ | SCREW | 1 |
| 08-20 | 87-123 | ネジ | SCREW | 1 |
| 08-21 | 61-503 | 送りエキセン | FEED ECCENTRIC | 1 |
| 08-22 | 71-530 | 主送り連結リンクピン | PIN | 1 |
| 08-23 | 51-823 | 主送り連結リンク | CONNECTING LINK | 1 |
| 08-24 | 87-235 | ネジ | SCREW | 2 |
| 08-25 | 69-511 | エキセンカム案内ピン | PIN | 1 |
| 08-26 | 52-308 | スプリングピン | SPRING PIN | 1 |
| 08-27 | 69-509 | 押取板 | PLATE | 1 |
| 08-28 | 84-374 | ネジ | SCREW | 3 |
| 08-29 | 93-716 | スプリングピン | SPRING PIN | 1 |
| 08-30 | 69-510 | 送り調節ストップバネ | FEED REGULATING STOP | 1 |
| 08-31 | 87-107 | ネジ | SCREW | 2 |
| 08-32 | 79-525 | 皿バネ | SPRING | 1 |
| 08-33 | 69-512 | 送りエキセンカム | CAM | 1 |
| 08-34 | 51-819 | 案内エキセン | ECCENTRIC | 1 |
| 08-35 | 51-820 | 連結リンク | CONNECTING LINK | 1 |
| 08-36 | 87-234 | ネジ | SCREW | 1 |
| 08-37 | 71-558 | 差動送り軸 | FEED SHAFT | 1 |
| 08-38 | 87-129 | ネジ | SCREW | 2 |
| 08-39 | 71-528 | リンクピン | PIN | 1 |
| 08-40 | 51-824 | 送り台ガイトプレート | FEED BAR GUIDE PLATE | 1 |
| 08-41 | 84-158 | ネジ | SCREW | 3 |
| 08-42 | 51-825 | 差動送り歯車付台 | DIFFERENTIAL FEED DOG BASE | 1 |
| 08-43 | 71-634 | 送り上下軸 | FEED LIFT SHAFT | 1 |
| 08-44 | 75-512 | カバー | COLLER | 2 |
| 08-45 | 71-566 | 送り上下軸 | FEED LIFT SHAFT | 1 |
| 08-46 | 51-821 | 角ゴマ(前) | FEED LIFT BROCK (FRONT) | 1 |
| 08-47 | 23-531 | フェルト | FELT | 1 |
| 08-48 | 60-5070 | 送りエキセンセット | FEED ECCENTRIC ASS'Y | 1 |
| 08-49 | 23-341 | フェルト | FELT | 1 |
| 08-50 | 23-554 | フェルト | FELT | 8 |
| 08-51 | 23-535 | フェルト | FELT | 2 |
| 08-52 | 23-552 | フェルト | FELT | 2 |
| 08-53 | 87-181 | ネジ | SCREW | 4 |
| 08-54 | 69-531 | 送り台ガイト | FEED ROCKER GUIDE | 1 |
| 08-55 | 50-8260 | 送り台セット | FEED BRACKET SET | 1 |
| 08-56 | 51-849 | 取付付ブラケット | BRACKET | 1 |
| 08-57 | 51-850 | 差動送り台 | DIFFERENTIAL FEED BAR | 1 |
| 08-58 | 50-8270 | 送り台セット | FEED BRACKET SET | 1 |
| 08-59 | 71-766 | ピン | PIN | 1 |

9. 送り機構 (2) FEED MECHANISM (2)



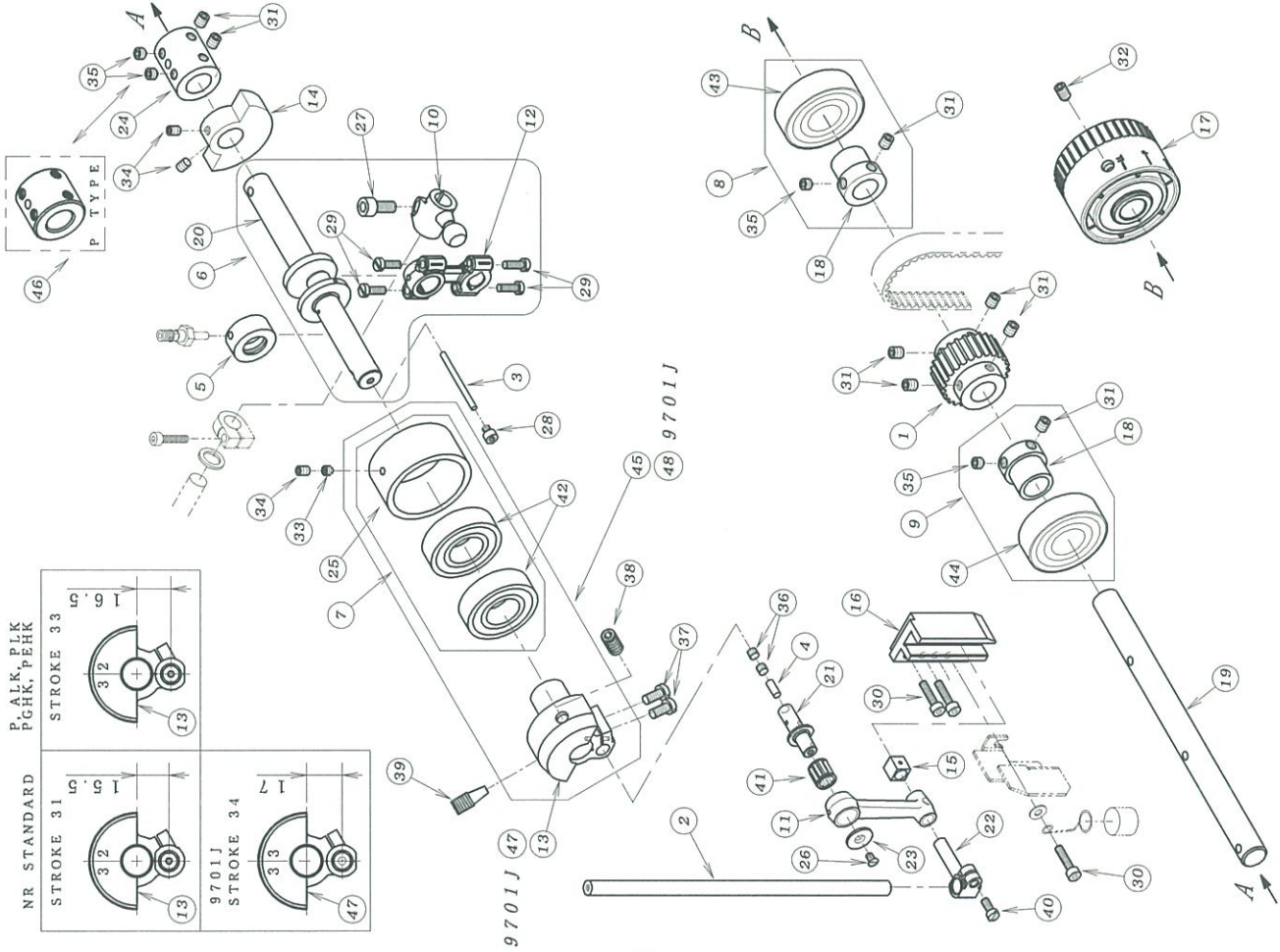
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|------------|---------------------------------|------|
| 09-01 | 87-172 | ネジ | SCREW | 5 |
| 09-02 | 67-504 | 送り上下レバ - | FEED LEVER | 1 |
| 09-03 | 71-431 | ダ ルマピン | PIN | 1 |
| 09-04 | 63-502 | 送り上下連結ロッド | CONNECTING ROD | 1 |
| 09-05 | 93-402 | サークリップ | SNAP RING | 2 |
| 09-06 | 91-412 | ニードル | NEEDLE BEARING | 2 |
| 09-07 | 61-505 | 送りダ ルマエキセン | FEED ECCENTRIC | 1 |
| 09-08 | 84-366 | ネジ | SCREW | 1 |
| 09-09 | 63-503 | 連結ロッド | CONNECTING ROD | 1 |
| 09-10 | 71-518 | リンクピン | PIN | 2 |
| 09-11 | 51-817 | リンク | LINK | 1 |
| 09-12 | 87-233 | ネジ | SCREW | 3 |
| 09-13 | 51-816 | リンク | LINK | 1 |
| 09-14 | 69-515 | ロッド ガイド | CONNECTING ROD GUIDE | 1 |
| 09-15 | 87-129 | ネジ | SCREW | 1 |
| 09-16 | 71-525 | リンクピン | PIN | 1 |
| 09-17 | 67-509 | 送りレバ | FEED LEVER | 1 |
| 09-18 | 87-274 | ネジ | SCREW | 2 |
| 09-19 | 51-808 | ナット | NUT | 1 |
| 09-20 | 51-811 | 調整台 | BRACKET | 1 |
| 09-21 | 71-520 | ピン | PIN | 1 |
| 09-22 | 51-812 | 引張りバネ取付ピン | PIN | 1 |
| 09-23 | 79-527 | 引張りバネ | SPRING | 1 |
| 09-24 | 51-809 | ブッシュ | BUSHING | 1 |
| 09-25 | 23-283 | O-リング | O-RING | 1 |
| 09-26 | 94-222 | オイルシール | OIL SEAL | 1 |
| 09-27 | 51-866 | 調整レバ軸 | CONTROL LEVER SHAFT | 1 |
| 09-28 | 32-281 | スプリングピン | SPRING PIN | 1 |
| 09-29 | 87-181 | ネジ | SCREW | 1 |
| 09-30 | 87-212 | 調整ノブ | ADJUSTING KNOB | 1 |
| 09-31 | 51-815 | ストップピン | PIN | 1 |
| 09-32 | 71-208 | 調整ネジ | SCREW | 1 |
| 09-33 | 51-814 | O-リング | O-RING | 1 |
| 09-34 | 23-192 | ナット | NUT | 1 |
| 09-35 | 51-813 | リンク | CONTROL LINK | 1 |
| 09-36 | 51-810 | 調整レバ | DIFFERENTIAL FEED CONTROL LEVER | 1 |
| 09-37 | 51-865 | ストップ | STOPPER | 1 |
| 09-38 | 51-804 | 目盛板 | FEED GRADUATIONS | 1 |
| 09-39 | 51-801 | スペーサー | COLLAR | 2 |
| 09-40 | 51-805 | ネジ | SCREW | 2 |
| 09-41 | 87-265 | ワッシャー | WASHER | 1 |
| 09-42 | 75-410 | 皿バネ | SPRING | 1 |
| 09-43 | 51-806 | 皿バネ | BOLT | 2 |
| 09-44 | 87-177 | ネジ | SCREW | 1 |
| 09-45 | 51-807 | 調整ネジ | STUD BOLT | 1 |
| 09-46 | 51-818 | 引張りバネ取付ネジ | | 1 |

10. 下糸捌き機構 LOOPER THREAD MECHANISM



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|-----------|--------------------------|------|
| 10-01 | 88-166 | ナット | NUT | 1 |
| 10-02 | 87-239 | ネジ | SCREW | 1 |
| 10-03 | 23-511 | キャップ | CAP | 1 |
| 10-04 | 84-174 | ネジ | SCREW | 1 |
| 10-05 | 79-523 | バネ | SPRING | 1 |
| 10-06 | 43-513 | レバ | LEVER | 1 |
| 10-07 | 87-272 | ネジ | SCREW | 2 |
| 10-08 | 43-506 | ストップ台 | STOP BRACKET | 1 |
| 10-09 | 43-507 | 取付台軸 | SHAFT | 1 |
| 10-10 | 75-105 | カラ | COLLAR | 1 |
| 10-11 | 84-314 | ネジ | SCREW | 1 |
| 10-12 | 84-161 | ネジ | SCREW | 1 |
| 10-13 | 75-224 | ワッシャー | WASHER | 1 |
| 10-14 | 43-538 | 糸案内 | CAST-OFF PLATE | 1 |
| 10-15 | 84-521 | ネジ | SCREW | 1 |
| 10-16 | 43-536 | ブラケット | BRACKET | 1 |
| 10-17 | 43-537 | プレート | PLATE | 1 |
| 10-18 | 84-155 | ネジ | SCREW | 3 |
| 10-19 | 71-207 | ピン | PIN | 1 |
| 10-20 | 79-520 | スプリング | SPRING | 1 |
| 10-21 | 87-083 | ネジ | SCREW | 2 |
| 10-22 | 43-512 | 糸遣(右) | THREAD EYELET (RIGHT) | 1 |
| 10-23 | 43-510 | 糸遣(左) | THREAD EYELET (LEFT) | 1 |
| 10-24 | 49-501 | ハマグリ | LOOPER THREAD TAKEUP CAM | 1 |
| 10-25 | 87-274 | ネジ | SCREW | 2 |
| 10-26 | 75-511 | カラ | COLLAR | 1 |
| 10-27 | 87-104 | ネジ | SCREW | 1 |
| 10-28 | 23-319 | 巻き止めモジュール | LACED WIRE | 1 |
| 10-29 | 43-572 | ハマグリ糸遣左 | THREAD EYELET (LEFT) | 1 |
| 10-30 | 43-573 | ハマグリ糸遣右 | THREAD EYELET (RIGHT) | 1 |

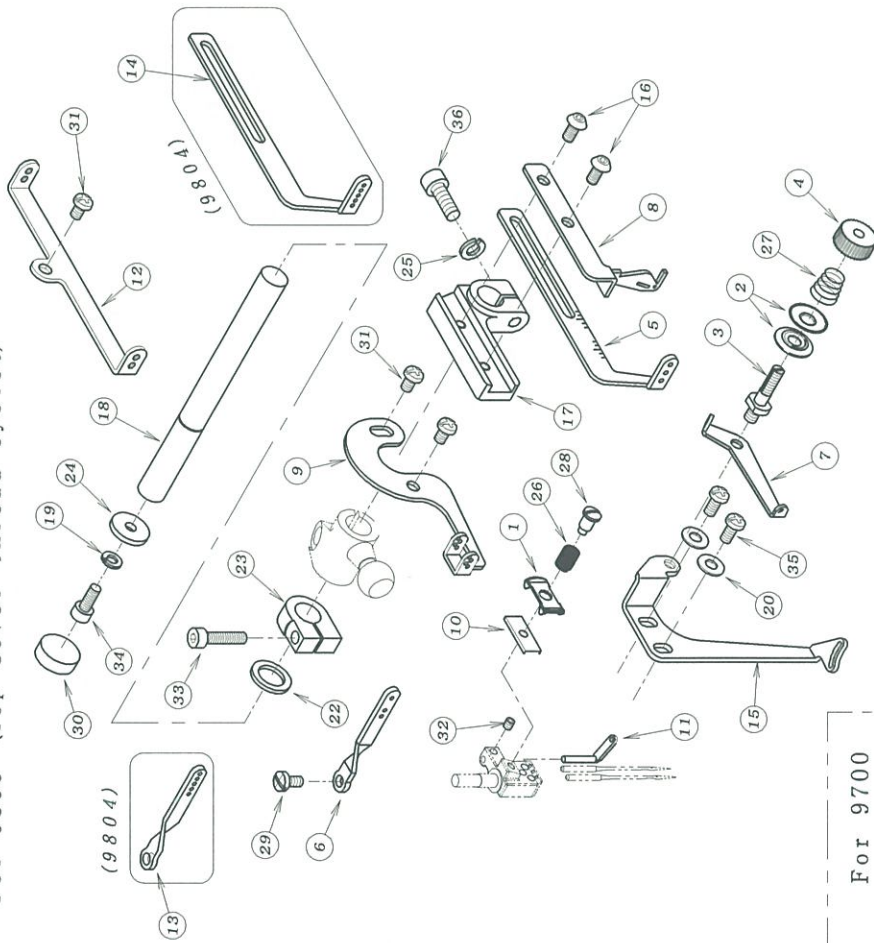
11. 針棒上軸機構 NEEDLE BAR MECHANISM



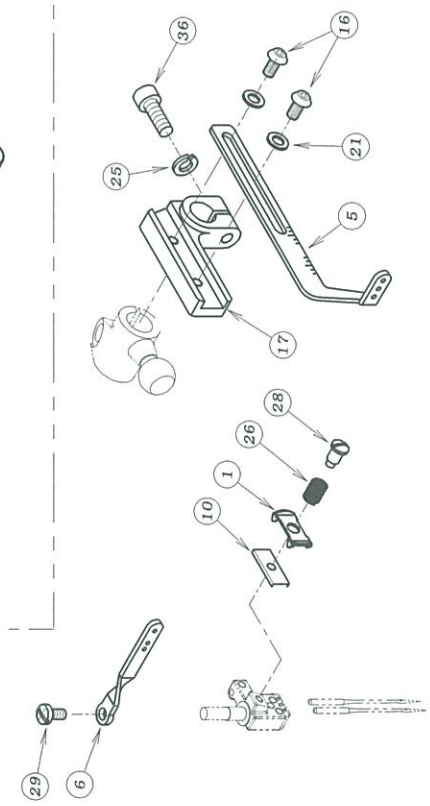
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|--------------------|----------------------------|------|
| 11-01 | 06-238 | タイミンガブリー (L) | TIMING PULLEY | 1 |
| 11-02 | 11-409 | 針棒 | NEEDLE BAR | 1 |
| 11-03 | 23-063 | フェルト | FELT | 1 |
| 11-04 | 23-567 | フェルト | FELT | 1 |
| 11-05 | 35-559 | オイルスリーブ | OIL SLEEVE | 1 |
| 11-06 | 60-5160 | 上軸系側キロッド・セット | CONNECTING ROD ASS'Y | 1 |
| 11-07 | 60-8490 | ベアリングセット | BEARING ASS'Y | 1 |
| 11-08 | 60-8500 | ベアリングセット | BEARING ASS'Y | 1 |
| 11-09 | 60-8510 | ベアリングセット | BEARING ASS'Y | 1 |
| 11-10 | 61-745 | 針系側キロッド玉 | ECCENTRIC LINK | 1 |
| 11-11 | 63-427 | 針棒リンク | LINK | 1 |
| 11-12 | 63-518 | 針系側キロッド | CONNECTING ROD | 1 |
| 11-13 | 66-523 | 針棒リンク (32) | NEEDLE CRANK ASS'Y | 1 |
| 11-14 | 69-142 | クランクモーション | BALANCE WEIGHT | 1 |
| 11-15 | 69-532 | 角コマ | BLOCK | 1 |
| 11-16 | 69-533 | 針棒ガイド | GUIDE | 1 |
| 11-17 | 69-540 | ハンド・ブローリー | HAND WHEEL | 1 |
| 11-18 | 69-544 | ベアリングスリーブ | BEARING SLEEVE | 2 |
| 11-19 | 71-830 | 上軸 (右) | UPPER SHAFT (RIGHT) | 1 |
| 11-20 | 71-836 | 上軸 (左) | UPPER SHAFT (LEFT) | 1 |
| 11-21 | 71-837 | 針棒リンク (0.5) | LINK PIN | 1 |
| 11-22 | 73-504 | 針棒抱き | NEEDLE BAR BRACKET | 1 |
| 11-23 | 75-004 | 針棒リンクエンド・7° レート | WASHER | 1 |
| 11-24 | 75-271 | 下軸ジョイント | JOINT COLLAR | 1 |
| 11-25 | 81-585 | ベアリングハウジング | BEARING HOUSING | 1 |
| 11-26 | 84-463 | ネジ | SCREW M6 x 14 L | 1 |
| 11-27 | 87-057 | 六角穴付きボルト M6 x 14 L | SCREW M6 x 14 L | 1 |
| 11-28 | 87-067 | 六角穴付きボルト | BOLT | 1 |
| 11-29 | 87-097 | ネジ | SCREW | 4 |
| 11-30 | 87-112 | 六角穴付きボルト | BOLT | 3 |
| 11-31 | 87-172 | ネジ | SCREW | 8 |
| 11-32 | 87-241 | ネジ | SCREW | 1 |
| 11-33 | 87-253 | ネジ | SCREW | 1 |
| 11-34 | 87-254 | ネジ | SCREW | 3 |
| 11-35 | 87-259 | ネジ | SCREW | 4 |
| 11-36 | 87-274 | ネジ | SCREW | 2 |
| 11-37 | 87-278 | ネジ | SCREW | 2 |
| 11-38 | 87-368 | ネジ | SCREW | 1 |
| 11-39 | 87-369 | ネジ | SCREW | 1 |
| 11-40 | 87-520 | ネジ | SCREW | 1 |
| 11-41 | 91-264 | ニードル・ベアリング | BEARING | 1 |
| 11-42 | 91-888 | ベアリング | BEARING | 2 |
| 11-43 | 91-894 | ベアリング | BEARING | 1 |
| 11-44 | 91-994 | ベアリング | BEARING | 1 |
| 11-45 | 60-8492 | ベアリング・セット | BEARING ASS'Y | 1 |
| 11-46 | 75-273 | 上軸ジョイント (P用) | JOINT COLLAR (for P model) | 1 |
| 11-47 | 66-525 | 針棒リンク (33) | NEEDLE CRANK ASS'Y | 1 |
| 11-48 | 60-8493 | ベアリング・セット | BEARING ASS'Y | 1 |

12. 上糸捌き機構 NEEDLE THREAD MECHANISM

For 9800 (Top Cover thread eyelet)

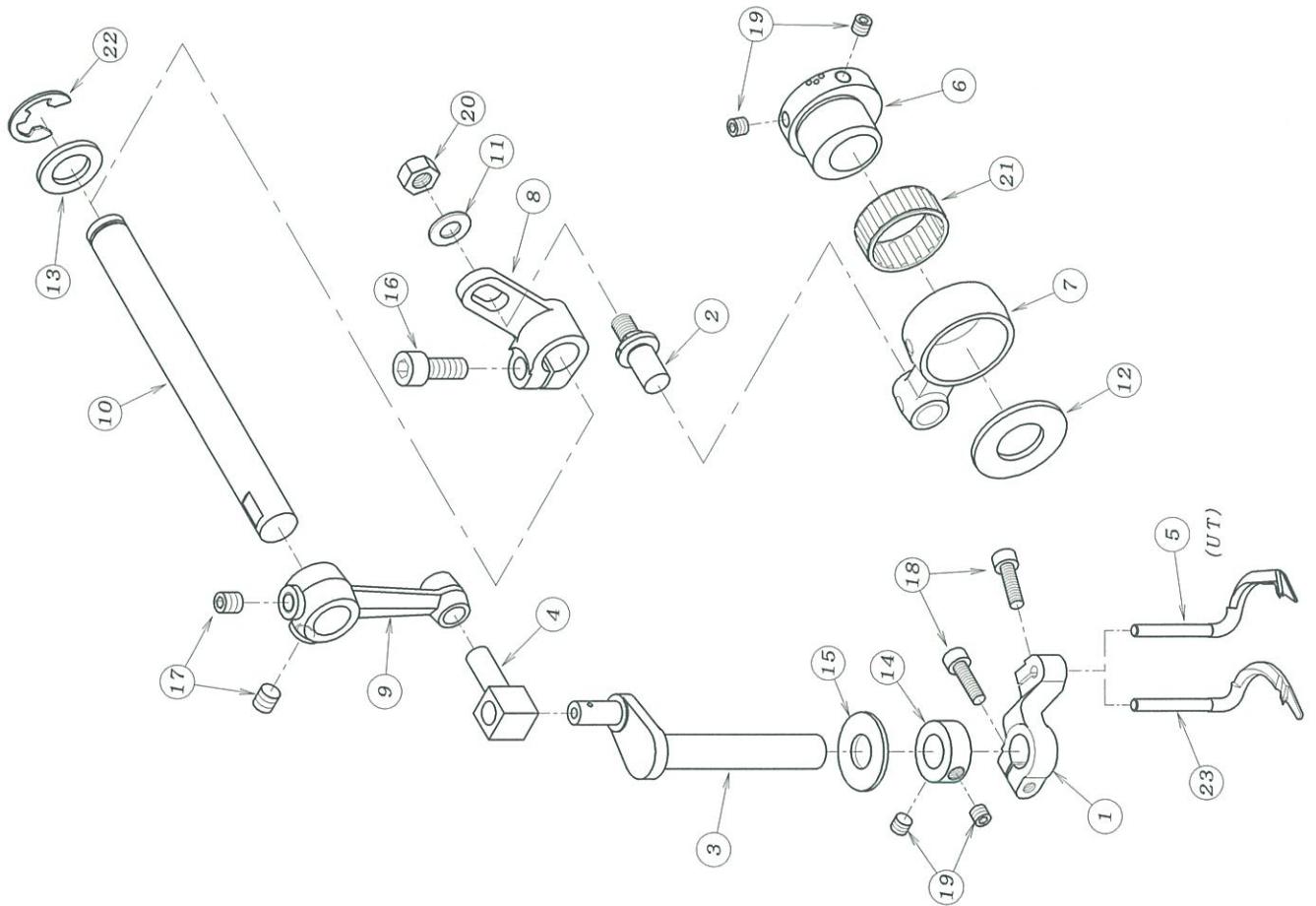


For 9700



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|-------------|-----------------------|------|
| 12-01 | 41-021 | カメ糸道 | THREAD NIPPER | 1 |
| 12-02 | 41-155 | チェンボソ皿 | DISC | 2 |
| 12-03 | 41-504 | 調子棒 | TENSION POST | 1 |
| 12-04 | 43-568 | 小チェンボソナット | NUT | 1 |
| 12-05 | 45-032 | 針糸サバキ | NEEDLE THREAD TAKE-UP | 1 |
| 12-06 | 45-035 | 針糸糸道 | THREAD EYELET | 1 |
| 12-07 | 45-036 | 針糸糸道 | THREAD EYELET | 1 |
| 12-08 | 45-502 | 飾り糸捌き | THREAD TAKE-UP | 1 |
| 12-09 | 45-507 | 飾り糸捌き糸道 | THREAD EYELET | 1 |
| 12-10 | 45-508 | 針棒小調子板 | PLATE | 1 |
| 12-11 | 45-514 | 飾り糸道 | THREAD EYELET | 1 |
| 12-12 | 45-515 | 飾り糸道 | THREAD EYELET | 1 |
| 12-13 | 45-535 | 針棒糸道 | THREAD EYELET | 1 |
| 12-14 | 45-536 | 針糸捌き | NEEDLE THREAD TAKE-UP | 1 |
| 12-15 | 45-540 | 飾り糸案内 | BRACKET | 1 |
| 12-16 | 87-272 | ネジ | SCREW | 2 |
| 12-17 | 67-502 | 針糸捌き取付台 | LEVER | 1 |
| 12-18 | 71-514 | 針糸捌きシャフト | SHAFT | 1 |
| 12-19 | 75-410 | スプリング・ワッシャー | SPRING WASHER | 1 |
| 12-20 | 75-455 | ワッシャー | WASHER | 2 |
| 12-21 | 75-468 | ワッシャー | WASHER | 2 |
| 12-22 | 75-504 | ワッシャー | WASHER | 1 |
| 12-23 | 75-505 | カラー | COLLAR | 1 |
| 12-24 | 75-508 | ワッシャー | WASHER | 1 |
| 12-25 | 75-526 | スプリング・ワッシャー | SPRING WASHER | 1 |
| 12-26 | 79-025 | カメ糸道ハネ | SPRING | 1 |
| 12-27 | 79-534 | ハネ | SPRING | 1 |
| 12-28 | 84-021 | ハネカイト・ネジ | SCREW | 1 |
| 12-29 | 84-374 | ネジ | SCREW | 1 |
| 12-30 | 94-504 | シールキヤップ | PLUG | 1 |
| 12-31 | 87-481 | フレームナベ小ねじ | SCREW | 3 |
| 12-32 | 87-104 | ネジ | SCREW | 1 |
| 12-33 | 87-112 | 六角穴付きボルト | BOLT | 1 |
| 12-34 | 87-113 | 六角穴付きボルト | BOLT | 1 |
| 12-35 | 87-482 | フレームナベ小ねじ | SCREW | 2 |
| 12-36 | 87-224 | 六角穴付きボルト | BOLT | 1 |

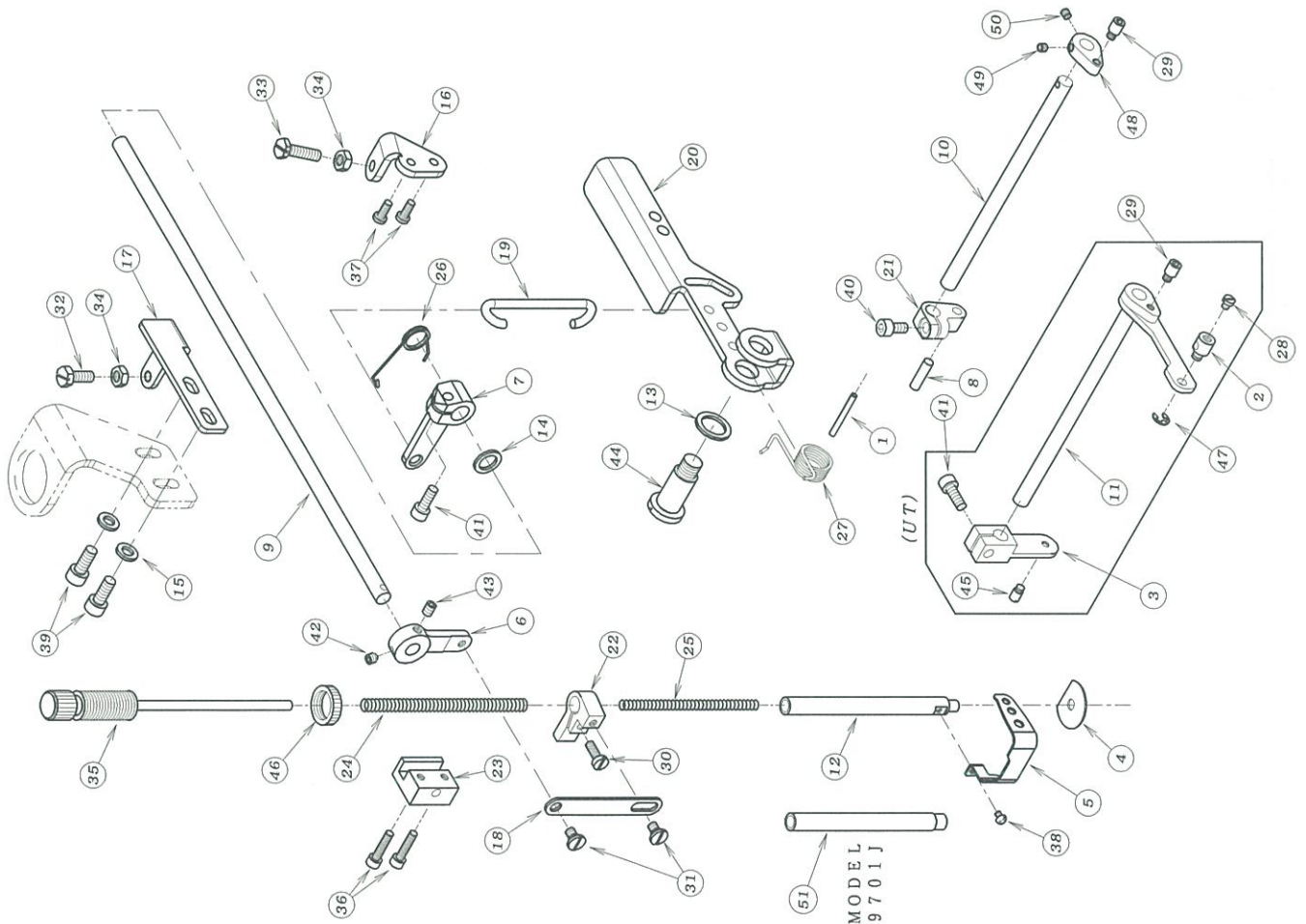
13. 上飾り機構 SPREADER DRIVE MECHANISM



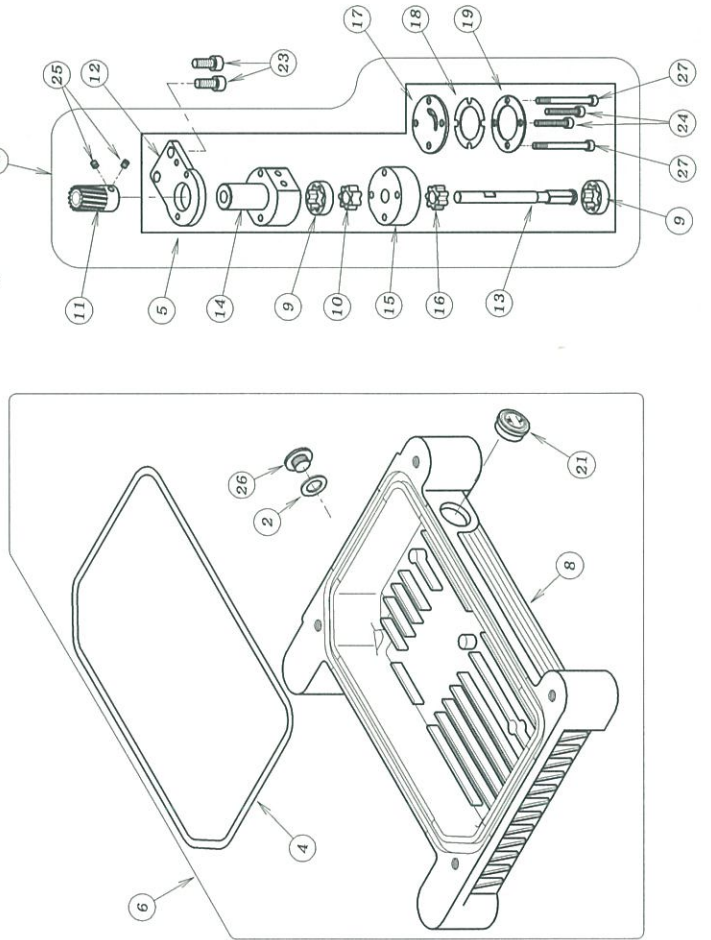
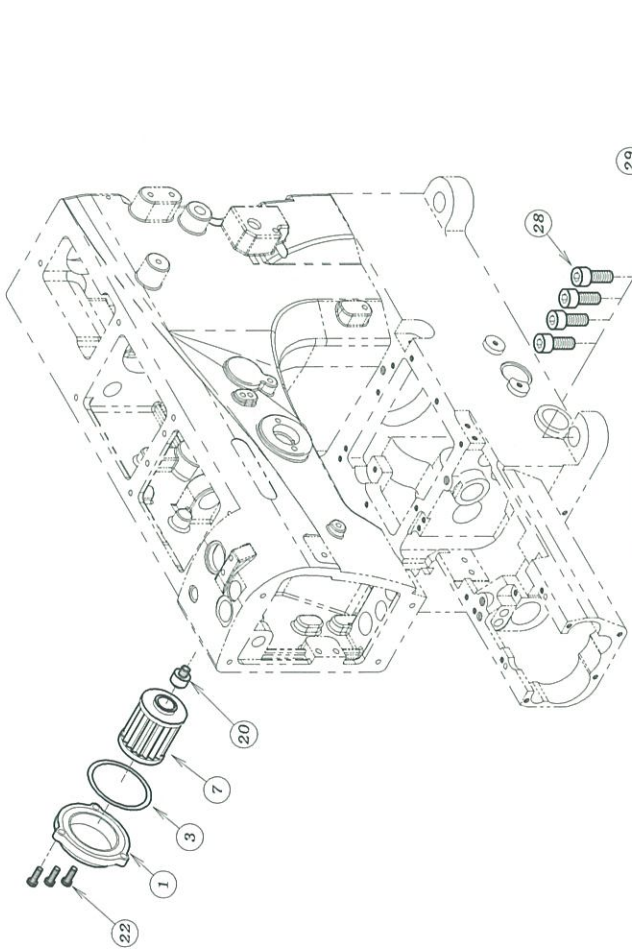
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|--------------|-------------------|------|
| 13-01 | 04-501 | スプロケット -ホルダ- | HOLDER | 1 |
| 13-02 | 04-502 | 覆筋レハ -ピン | PIN | 1 |
| 13-03 | 04-507 | 歯リル -ハ- | CRANK | 1 |
| 13-04 | 04-508 | 運結 -シ- | CONNECTING HOLDER | 1 |
| 13-05 | 19-505 | 上飾リル -ハ- | SPREADER | 1 |
| 13-06 | 61-527 | 上飾リエキセン玉 | ECCENTRIC | 1 |
| 13-07 | 63-500 | 飾リ振りロツト | CONNECTING ROD | 1 |
| 13-08 | 67-510 | 飾リ振りレハ - | LEVER | 1 |
| 13-09 | 67-511 | ル -ハ -振りレハ - | LEVER | 1 |
| 13-10 | 71-513 | 飾リ駆動軸 | SHAFT | 1 |
| 13-11 | 75-452 | ワッシヤ | WASHER | 1 |
| 13-12 | 75-502 | ワッシヤ | WASHER | 1 |
| 13-13 | 75-509 | ワッシヤ | WASHER | 1 |
| 13-14 | 75-537 | カラ- | COLLAR | 1 |
| 13-15 | 75-549 | ワッシヤ | WASHER | 1 |
| 13-16 | 87-171 | 六角穴付きボルト | BOLT | 1 |
| 13-17 | 87-172 | ネジ | SCREW | 2 |
| 13-18 | 87-214 | 六角穴付きボルト | BOLT | 2 |
| 13-19 | 87-274 | ネジ | SCREW | 4 |
| 13-20 | 88-166 | ナツト | NUT | 1 |
| 13-21 | 91-416 | ニ -ト -ルチ -シ | NEEDLE BEARING | 1 |
| 13-22 | 93-202 | E -リング | E-RING | 1 |
| 13-23 | 19-751 | 上飾リル -ハ - | SPREADER | 1 |

14. 押え揚げ機構 PRESSER FOOT MECHANISM

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|--------------|---------------|------------------|-------------|------|
| 14-01105-404 | スプリングピン | SPRING PIN | 1 | |
| 14-02105-853 | 糸締め連結片 | HOLDER | 1 | |
| 14-03105-958 | クランクレバ | LEVER | 1 | |
| 14-04123-018 | 押え棒油止シール | SEAL | 1 | |
| 14-05127-232 | フィンガ'ーガード | FINGER GUARD | 1 | |
| 14-06167-036 | レバ'ー | LEVER | 1 | |
| 14-07167-037 | レバ'ー | LEVER | 1 | |
| 14-08171-203 | 平行ピン | PIN | 1 | |
| 14-09171-278 | 連動シャフト | SHAFT | 1 | |
| 14-10171-270 | 糸締め軸 | SHAFT | 1 | |
| 14-11171-280 | レバ'ーシャフト (UT) | SHAFT | 1 | |
| 14-12171-515 | 押え棒 | PRESSER FOOT BAR | 1 | |
| 14-13175-332 | ワッシャ | WASHER | 1 | |
| 14-14175-504 | ワッシャ | WASHER | 1 | |
| 14-15175-552 | ワッシャ | WASHER | 2 | |
| 14-16177-030 | ブラケット | BRACKET | 1 | |
| 14-17177-033 | 押え棒めしストッパー | STOPPER | 1 | |
| 14-18177-051 | 連結ブ'レート | PLATE | 1 | |
| 14-19177-052 | リンク | LINK | 1 | |
| 14-20177-053 | 押え棒レバ'ー | LEVER | 1 | |
| 14-21177-504 | 押え棒クランク | CRANK | 1 | |
| 14-22177-510 | 押え棒軸 | CLAMP | 1 | |
| 14-23177-511 | 押え棒ガイド | GUIDE | 1 | |
| 14-24179-022 | 押え棒ハ'ネ (上) | SPRING | 1 | |
| 14-25179-023 | 押え棒ハ'ネ (下) | SPRING | 1 | |
| 14-26179-024 | 巻きハ'ネ | SPRING | 1 | |
| 14-27179-423 | 巻きハ'ネ | SPRING | 1 | |
| 14-28184-364 | ネジ | SCREW | 1 | |
| 14-29184-561 | ネジ | SCREW | 2 | |
| 14-30184-566 | ネジ | SCREW | 2 | |
| 14-31184-581 | 段ネジ | SCREW | 2 | |
| 14-32184-818 | 六角ボルト | BOLT | 1 | |
| 14-33184-813 | ネジ | SCREW | 1 | |
| 14-34186-411 | ナット | NUT | 2 | |
| 14-35187-001 | 押え棒軸ネジ | SCREW | 1 | |
| 14-36187-112 | 六角穴付きボルト | BOLT | 2 | |
| 14-37187-483 | ブ'ライナ'ベ小ねじ | SCREW | 2 | |
| 14-38187-476 | ブ'ライナ'ベ小ねじ | SCREW | 2 | |
| 14-39187-171 | 六角穴付きボルト | BOLT | 2 | |
| 14-40187-213 | 六角穴付きボルト | BOLT | 1 | |
| 14-41187-224 | 六角穴付きボルト | BOLT | 2 | |
| 14-42187-253 | ネジ | SCREW | 1 | |
| 14-43187-254 | ネジ | SCREW | 1 | |
| 14-44187-404 | 段付ネジ | SCREW | 1 | |
| 14-45187-423 | 段ネジ | SCREW | 1 | |
| 14-46188-003 | 筒ネジ'ナット | NUT | 1 | |
| 14-47193-205 | エリク'ナット | E-RING | 1 | |
| 14-48177-270 | 糸締めプレート | PLATE | 1 | |
| 14-49187-233 | ネジ | SCREW | 1 | |
| 14-50187-286 | ネジ | SCREW | 1 | |
| 14-51171-038 | 押え棒 | PRESSER FOOT BAR | 1 | |

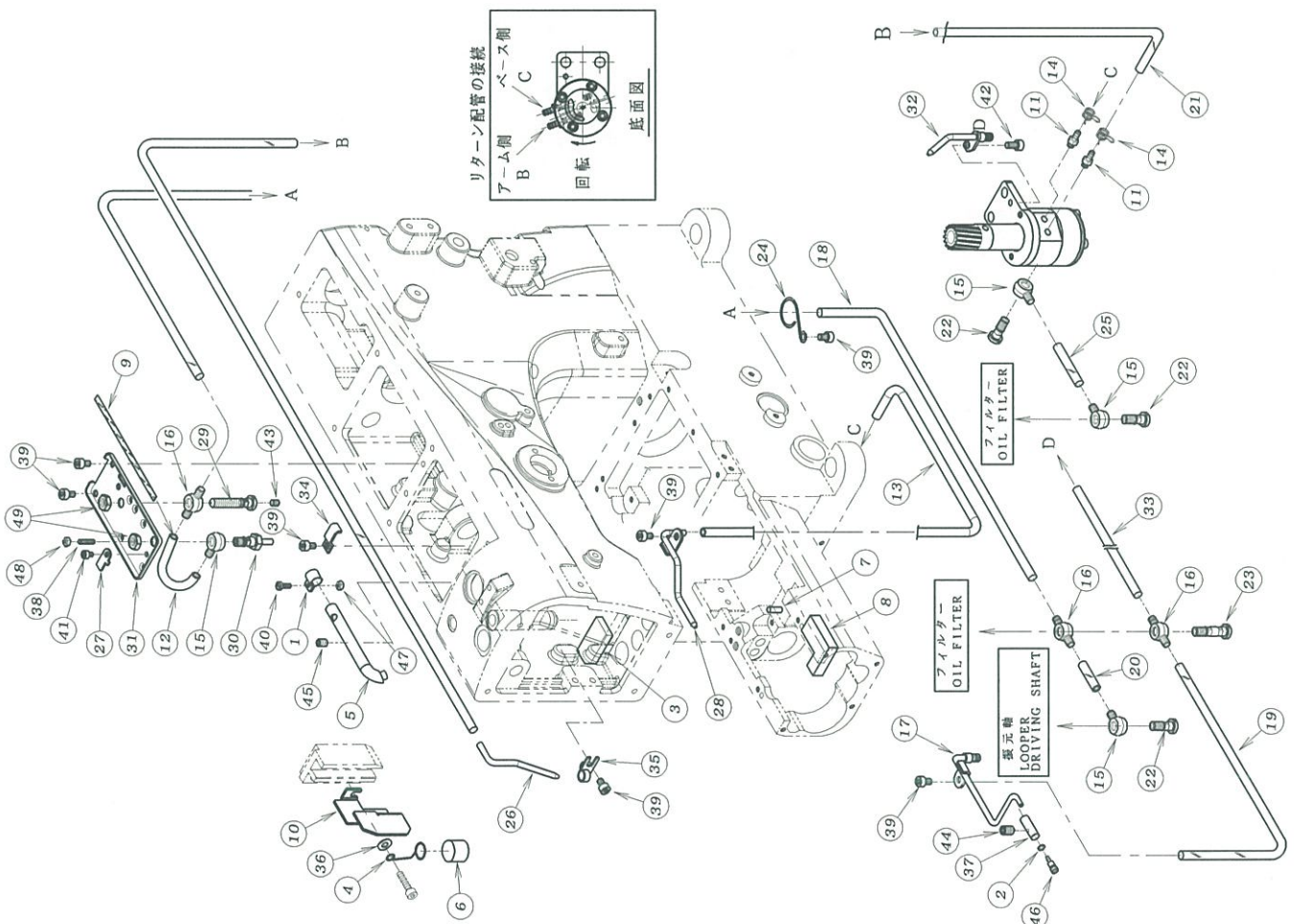


15 給油機構 (1) LUBRICATION MECHANISM (1)



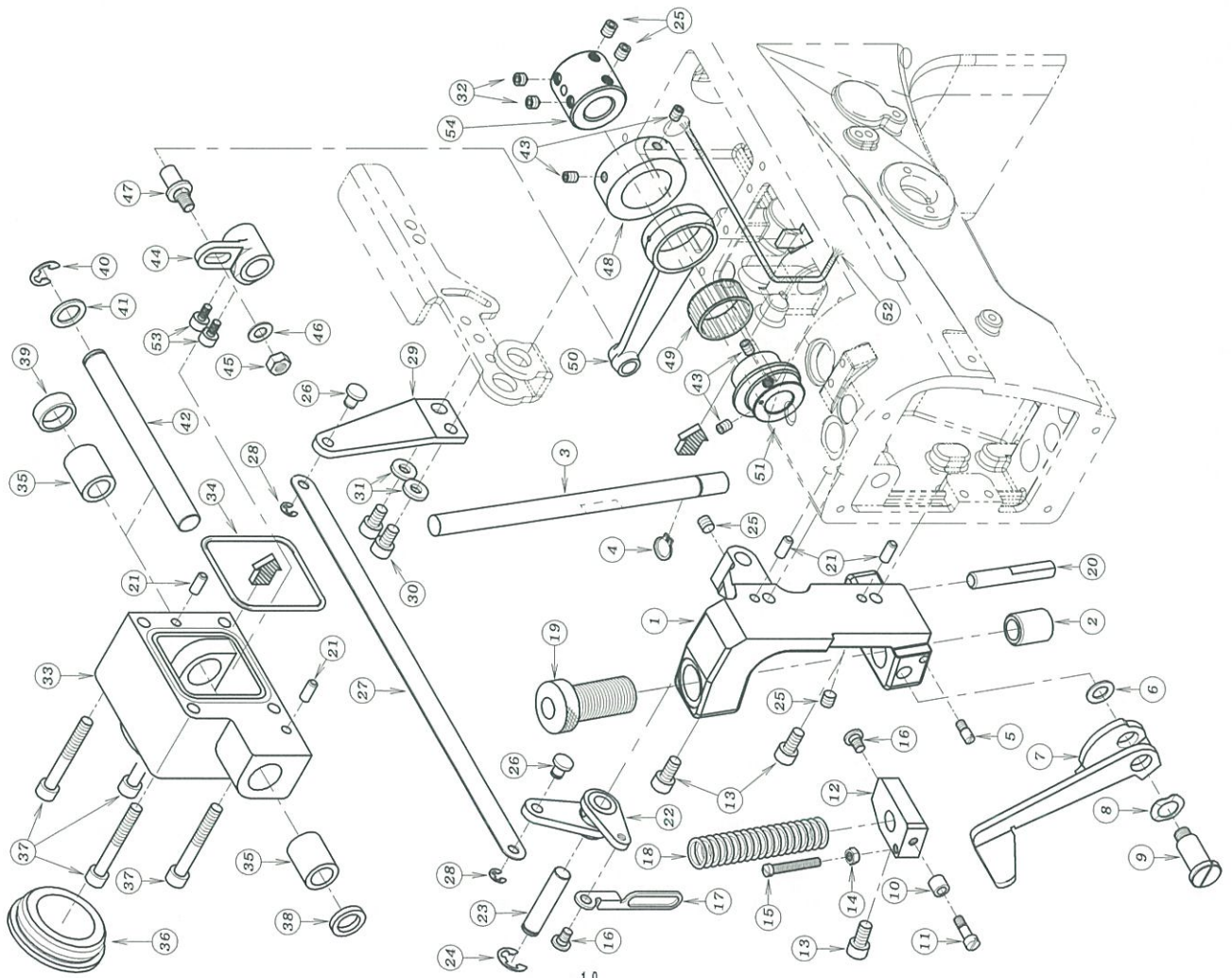
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|--------------|-----------------|------|
| 15-01 | 21-632W | オイルフィルターキャップ | OIL FILTER CAP | 1 |
| 15-02 | 23-304 | シール | SEAL | 1 |
| 15-03 | 23-506 | O-リング | O-RING | 1 |
| 15-04 | 23-508 | O-リング | O-RING | 1 |
| 15-05 | 30-0019 | ポンプセット | PUMP ASS'Y | 1 |
| 15-06 | 30-5070 | オイルタンクセット | OIL TANK ASS'Y | 1 |
| 15-07 | 31-222 | フィルター | OIL FILTER | 1 |
| 15-08 | 31-507 | オイルタンク | OIL RESERVOIR | 1 |
| 15-09 | 31-530 | アウトローター | OUTER ROTER | 2 |
| 15-10 | 31-531 | インローター | INNER ROTER | 1 |
| 15-11 | 31-539 | ポンプギア | PUMP GEAR | 1 |
| 15-12 | 31-549 | ポンプ取付板 | PLATE | 1 |
| 15-13 | 31-542 | ポンプ軸 | PUMP SHAFT | 1 |
| 15-14 | 31-543 | ポンプハウジング(上) | PUMP HOUSING | 1 |
| 15-15 | 31-544 | ポンプハウジング(下) | PUMP HOUSING | 1 |
| 15-16 | 31-545 | インローター | INNER ROTER | 1 |
| 15-17 | 31-546 | ポンプ裏板 | PLATE | 1 |
| 15-18 | 31-547 | ポンプメッシュ | PUMP MESH | 1 |
| 15-19 | 31-548 | ポンプメッシュ止め板 | PLATE | 1 |
| 15-20 | 35-509 | 継手 | JOINT | 1 |
| 15-21 | 39-504 | オイルシグ | OIL SIGHT GAUGE | 1 |
| 15-22 | 87-484 | フランジナベ小ねじ | SCREW | 3 |
| 15-23 | 87-171 | 六角穴付きボルト | BOLT | 2 |
| 15-24 | 87-285 | 六角穴付きボルト | BOLT | 2 |
| 15-25 | 87-286 | ネジ | SCREW | 2 |
| 15-26 | 87-311 | ワタネジ | SCREW | 1 |
| 15-27 | 87-391 | 六角穴付きボルト | BOLT | 2 |
| 15-28 | 87-663 | 六角穴付きボルト | BOLT | 4 |
| 15-29 | 30-0020 | ポンプセット | PUMP ASS'Y | 1 |

16 給油機構 (2) LUBRICATION MECHANISM (2)



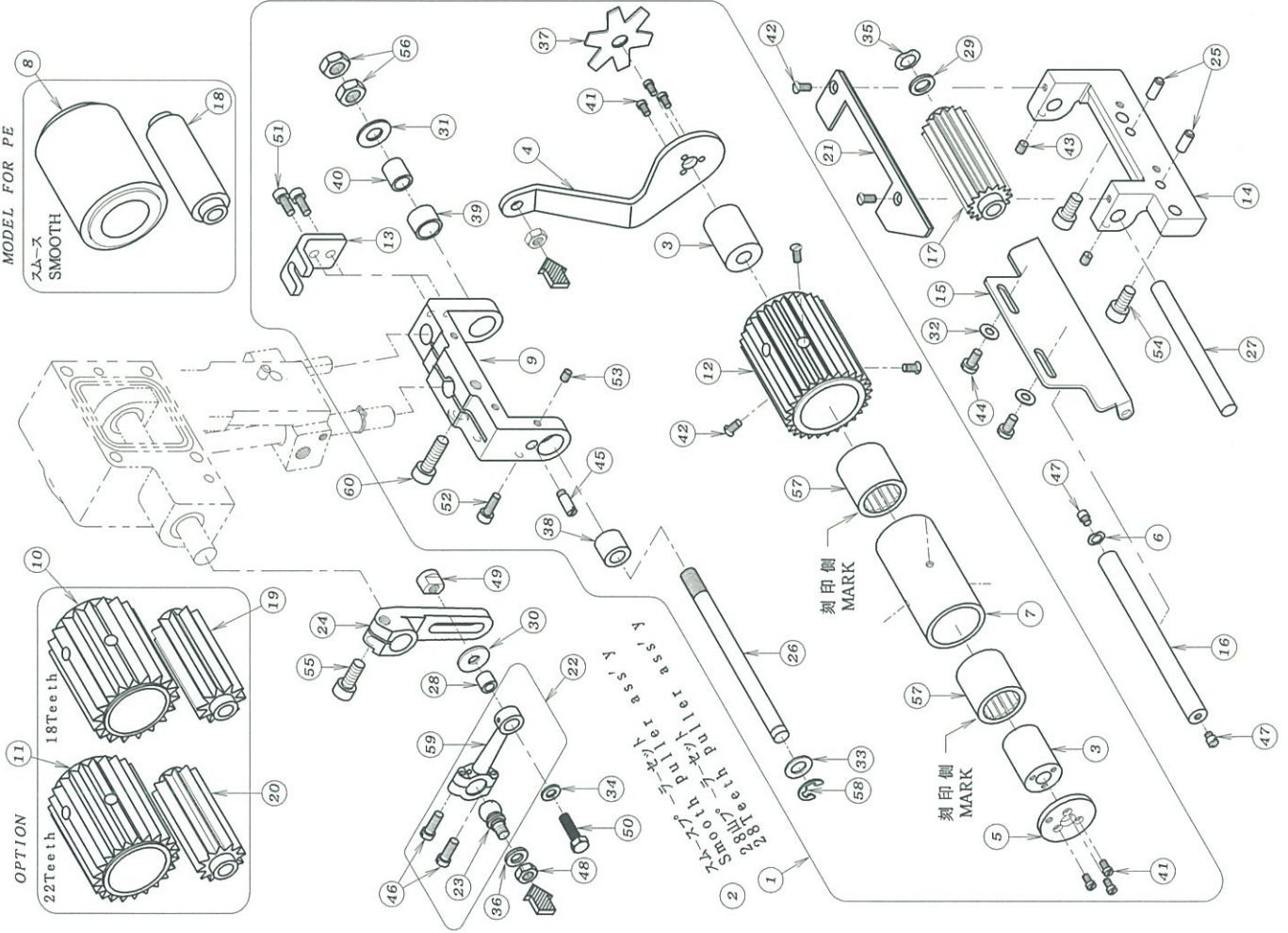
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|----------------|----------------------|------|
| 16-01 | 07-008 | 調節バンド | BAND | 1 |
| 16-02 | 23-373 | O-リング | O-RING | 1 |
| 16-03 | 23-386 | フェルト | FELT | 1 |
| 16-04 | 23-558 | 給油サポ-ト | SUPPORT | 1 |
| 16-05 | 23-560 | 給油ハ-イプ | PIPE | 1 |
| 16-06 | 23-562 | スポンジ | SPONGE | 1 |
| 16-07 | 23-567 | フェルト | FELT | 1 |
| 16-08 | 23-571 | フェルト | FELT | 1 |
| 16-09 | 23-574 | フェルト | FELT | 1 |
| 16-10 | 27-301 | オイルア-エ-ンス | OIL COVER | 1 |
| 16-11 | 31-314 | 継手 | JOINT | 2 |
| 16-12 | 35-005 | ヒ-ニ-ルチューブ 80L | TUBE | 1 |
| 16-13 | 35-318 | ヒ-ニ-ルチューブ | TUBE | 1 |
| 16-14 | 35-413 | 止め金具 | CLAMP | 2 |
| 16-15 | 35-505 | 片口継手 | JOINT | 4 |
| 16-16 | 35-506 | 両口継手 | JOINT | 3 |
| 16-17 | 35-512 | 給油配管 | OIL DISTRIBUTOR | 1 |
| 16-18 | 35-517 | ヒ-ニ-ルチューブ 540L | TUBE | 1 |
| 16-19 | 35-519 | ヒ-ニ-ルチューブ | TUBE | 1 |
| 16-20 | 35-520 | ヒ-ニ-ルチューブ | TUBE | 1 |
| 16-21 | 35-521 | ヒ-ニ-ルチューブ | TUBE | 1 |
| 16-22 | 35-528 | 管継手ボ-ルト | JOINT SCREW | 3 |
| 16-23 | 35-529 | 管継手ボ-ルト | JOINT SCREW | 1 |
| 16-24 | 35-530 | チューブハ-ント | CLAMP | 1 |
| 16-25 | 35-537 | ヒ-ニ-ルチューブ | TUBE | 1 |
| 16-26 | 35-540 | リターン用ハ-イプ | PIPE | 1 |
| 16-27 | 35-551 | 油調節ワ-レット | PLATE | 1 |
| 16-28 | 35-553 | リターン用ハ-イプ | PIPE | 1 |
| 16-29 | 35-556 | オイル噴出し継手 | JOINT SCREW | 1 |
| 16-30 | 35-557 | ノズル | OIL SIGHT TOP NOZZLE | 1 |
| 16-31 | 35-558 | 油受け | OIL RELEASER | 1 |
| 16-32 | 35-560 | ホ-ンプキ-キ給油配管 | PIPE | 1 |
| 16-33 | 35-562 | ヒ-ニ-ルチューブ | TUBE (φ6×φ4, 300L) | 1 |
| 16-34 | 39-139 | ハ-イプサポ-ト | PIPE SUPPORT | 1 |
| 16-35 | 39-501 | 配管止め | CLAMP | 1 |
| 16-36 | 75-455 | ワッシャ | WASHER | 1 |
| 16-37 | 81-371 | 油調節ブッシュ | ADJUSTING BUSHING | 1 |
| 16-38 | 87-072 | 六角穴止めねじ | SCREW | 1 |
| 16-39 | 87-092 | 六角穴付きボルト | BOLT | 7 |
| 16-40 | 87-128 | ネジ | SCREW | 1 |
| 16-41 | 87-142 | ネジ | SCREW | 1 |
| 16-42 | 87-177 | 六角穴付きボルト | BOLT | 1 |
| 16-43 | 87-181 | ネジ | SCREW | 1 |
| 16-44 | 87-241 | ネジ | SCREW | 1 |
| 16-45 | 87-254 | ネジ | SCREW | 1 |
| 16-46 | 87-371 | 油調節ネジ | ADJUSTING SCREW | 1 |
| 16-47 | 88-136 | ナット | NUT | 1 |
| 16-48 | 88-137 | ナット | NUT | 1 |
| 16-49 | 88-165 | 六角ナット | NUT | 2 |

17. 後プーラー機構 (1) REAR PULLER MECHANISM (1)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---------------|----------------------------|------|
| 17-01 | 02-225W | 後プーラーラケット | REAR PULLER BRACKET | 1 |
| 17-02 | 81-133 | ブッシュ | BUSHING | 1 |
| 17-03 | 71-464 | 後プーラーシャフト | SHAFT | 1 |
| 17-04 | 93-261 | リング | E-RING | 1 |
| 17-05 | 84-562 | 段ネジ | SCREW | 1 |
| 17-06 | 75-519 | ワッシャ | WASHER | 1 |
| 17-07 | 02-216 | 手操用金具 | PULLER LIFTING LEVER | 1 |
| 17-08 | 02-112 | 板ワッシャ | CORRUGATED WASHER | 1 |
| 17-09 | 85-671 | ネジ | SCREW | 1 |
| 17-10 | 75-211 | カラー | COLLAR | 1 |
| 17-11 | 84-582 | ネジ | SCREW | 1 |
| 17-12 | 02-217 | 後プーラーシャフト抱き | BRACKET | 1 |
| 17-13 | 87-225 | ネジ | SCREW | 3 |
| 17-14 | 86-311 | ナット | NUT | 1 |
| 17-15 | 84-569 | ネジ | SCREW | 1 |
| 17-16 | 84-581 | ネジ | SCREW | 2 |
| 17-17 | 02-218 | 後プーラー抱き連結プレート | CONNECTING PLATE | 1 |
| 17-18 | 79-640 | バネ | SPRING | 1 |
| 17-19 | 87-754 | 筒ネジ | SCREW | 1 |
| 17-20 | 71-729 | プーラー回り止めピン | GUIDE PIN | 1 |
| 17-21 | 71-208 | ロックピン | PIN | 4 |
| 17-22 | 02-219 | 後プーラー振レバ | LEVER | 1 |
| 17-23 | 71-726 | シャフト | SHAFT | 1 |
| 17-24 | 93-222 | リング | E-RING | 1 |
| 17-25 | 87-172 | ネジ | SCREW | 4 |
| 17-26 | 77-419 | 押換連結ピン | PIN | 2 |
| 17-27 | 77-037 | 押換連結板 | PLATE | 1 |
| 17-28 | 93-205 | リング | E-RING | 2 |
| 17-29 | 77-421 | 押換レバ | LEVER | 1 |
| 17-30 | 87-203 | ネジ | SCREW | 2 |
| 17-31 | 75-458 | ワッシャ | WASHER | 2 |
| 17-32 | 87-259 | ネジ | SCREW | 2 |
| 17-33 | 02-220W | 上プーラー軸ケース | BRACKET | 1 |
| 17-34 | 23-542 | リング | O-RING | 1 |
| 17-35 | 81-559 | 上プーラー軸ブッシュ | BUSHING | 2 |
| 17-36 | 23-541 | ゴム栓 | PLUG | 1 |
| 17-37 | 87-186 | ネジ | SCREW | 4 |
| 17-38 | 94-502 | オイルシール | OIL SEAL | 1 |
| 17-39 | 94-506 | シールキャップ | PLUG | 1 |
| 17-40 | 93-223 | リング | E-RING | 1 |
| 17-41 | 75-187 | ワッシャ | WASHER | 1 |
| 17-42 | 71-727 | 上プーラー駆動軸 | SHAFT | 1 |
| 17-43 | 87-254 | ネジ | SCREW | 4 |
| 17-44 | 67-528 | 上プーラー振レバ | LEVER | 1 |
| 17-45 | 88-166 | ナット | NUT | 1 |
| 17-46 | 75-452 | ワッシャ | WASHER | 1 |
| 17-47 | 04-502 | 押換レバピン | PIN | 1 |
| 17-48 | 75-272 | スラストカラー | COLLAR | 1 |
| 17-49 | 91-413 | ニードルベアリング | NEEDLE BEARING | 1 |
| 17-50 | 63-535 | プーラークランクロッド | CRANK ROD | 1 |
| 17-51 | 61-551 | プーラーエキセン | ECCENTRIC | 1 |
| 17-52 | 23-556 | フェルト | FELT | 1 |
| 17-53 | 87-024 | 六角穴付ナット | BOLT | 2 |
| 17-54 | 75-273 | 上軸ジョイント (P用) | JOINT COLLAR (for P model) | 1 |

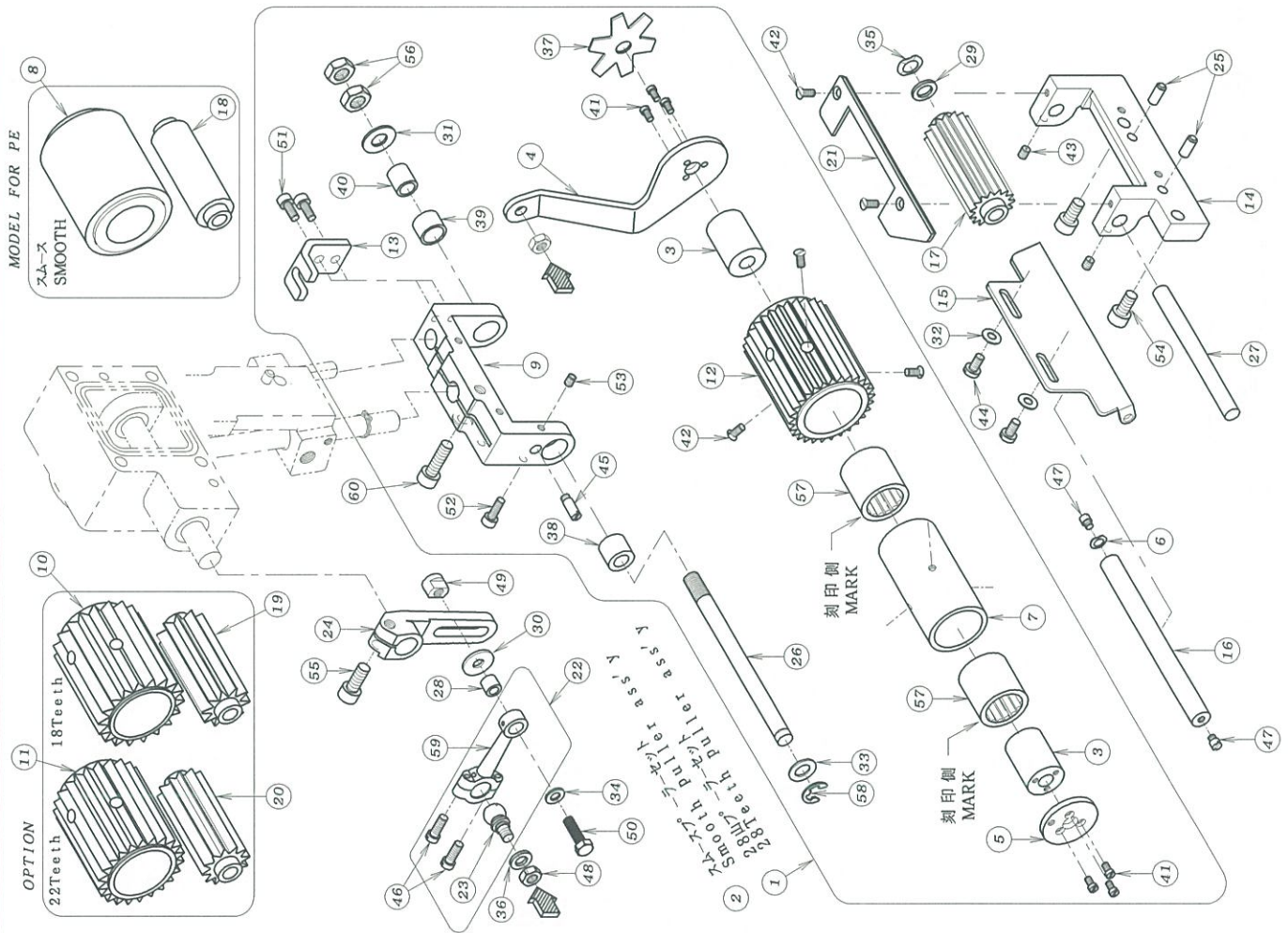
18. 後プーラー機構 (2-1) REAR PULLER MECHANISM (2-1)



| REF. NO. | PART. NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|---------------------|-----------------------------------|------|
| 18-0100 | 3282 | 28山プーラーセット | 28TEETH REAR PULLER ASS'Y | 1 |
| 18-0200 | 2008 | スムースプーラーセット | SMOOTH PULLER ASS'Y | 1 |
| 18-0301 | 1115 | スリーブ | SLEEVE | 2 |
| 18-0402 | 017 | 後プーラー連結板 | CONNECTING PLATE | 1 |
| 18-0502 | 117 | 後プーラーハブ | HUB | 1 |
| 18-0602 | 118 | 被ワッシャ | WASHER | 1 |
| 18-0702 | 123 | リウキエイトラッチ用ハブシフト (中) | CLUTCH HOUSING | 1 |
| 18-0802 | 136 | スムース (中) | REAR PULLER (SMOOTH) | 1 |
| 18-0902 | 158 | 後プーラー台 | REAR PULLER HOLDER | 1 |
| 18-1002 | 176 | 後プーラー上ギヤ-18山 | UPPER REAR PULLER18 | 1 |
| 18-1102 | 177 | 後プーラー上ギヤ-22山 | UPPER REAR PULLER22 | 1 |
| 18-1202 | 178 | 後プーラー上ギヤ-28山 | UPPER REAR PULLER28 | 1 |
| 18-1302 | 250 | 回り止ブッシュ | BRACKET | 1 |
| 18-1402 | 252 | 下プーラー上台 | BRACKET | 1 |
| 18-1502 | 253 | 補助ローラー取付板 | PLATE | 1 |
| 18-1602 | 254 | 補助ローラー | ROLLER | 1 |
| 18-1702 | 255 | 後プーラー下 (11.5山) | LOWER REAR PULLER GEAR (15 TEETH) | 1 |
| 18-1802 | 451 | 下ローラースムース | REAR PULLER (SMOOTH) | 1 |
| 18-1902 | 452 | 下ローラー (10山) | REAR PULLER GEAR (10TEETH) | 1 |
| 18-2002 | 453 | 下ローラー (12山) | REAR PULLER GEAR (12TEETH) | 1 |
| 18-2121 | 715 | 下プーラーガイド | PULLER GUIDE | 1 |
| 18-2260 | 8090 | プーラー連結ロットセット | CONNECTING ROD ASS'Y | 1 |
| 18-2361 | 810 | プーラー連結ロット玉 | CONNECTING ROD BALL | 1 |
| 18-2467 | 529 | 上プーラー駆動レバー | LEVER | 1 |
| 18-2571 | 208 | ノックピン | PIN | 2 |
| 18-2671 | 444 | 後プーラー台シフト (中) | SHAFT | 1 |
| 18-2771 | 728 | 後プーラー下シフト | LOWER REAR PULLER SHAFT | 1 |
| 18-2875 | 247 | 連結メカノローラー | ROLLER | 1 |
| 18-2975 | 356 | ワッシャ | WASHER | 1 |
| 18-3075 | 407 | ワッシャ | WASHER | 1 |
| 18-3175 | 451 | ワッシャ | WASHER | 1 |
| 18-3275 | 455 | ワッシャ | WASHER | 2 |
| 18-3375 | 519 | ワッシャ | WASHER | 1 |
| 18-3475 | 520 | ワッシャ | WASHER | 1 |
| 18-3575 | 528 | 銅鍍金 | WASHER | 1 |
| 18-3675 | 552 | ワッシャ | WASHER | 1 |
| 18-3779 | 551 | プーラー板ハブ | PULLER PLATE SPRING | 1 |
| 18-3881 | 321 | ブッシュ | BUSHING | 1 |
| 18-3981 | 322 | ブッシュ | BUSHING | 1 |
| 18-4081 | 323 | ブッシュ | BUSHING | 1 |
| 18-4184 | 162 | ネジ | SCREW | 6 |
| 18-4284 | 462 | ネジ | SCREW | 5 |
| 18-4384 | 521 | ネジ | SCREW | 2 |
| 18-4484 | 571 | ネジ | SCREW | 2 |
| 18-4584 | 573 | 鉄ネジ | SCREW | 1 |
| 18-4684 | 635 | ネジ | SCREW | 2 |
| 18-4785 | 607 | 鉄ネジ | SCREW | 2 |
| 18-4886 | 411 | ナット | NUT | 1 |
| 18-4988 | 005 | ナット | NUT | 1 |
| 18-5087 | 015 | ネジ | SCREW | 1 |
| 18-5187 | 113 | 六角穴付きボルト | BOLT | 2 |
| 18-5287 | 129 | 六角穴付きボルト | BOLT | 1 |
| 18-5387 | 181 | ネジ | SCREW | 1 |
| 18-5487 | 225 | 六角穴付きボルト | BOLT | 2 |
| 18-5587 | 171 | 六角穴付きボルト | BOLT | 1 |
| 18-5688 | 179 | ナット | NUT | 2 |

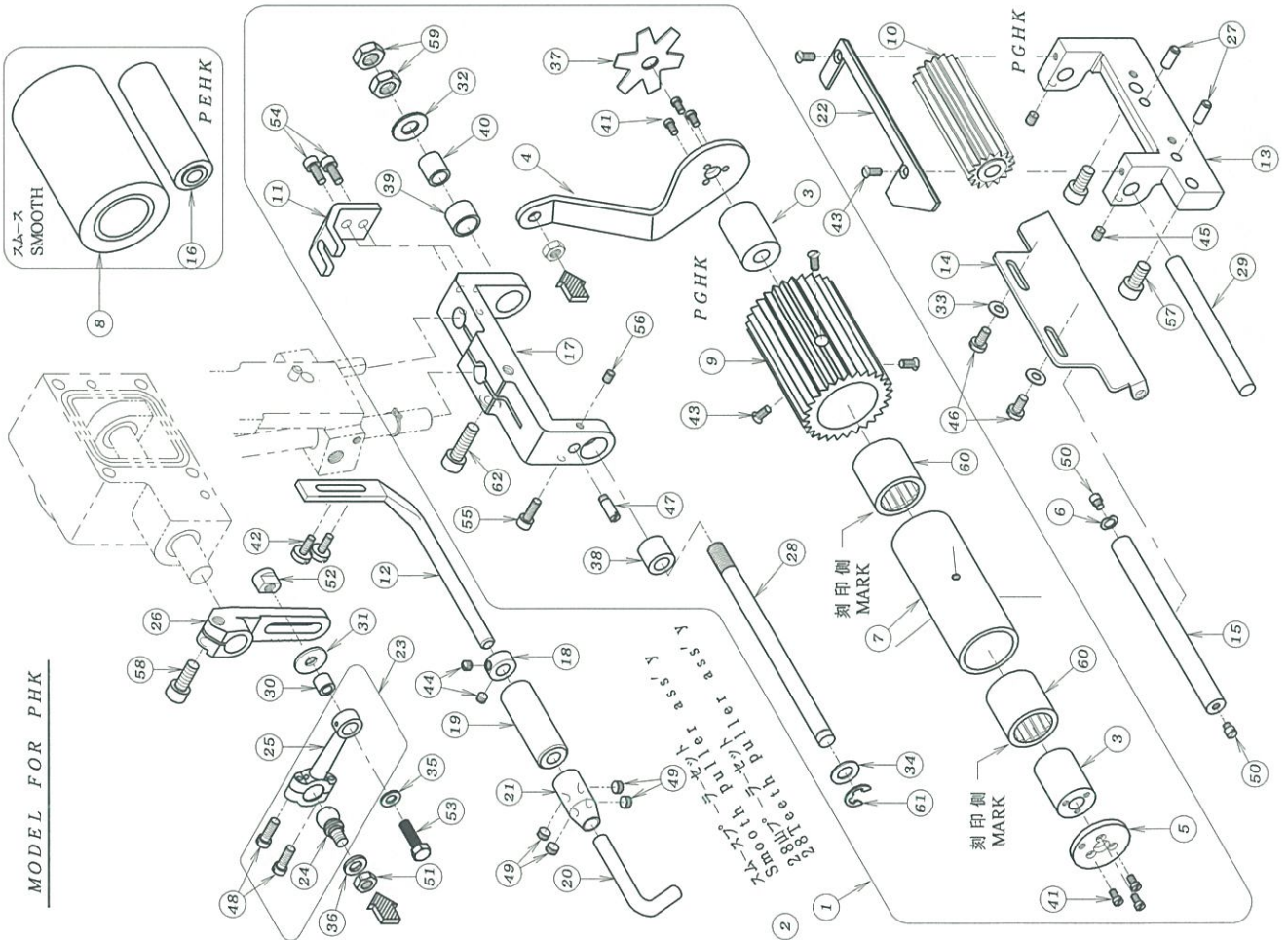
18. 後プーラー機構 (2-2) REAR PULLER MECHANISM (2-2)

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|-----------|-------------|------|
| 18-57 | 91-407 | ワンウェイクラッチ | BEARING | 2 |
| 18-58 | 93-221 | ストップリンク | E-RING | 1 |
| 18-59 | 63-809 | 連結メカネ | BALL JOINT | 1 |
| 18-60 | 87-173 | 六角穴付きボルト | BOLT | 1 |



19. 後プーラー機構 (3-1) REAR PULLER MECHANISM (3-1)

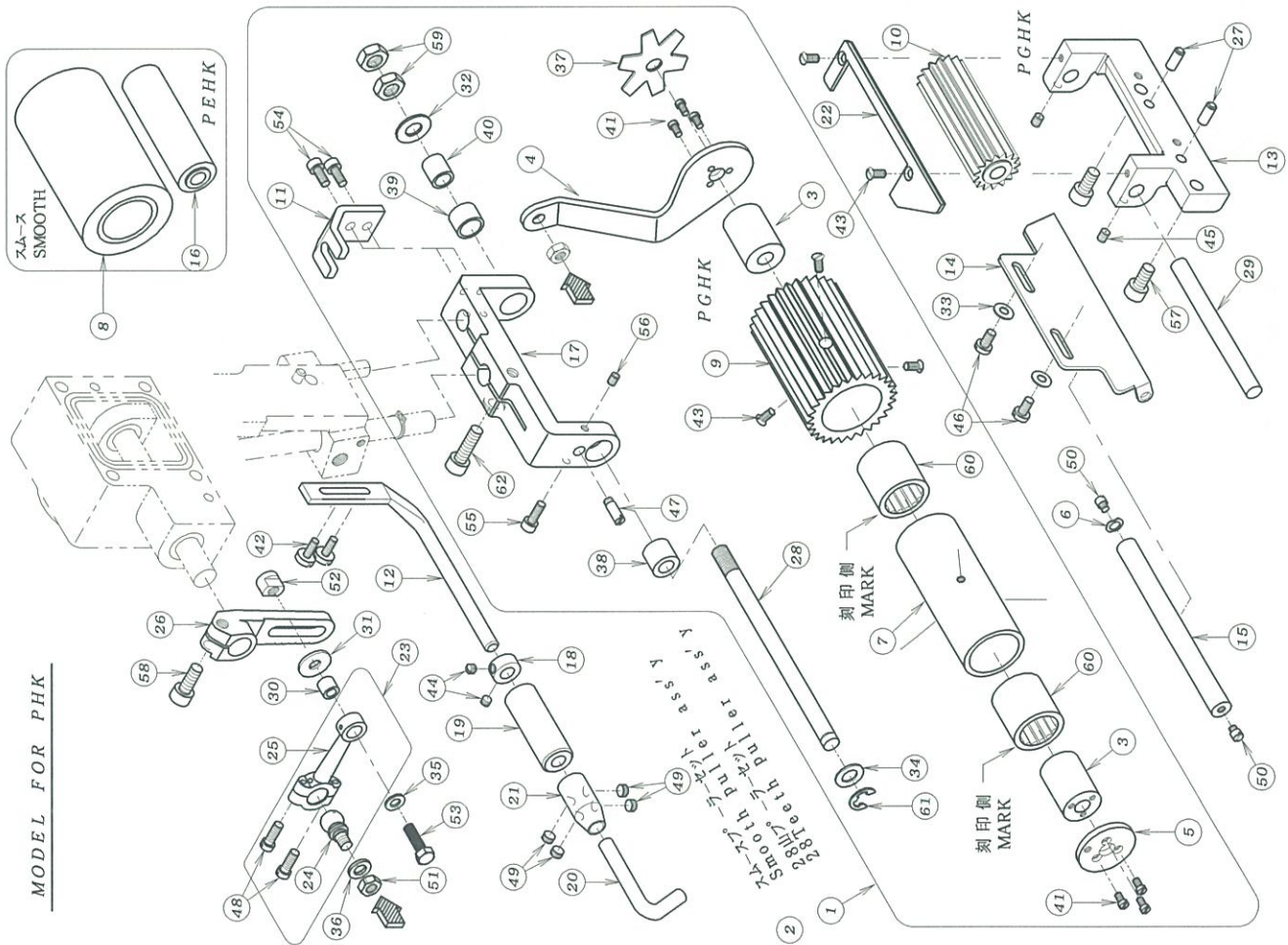
MODEL FOR PHK



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|--------------|------------------|-----------------------------------|-------------------------|------|
| 19-0100-4280 | 28 | 山プーラーセット | TOOTH REAR PULLER ASS'Y | 1 |
| 19-0200-4283 | スムースプーラーセット | SMOOTH PULLER ASS'Y | | 1 |
| 19-0301-115 | スリーブ | SLEEVE | | 2 |
| 19-0402-018 | 後プーラー連結板 | CONNECTING PLATE | | 1 |
| 19-0502-117 | 後プーラーハブ | PLATE | | 1 |
| 19-0602-118 | 減ワッシャ | WASHER | | 1 |
| 19-0702-124 | ワッシャ付子用ハブシヤク (大) | HOUSING | | 1 |
| 19-0802-138 | 後プーラー (コ・ム) | REAR PULLER | | 1 |
| 19-0902-228 | 後プーラー上28山 | REAR PULLER GEAR (28 TEETH) | | 1 |
| 19-1002-245 | 後プーラー下15山 | LOWER REAR PULLER GEAR (15 TEETH) | | 1 |
| 19-1102-246 | 回り止ワッシャ | BRACKET | | 1 |
| 19-1202-247 | コ・ムカイト軸 | ELASTIC TAPE GUIDE SHAFT | | 1 |
| 19-1302-252W | 下プーラー土台 | BRACKET | | 1 |
| 19-1402-253 | 補助ローラー取付板 | PLATE | | 1 |
| 19-1502-254 | 補助ローラー | ROLLER | | 1 |
| 19-1602-455 | 下ローラースムース | REAR PULLER (SMOOTH) | | 1 |
| 19-1702-159 | 後プーラー台 | BRACKET | | 1 |
| 19-1809-917 | カマ | COLLAR | | 1 |
| 19-1909-919 | コ・ムカイトローラー | TAPE GUIDE | | 1 |
| 19-2009-923 | プーラーコ・ムカイト | ELASTIC GUIDE | | 1 |
| 19-2109-984 | コ・ムカイト止めカマ | END COLLAR | | 1 |
| 19-2227-038 | 下プーラーカイト | PULLER GUIDE | | 1 |
| 19-2360-8090 | プーラー連結ロッドセット | CONNECTING ROD ASS'Y | | 1 |
| 19-2461-810 | プーラー連結ロッド玉 | CONNECTING ROD BALL | | 1 |
| 19-2563-809 | プーラー連結ロッド | BALL JOINT | | 1 |
| 19-2667-529 | 上プーラー駆動レバ | LEVER | | 1 |
| 19-2771-208 | ノックピン | PIN | | 2 |
| 19-2871-445 | 後プーラー台シヤフト (大) | SHAFT | | 1 |
| 19-2971-728 | 後プーラー下シヤフト | LOWER REAR PULLER SHAFT | | 1 |
| 19-3075-247 | 連結カマ | ROLLER | | 1 |
| 19-3175-407 | ワッシャ | WASHER | | 1 |
| 19-3275-451 | ワッシャ | WASHER | | 1 |
| 19-3375-455 | ワッシャ | WASHER | | 2 |
| 19-3475-519 | ワッシャ | WASHER | | 1 |
| 19-3575-520 | ワッシャ | WASHER | | 1 |
| 19-3675-552 | ワッシャ | WASHER | | 1 |
| 19-3779-551 | プーラー板ハネ | PULLER PLATE SPRING | | 1 |
| 19-3881-321 | ブッシュ | BUSHING | | 1 |
| 19-3981-322 | ブッシュ | BUSHING | | 1 |
| 19-4081-323 | ブッシュ | BUSHING | | 1 |
| 19-4184-162 | ネジ | SCREW | | 6 |
| 19-4284-368 | ネジ | SCREW | | 2 |
| 19-4384-462 | ネジ | SCREW | | 2 |
| 19-4484-511 | ネジ | SCREW | | 2 |
| 19-4584-521 | ネジ | SCREW | | 5 |
| 19-4684-571 | ネジ | SCREW | | 2 |
| 19-4784-573 | 取ネジ | SCREW | | 2 |
| 19-4884-635 | ネジ | SCREW | | 2 |
| 19-4984-711 | ネジ | SCREW | | 4 |
| 19-5085-607 | 取ネジ | SCREW | | 2 |
| 19-5186-411 | ナット | NUT | | 1 |
| 19-5288-005 | ナット | NUT | | 1 |
| 19-5387-015 | ネジ | SCREW | | 1 |
| 19-5487-113 | 六角穴付きボルト | BOLT | | 2 |
| 19-5587-129 | 六角穴付きボルト | BOLT | | 1 |
| 19-5687-181 | ネジ | SCREW | | 1 |

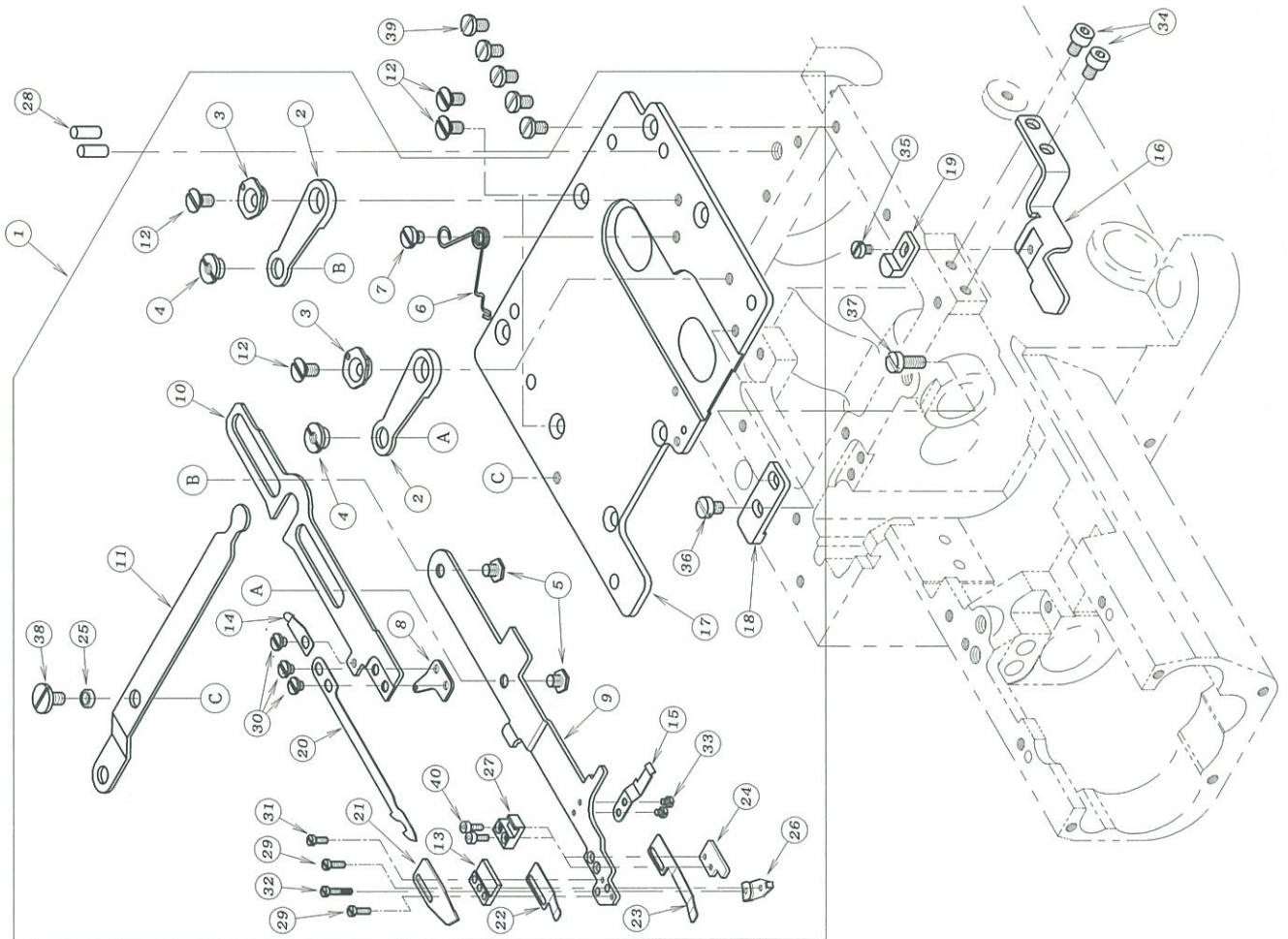
19. 後プーラー機構 (3-2) REAR PULLER MECHANISM (3-2)

MODEL FOR PHK



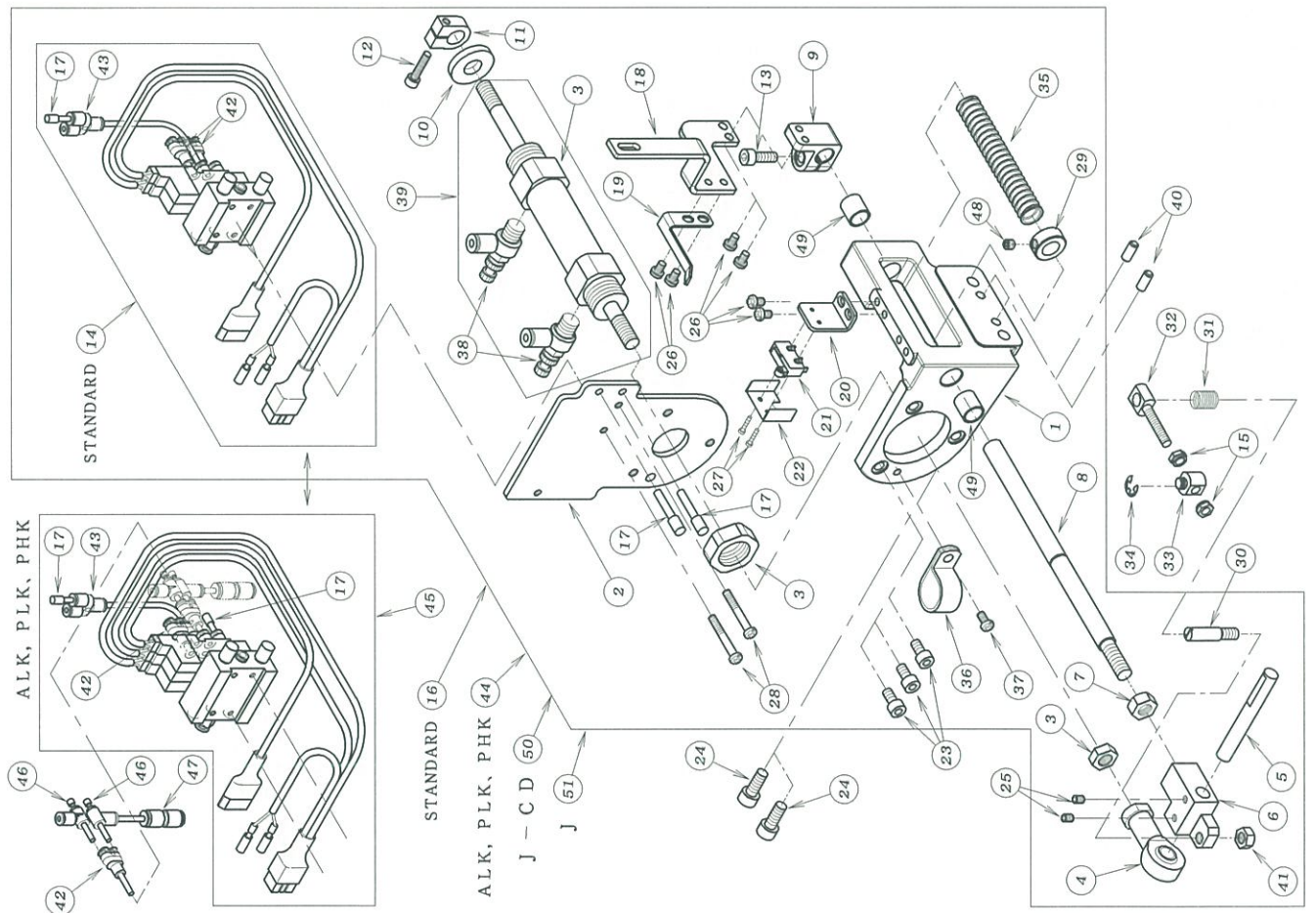
| REF. NO. | PART. NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|----------|-------------|------|
| 19-57 | 187-225 | 六角穴付きボルト | BOLT | 2 |
| 19-58 | 187-171 | 六角穴付きボルト | BOLT | 1 |
| 19-59 | 188-179 | ナット | NUT | 2 |
| 19-60 | 191-407 | ワウエイクラッチ | BEARING | 2 |
| 19-61 | 193-221 | ストップリンク | E-RING | 1 |
| 19-62 | 187-173 | 六角穴付きボルト | BOLT | 1 |

20. 下糸切り装置 (UT) KNIFE MECHANISM (UT)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---------------------|----------------------|------|
| 20-01 | 100-8031 | マセット | THREAD TRIM ASSEMBLY | 1 |
| 20-02 | 05-051 | マスカ'イト'レハ' - | LEVER | 2 |
| 20-03 | 05-052 | マスカ'イト'レハ' - 調節リング' | RING | 2 |
| 20-04 | 05-053 | リング' ナット | NUT | 2 |
| 20-05 | 05-054 | ネジ' | SCREW | 2 |
| 20-06 | 05-055 | 固定マス台ハ'ネ | SPRING | 1 |
| 07-07 | 105-056 | 平頭付段ネジ' | SCREW | 1 |
| 20-08 | 05-057 | ルーハ' - 糸締め糸道 | THREAD EYELET | 1 |
| 20-09 | 05-058 | 固定マス土台 | UPPER KNIFE HOLDER | 1 |
| 20-10 | 05-059 | 可動マス土台 | LOWER KNIFE HOLDER | 1 |
| 20-11 | 105-060 | 駆動レハ' - | LEVER | 1 |
| 20-12 | 05-061 | ネジ' | SCREW | 4 |
| 20-13 | 05-062 | 可動マスカ'イト' | GUIDE | 1 |
| 20-14 | 05-063 | 固定マス台補助ハ'ネ | SPRING | 1 |
| 20-15 | 05-064 | 固定マス台支エハ'ネ | SPRING | 1 |
| 20-16 | 05-065 | カ'イト'フ'ラケット | GUIDE BRACKET | 1 |
| 20-17 | 05-066 | マス土台フ'レート | BASE PLATE | 1 |
| 20-18 | 05-067 | 固定マス台ストツハ' - | STOPPER | 1 |
| 20-19 | 05-068 | 可動マス台カ'イト' | GUIDE | 1 |
| 20-20 | 05-658 | 可動マス | LOWER KNIFE | 1 |
| 20-21 | 05-812 | 固定マス | UPPER KNIFE | 1 |
| 20-22 | 05-794 | 裏ハ'ネ (上) | LEAF SPRING (UPPER) | 1 |
| 20-23 | 05-799 | 裏ハ'ネ (下) | LEAF SPRING (LOWER) | 1 |
| 20-24 | 05-822 | フ'ラケット | BRACKET | 1 |
| 20-25 | 05-882 | カ'イト'ローラ' (小) | GUIDE ROLLER | 1 |
| 20-26 | 05-894 | 裏ハ'ネ調節板 | PLATE | 1 |
| 20-27 | 05-898 | 可動マスカ'イト' | GUIDE | 1 |
| 20-28 | 71-253 | ノックピ'ン | PIN | 2 |
| 20-29 | 87-075 | ネジ' | SCREW | 2 |
| 20-30 | 87-077 | ネジ' | SCREW | 3 |
| 20-31 | 87-078 | ネジ' | SCREW | 1 |
| 20-32 | 87-079 | ネジ' | SCREW | 1 |
| 20-33 | 87-091 | ネジ' | SCREW | 2 |
| 20-34 | 87-092 | 六角穴付きボルト | BOLT | 2 |
| 20-35 | 87-095 | ネジ' | SCREW | 1 |
| 20-36 | 87-098 | ネジ' | SCREW | 1 |
| 20-37 | 87-145 | ネジ' | SCREW | 1 |
| 20-38 | 87-414 | ネジ' | SCREW | 1 |
| 20-39 | 87-415 | ネジ' | SCREW | 5 |
| 20-40 | 87-398 | 六角穴付きボ'ルト | BOLT | 2 |

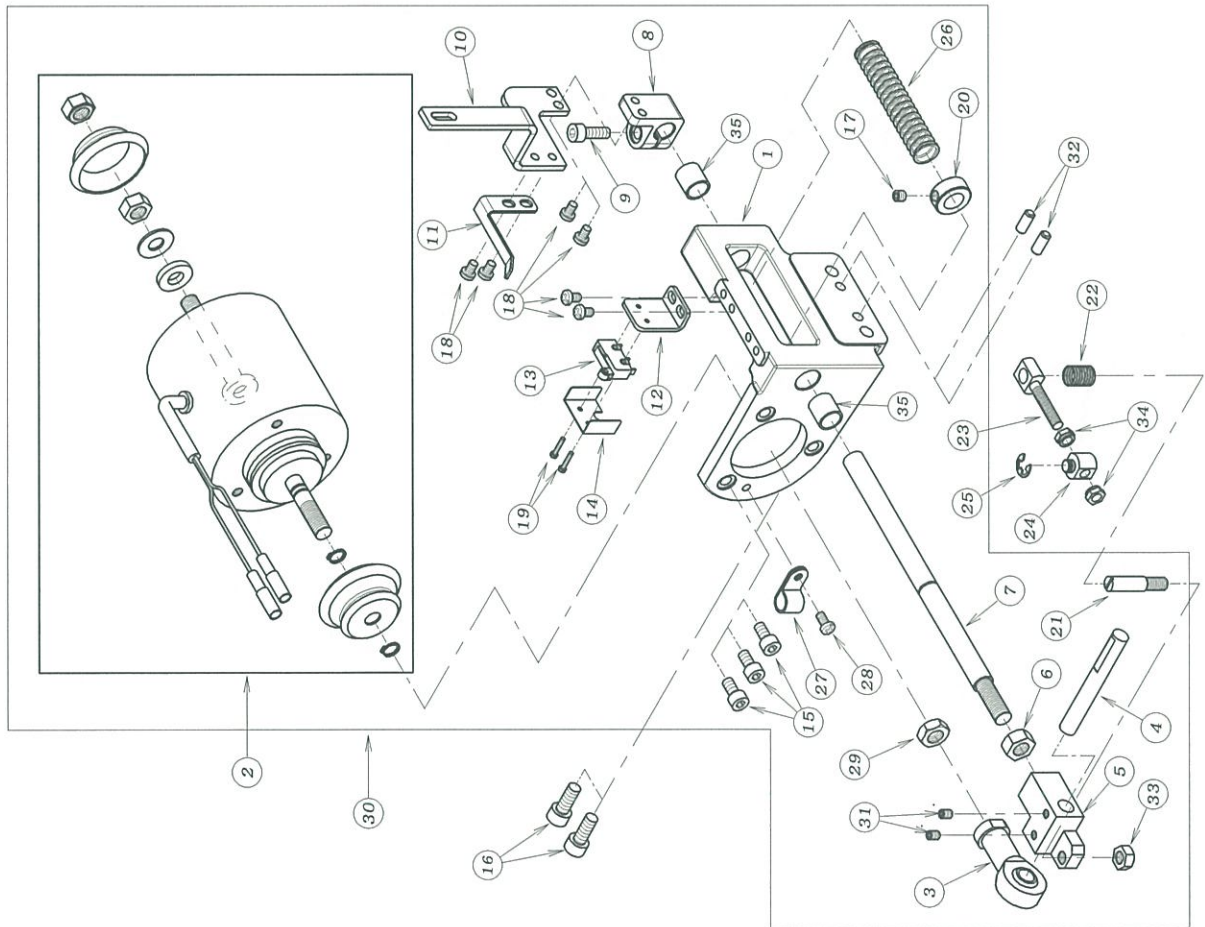
21. UT調整装置(エア式) THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Qty |
|----------|----------|----------------|-------------------------|-----|
| 21-01 | 05-901 | シリンダ - 取付ブラケット | BRACKET | 1 |
| 21-02 | 05-646 | シリンダ - 取付板 | PLATE | 1 |
| 21-03 | 05-205 | メス調整シリンダ - | CYLINDER | 1 |
| 21-04 | 05-842 | ロッドエンド | ROD | 1 |
| 21-05 | 05-904 | 調整シャフト | SHAFT | 1 |
| 21-06 | 05-828 | 調整ブラケット | BRACKET | 1 |
| 21-07 | 88-176 | ナット | NUT | 1 |
| 21-08 | 05-905 | 戻しシャフト | SHAFT | 1 |
| 21-09 | 05-927 | レバ - 取付台 | BRACKET | 1 |
| 21-10 | 05-907 | クッションゴム | SHOCK RUBBER | 1 |
| 21-11 | 05-220 | クッションストッパー | COLLAR | 1 |
| 21-12 | 87-245 | ネジ | SCREW | 1 |
| 21-13 | 87-245 | 六角穴付きボルト | BOLT | 1 |
| 21-14 | 05-647 | 調整弁2連セット | SOLENOID VALVE ASSEMBLY | 1 |
| 21-15 | 88-004 | 調整弁1連セット | SOLENOID VALVE ASSEMBLY | 1 |
| 21-16 | 00-6114 | UT調整装置 | AIR CYLINDER ASSEMBLY | 2 |
| 21-17 | 06-597 | プラグ | PLUG | 3 |
| 21-18 | 05-226 | 糸巻調整プレート | PLATE | 1 |
| 21-19 | 05-294 | 糸巻調整ガイド | SWITCH PLATE | 1 |
| 21-20 | 05-910 | スイッチ取付板 | PLATE | 1 |
| 21-21 | 05-911 | スイッチ | SWITCH | 1 |
| 21-22 | 05-912 | スイッチカバー | COVER | 1 |
| 21-23 | 87-213 | ネジ | SCREW | 3 |
| 21-24 | 87-171 | ネジ | SCREW | 2 |
| 21-25 | 87-181 | ネジ | SCREW | 2 |
| 21-26 | 87-481 | プライマリアスレッド | SCREW | 2 |
| 21-27 | 87-282 | 十字穴付バネ小ネジ | SCREW | 6 |
| 21-28 | 87-488 | プライマリアスレッド | SCREW | 2 |
| 21-29 | 75-537 | カラー | COLLAR | 1 |
| 21-30 | 05-829 | 連結ピン(2) | PIN | 1 |
| 21-31 | 79-540 | 連結ピン用スプリング | SPRING | 1 |
| 21-32 | 05-913 | 連結ネジ | SCREW | 1 |
| 21-33 | 05-045 | 連結ピン | PIN | 1 |
| 21-34 | 93-211 | Eリング | E RING | 1 |
| 21-35 | 79-644 | 戻しバネ | SPRING | 1 |
| 21-36 | 06-927 | ナイロンクリップ | CORD CLAMP | 1 |
| 21-37 | 87-482 | プライマリアスレッド | SCREW | 1 |
| 21-38 | 06-580 | スピードコントロール | SPEED CONTROLLER | 1 |
| 21-39 | 00-6083 | メス調整シリンダ - セット | CYLINDER ASS'Y | 2 |
| 21-40 | 71-208 | ロックピン | PIN | 2 |
| 21-41 | 88-166 | ナット | NUT | 1 |
| 21-42 | 05-484 | フランジユニオンワイ | JOINT | 2~3 |
| 21-43 | 05-482 | ユニオンワイ | JOINT | 1 |
| 21-44 | 00-6121 | UT調整装置 | AIR CYLINDER ASSEMBLY | 1 |
| 21-45 | 05-648 | 調整弁3連セット | SOLENOID VALVE ASSEMBLY | 1 |
| 21-46 | 05-224 | スピードコントロール | SPEED CONTROLLER | 2 |
| 21-47 | 05-224 | 異径ストローク | JOINT | 1 |
| 21-48 | 87-274 | ネジ | SCREW | 1 |
| 21-49 | 81-588 | ワッシャー | BUSHING | 1 |
| 21-50 | 00-6140 | UT調整装置 | AIR CYLINDER ASSEMBLY | 1 |
| 21-51 | 00-6123 | UT調整装置 | AIR CYLINDER ASSEMBLY | 1 |

2.2. UT駆動装置 (電気式)

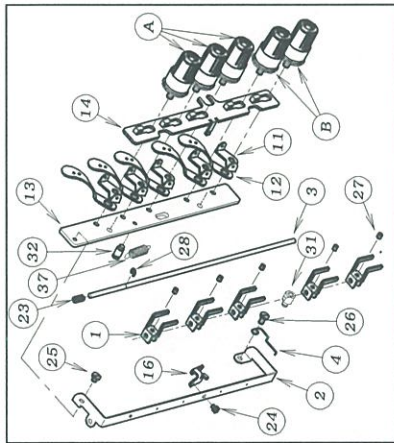
THREAD TRIMMING MECHANISM (ELECTRIC TYPE)



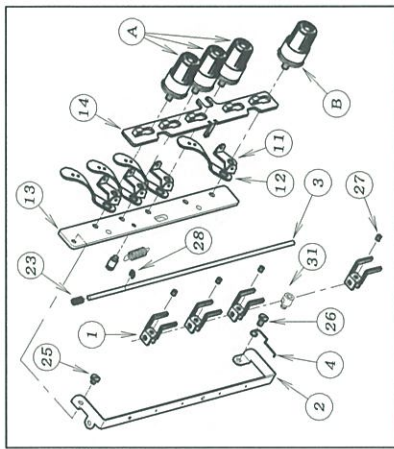
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|-------------|-------------------|------|
| 22-01 | 05-901 | シリンダ-取付ラケット | BRACKET | 1 |
| 22-02 | 06-336 | メス用ソレノイド* | SOLENOID | 1 |
| 22-03 | 05-842 | ロッドエンド* | ROD | 1 |
| 22-04 | 05-904 | 連結シャフト | SHAFT | 1 |
| 22-05 | 05-828 | 連結ラケット | BRACKET | 1 |
| 22-06 | 88-176 | ナット | NUT | 1 |
| 22-07 | 05-905 | 戻しシャフト | SHAFT | 1 |
| 22-08 | 05-927 | レバ-取付台 | BRACKET | 1 |
| 22-09 | 87-245 | 六角付きボルト | BOLT | 1 |
| 22-10 | 05-226 | 糸鋸刃継ぎプレート | PLATE | 1 |
| 22-11 | 05-294 | スイッチガード* | SWITCH PLATE | 1 |
| 22-12 | 05-910 | スイッチ取付板 | PLATE | 1 |
| 22-13 | 05-911 | スイッチ | SWITCH | 1 |
| 22-14 | 05-912 | スイッチカバー* | COVER | 1 |
| 22-15 | 87-213 | ネジ | SCREW | 3 |
| 22-16 | 87-171 | ネジ | SCREW | 2 |
| 22-17 | 87-274 | ネジ | SCREW | 1 |
| 22-18 | 87-481 | プラマイナボリねじ | SCREW | 1 |
| 22-19 | 87-282 | 十字取付ネジ 小ネジ | SCREW | 2 |
| 22-20 | 75-537 | カラー | COLLAR | 1 |
| 22-21 | 05-829 | 連結ピン (2) | PIN | 1 |
| 22-22 | 79-540 | 連結ピン用スプリング* | SPRING | 1 |
| 22-23 | 05-913 | 連結ネジ | SCREW | 1 |
| 22-24 | 05-045 | 連結ピン (1) | PIN | 1 |
| 22-25 | 93-211 | Eリング* | E RING | 1 |
| 22-26 | 79-642 | 戻しバネ | SPRING | 1 |
| 22-27 | 06-928 | ナイロンクリップ 7N | CODE CLAMP | 1 |
| 22-28 | 87-482 | プラマイナボリねじ | SCREW | 1 |
| 22-29 | 88-179 | ナット | NUT | 1 |
| 22-30 | 00-6115 | UT電機式下糸鋸装置 | SOLENOID ASSEMBLY | 1 |
| 22-31 | 87-181 | ネジ | SCREW | 2 |
| 22-32 | 71-208 | ノックピン | PIN | 2 |
| 22-33 | 88-166 | ナット | NUT | 1 |
| 22-34 | 88-004 | 調節ナット | NUT | 2 |
| 22-35 | 81-588 | ブッシュ | BUSHING | 2 |

23. 糸調子機構 (UT) THREAD TENSION MECHANISM (UT)

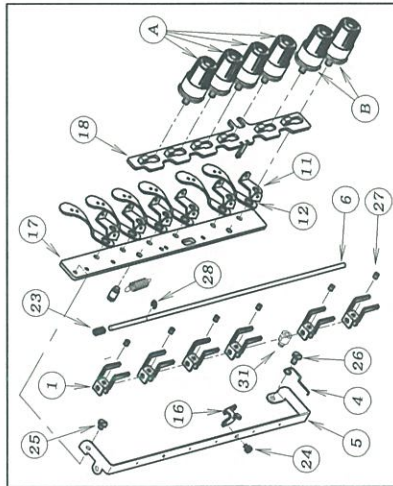
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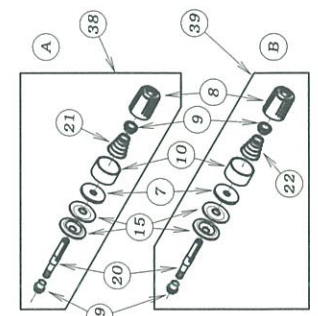
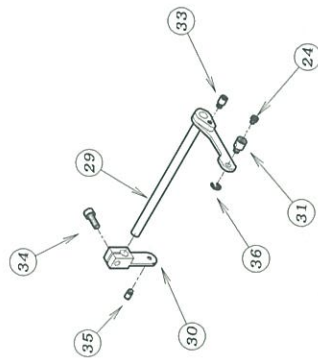
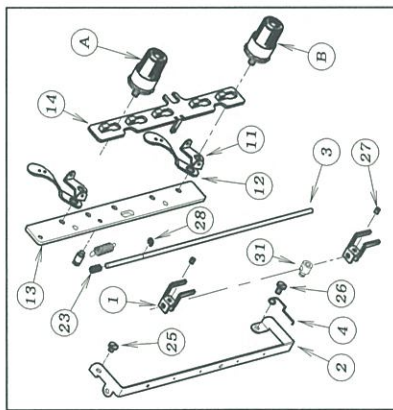
9703



9804



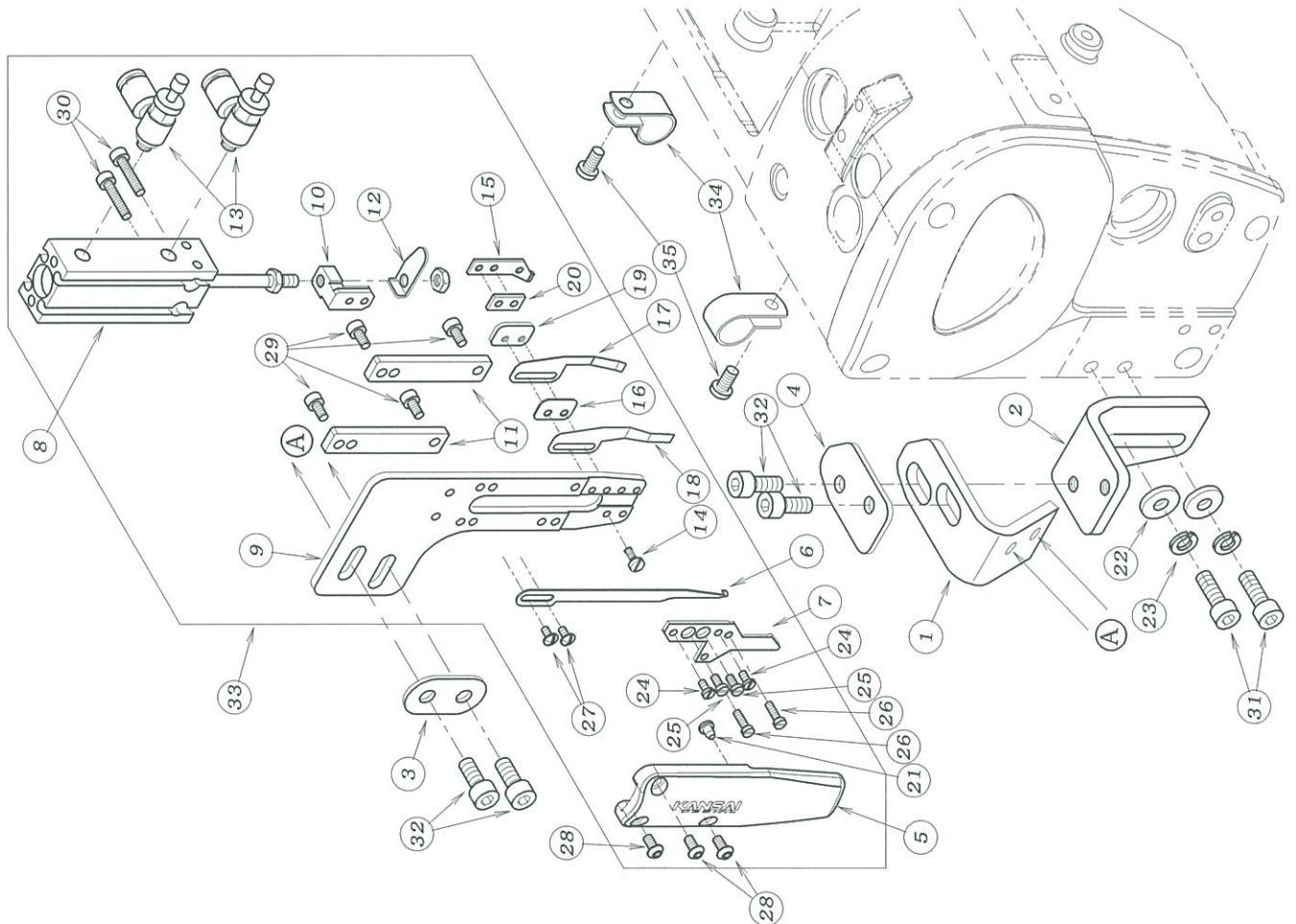
9701



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---------------|----------------------------|------|
| 23-01 | 105-850 | 糸繰めプロック (大) | HOLDER | * |
| 23-02 | 05-956 | 糸繰め糸道 | THREAD EYELET | 1 |
| 23-03 | 105-957 | 糸繰め棒 | SHAFT | 1 |
| 23-04 | 05-961 | 糸繰め防振パネ | SPRING | 1 |
| 23-05 | 105-962 | 糸繰め糸道 | THREAD EYELET | 1 |
| 23-06 | 05-963 | 糸繰め棒 | SHAFT | 1 |
| 23-07 | 123-324 | フェルト | FELT | * |
| 23-08 | 41-104 | チャンポン皿小ケース | THREAD TENSION NUT | * |
| 23-09 | 41-105 | チャンポン皿ラチェット | SPRING POST | * |
| 23-10 | 41-106 | チャンポン大ケース | SPRING CUP | * |
| 23-11 | 41-115 | 糸道 (上) | THREAD GUIDE | * |
| 23-12 | 41-117 | 糸道 (下) | THREAD GUIDE | * |
| 23-13 | 41-501 | ブラケット | BRACKET | 1 |
| 23-14 | 41-502 | 糸繰めプレート | THREAD RELEASER | 1 |
| 23-15 | 41-509 | チャンポン皿 | TENSION DISC | * |
| 23-16 | 41-514 | ルーバ-糸道 (A) | THREAD EYELET | 1 |
| 23-17 | 41-518 | フ-ラケット | BRACKET | 1 |
| 23-18 | 41-519 | 糸繰めプレート | THREAD RELEASER | 1 |
| 23-19 | 41-526 | 調子棒ガラー | COLLAR | * |
| 23-20 | 41-527 | 調子棒 | SCREW STUD | * |
| 23-21 | 41-701 | チャンポン調子パネ (強) | SPRING (HEAVY) | 1 |
| 23-22 | 41-702 | チャンポン調子パネ (弱) | SPRING (LIGHT) | 1 |
| 23-23 | 79-542 | 糸繰め棒防振パネ | SPRING | 1 |
| 23-24 | 84-364 | ネジ | SCREW | 2 |
| 23-25 | 84-553 | ネジ | SCREW | 1 |
| 23-26 | 84-574 | ネジ | SCREW | 1 |
| 23-27 | 87-286 | ネジ | SCREW | 1 |
| 23-28 | 93-201 | エレング | E-RING | 1 |
| 23-29 | 71-280 | レバ-シャフト (UT) | SHAFT | 1 |
| 23-30 | 05-958 | クランクレバ- | LEVER | 1 |
| 23-31 | 105-853 | 糸繰め連結片 | HOLDER | 1 |
| 23-32 | 84-501 | ネジ | SCREW | 1 |
| 23-33 | 84-561 | ネジ | SCREW | 1 |
| 23-34 | 87-224 | 六角穴付きボルト | BOLT | 1 |
| 23-35 | 87-423 | 段ネジ | SCREW | 1 |
| 23-36 | 93-205 | エレング | E-RING | 1 |
| 23-37 | 79-514 | 引張りパネ | SPRING | 1 |
| 23-38 | 40-7510 | チャンポンセット (強) | THREAD TENSION SET (HEAVE) | * |
| 23-39 | 40-7520 | チャンポンセット (弱) | THREAD TENSION SET (LIGHT) | * |

24. 上飾り糸切装置 (エア一式)

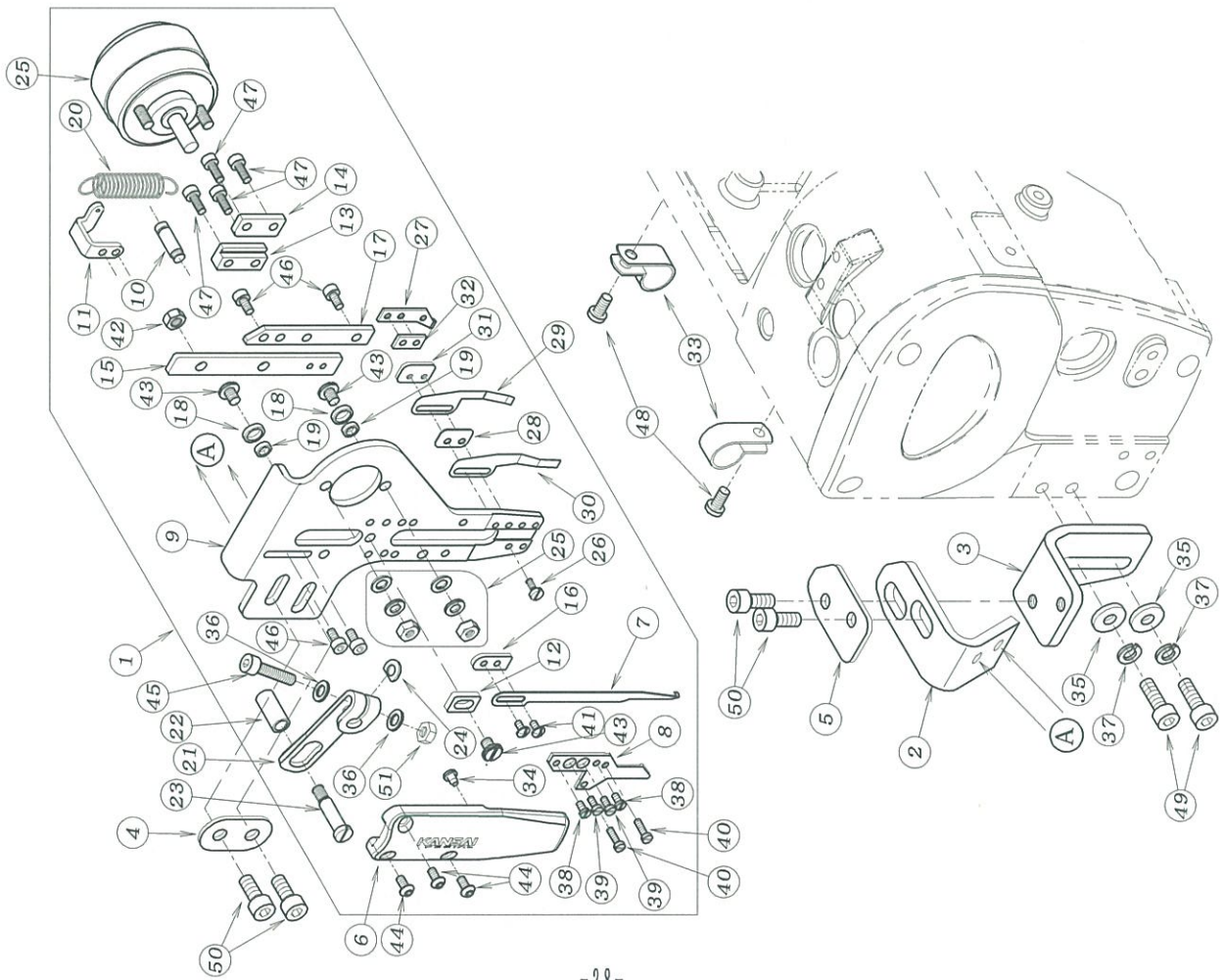
SPREADER THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---------------|-------------------------|------|
| 24-01 | 05-271 | 調節金具 | BRACKET | 1 |
| 24-02 | 05-272 | 取付ブラケット | BRACKET | 1 |
| 24-03 | 05-273 | 取付金具 (1) | BRACKET | 1 |
| 24-04 | 05-274 | 取付金具 (2) | BRACKET | 1 |
| 24-05 | 05-275 | カバー | COVER | 1 |
| 24-06 | 05-276 | 可動メス | TRIMMING KNIFE | 1 |
| 24-07 | 05-277 | 固定メス | FIXED KNIFE | 1 |
| 24-08 | 05-278 | エアシリンダー | AIR CYLINDER | 1 |
| 24-09 | 05-279 | 取付ベースプレート | BASE PLATE | 1 |
| 24-10 | 05-280 | シリンダーブロック | CYLINDER BLOCK | 1 |
| 24-11 | 05-281 | ガイド | GUIDE | 2 |
| 24-12 | 05-282 | 調節レバー | LEVER | 1 |
| 24-13 | 05-481 | スピードコントローラ | SPEED CONTROLLER | 2 |
| 24-14 | 06-601 | ネジ | SCREW | 1 |
| 24-15 | 06-602 | ハネ調節ライナー | LINER | 1 |
| 24-16 | 06-603 | メス裏ハネライナー | LINER | 1 |
| 24-17 | 06-604 | メス裏ハネ (溝) | LEAF SPRING | 1 |
| 24-18 | 06-605 | メス裏ハネ (朝) | LEAF SPRING | 1 |
| 24-19 | 06-608 | 裏ハネ止板 | PLATE | 1 |
| 24-20 | 06-630 | ハネ調節ベース板 | PLATE | 1 |
| 24-21 | 23-512 | クッションゴム | CUSHION RUBBER | 1 |
| 24-22 | 75-456 | ワッシャー | WASHER | 2 |
| 24-23 | 75-526 | スプリング ワッシャー | SPRING WASHER | 2 |
| 24-24 | 85-102 | ネジ | SCREW | 2 |
| 24-25 | 85-105 | ネジ | SCREW | 2 |
| 24-26 | 85-106 | ネジ | SCREW | 2 |
| 24-27 | 85-613 | ネジ | SCREW | 2 |
| 24-28 | 87-099 | ネジ | SCREW | 3 |
| 24-29 | 87-123 | 六角穴付きボルト | BOLT | 4 |
| 24-30 | 87-140 | 六角穴付きボルト | BOLT | 2 |
| 24-31 | 87-245 | 六角穴付きボルト | BOLT | 2 |
| 24-32 | 87-252 | 六角穴付きボルト | BOLT | 4 |
| 24-33 | 00-8096 | 上飾り糸切セット (エア) | THREAD TRIM ASS'Y (AIR) | 1 |
| 24-34 | 06-928 | ナイロンクリップ | CLAMP | 2 |
| 24-35 | 87-482 | プラマイナベ小ねじ | SCREW | 2 |

25. 上飾り糸切装置 (電気式)

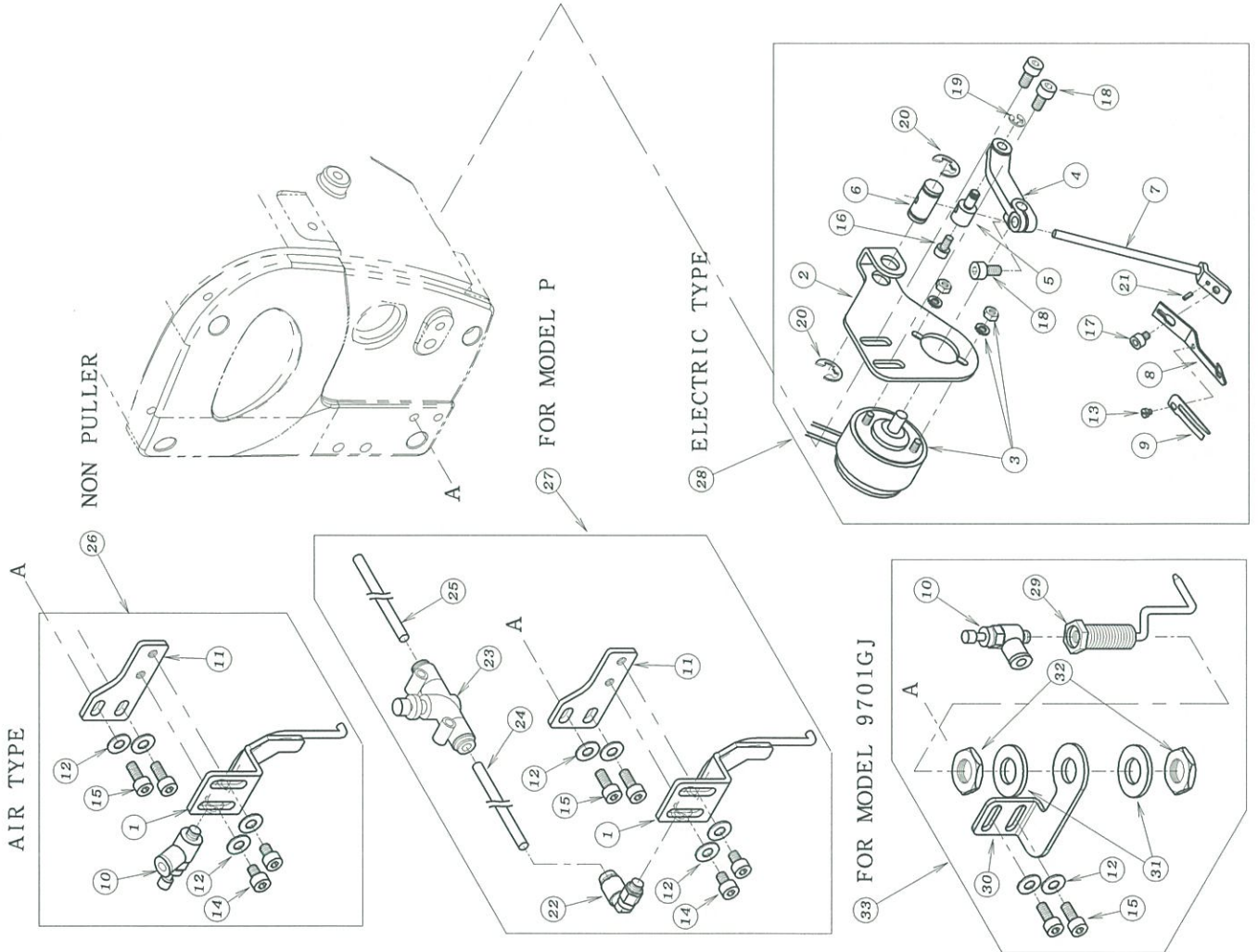
SPREADER THREAD TRIMMING MECHANISM (ELECTRIC TYPE)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|----------------|-------------------|------|
| 25-01 | 00-8097 | 上飾り糸切セット (電気式) | THREAD TRIM ASS'Y | 1 |
| 25-02 | 05-271 | 調節金具 | BRACKET | 1 |
| 25-03 | 05-272 | 取付ブラケット | BRACKET | 1 |
| 25-04 | 05-273 | 取付金具 (1) | BRACKET | 1 |
| 25-05 | 05-274 | 取付金具 (2) | BRACKET | 1 |
| 25-06 | 05-275 | カバー | COVER | 1 |
| 25-07 | 05-276 | 可動メス | TRIMMING KNIFE | 1 |
| 25-08 | 05-277 | 固定メス | FIXED KNIFE | 1 |
| 25-09 | 05-283 | 取付ベースプレート | BASE PLATE | 1 |
| 25-10 | 05-284 | ピン | PIN | 1 |
| 25-11 | 05-285 | フック | HANGER | 1 |
| 25-12 | 05-286 | ストップバー | STOP PLATE | 1 |
| 25-13 | 05-287 | メス押えカバー (A) | COVER | 1 |
| 25-14 | 05-288 | メス押えカバー (B) | COVER | 1 |
| 25-15 | 05-289 | 可動メスベース | BRACKET | 1 |
| 25-16 | 05-290 | スペーサー | PLATE | 1 |
| 25-17 | 05-291 | ガイド | GUIDE | 1 |
| 25-18 | 05-881 | カイトローラー | GUIDE ROLLER | 1 |
| 25-19 | 05-882 | カイトローラー (小) | GUIDE ROLLER | 2 |
| 25-20 | 06-367 | 引張コイルハネ | SPRING | 1 |
| 25-21 | 06-371 | ソレノイド 回転レバー | LEVER | 1 |
| 25-22 | 06-372 | カイトローラー | GUIDE ROLLER | 1 |
| 25-23 | 06-374 | カイトローラー | GUIDE SCREW | 1 |
| 25-24 | 06-375 | スペーサー | WASHER | 1 |
| 25-25 | 06-376 | ロータリソレノイド | SOLENOID | 1 |
| 25-26 | 06-601 | ネジ | SCREW | 1 |
| 25-27 | 06-602 | ハネ調節ライナー | LINER | 1 |
| 25-28 | 06-603 | メス裏ハネライナー | LINER | 1 |
| 25-29 | 06-604 | メス裏ハネ (溝) | LEAF SPRING | 1 |
| 25-30 | 06-605 | メス裏ハネ (卵) | LEAF SPRING | 1 |
| 25-31 | 06-608 | 裏ハネ止板 | PLATE | 1 |
| 25-32 | 06-630 | ハネ調節スペーサー板 | PLATE | 1 |
| 25-33 | 06-928 | ナイロンクリップ | CLAMP | 2 |
| 25-34 | 23-512 | クッションゴム | CUSHION RUBBER | 1 |
| 25-35 | 75-456 | ワッシャ | WASHER | 2 |
| 25-36 | 75-468 | ワッシャ | WASHER | 2 |
| 25-37 | 75-526 | スプリング ワッシャ | SPRING WASHER | 2 |
| 25-38 | 85-102 | ネジ | SCREW | 2 |
| 25-39 | 85-105 | ネジ | SCREW | 2 |
| 25-40 | 85-106 | ネジ | SCREW | 2 |
| 25-41 | 85-613 | ネジ | SCREW | 2 |
| 25-42 | 86-311 | ナット | NUT | 1 |
| 25-43 | 87-080 | ネジ | SCREW | 3 |
| 25-44 | 87-099 | ネジ | SCREW | 3 |
| 25-45 | 87-112 | 六角穴付きボルト | BOLT | 1 |
| 25-46 | 87-123 | 六角穴付きボルト | BOLT | 4 |
| 25-47 | 87-124 | ネジ | SCREW | 4 |
| 25-48 | 87-482 | プラマイナベ小ねじ | SCREW | 2 |
| 25-49 | 87-245 | 六角穴付きボルト | BOLT | 2 |
| 25-50 | 87-252 | 六角穴付きボルト | BOLT | 4 |
| 25-51 | 88-146 | ナット | NUT | 1 |

26. 上糸払い装置 THREAD WIPER MECHANISM

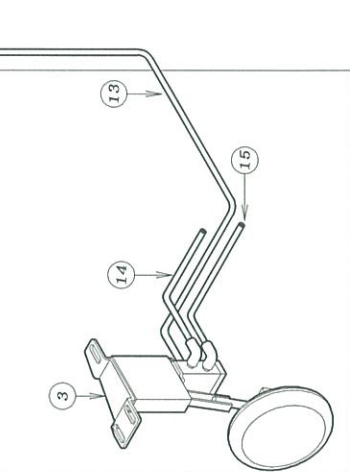
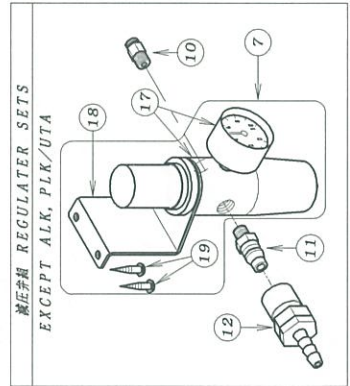
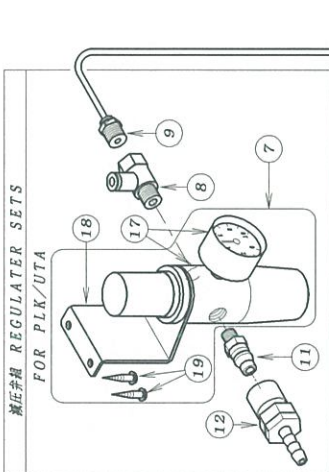
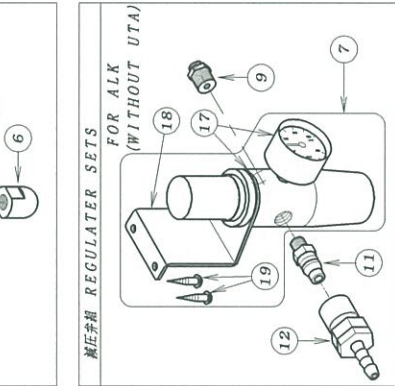
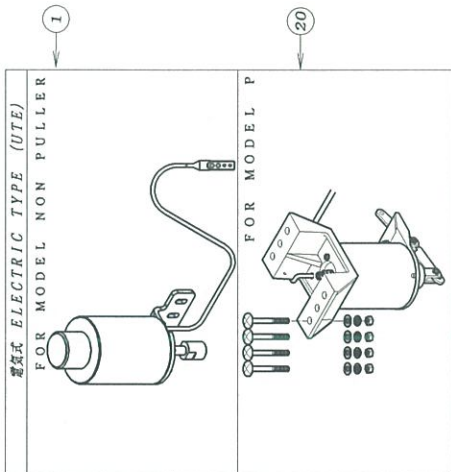
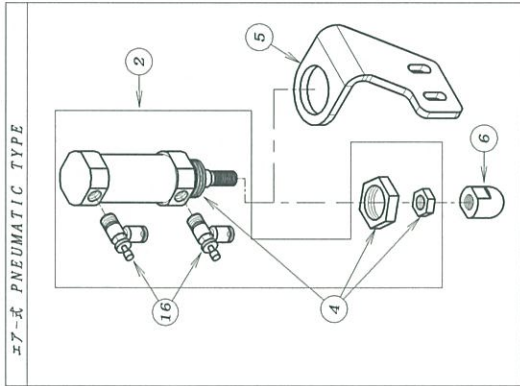
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|----------------|----------------------------------|------|
| 26-01 | 06-283 | エアノズル | AIR NOZZLE | 1 |
| 26-02 | 06-491 | ソレノイド 取付台 | BRACKET | 1 |
| 26-03 | 06-492 | ソレノイド | SOLENOID | 1 |
| 26-04 | 06-493 | ソレノイドレバ | LEVER | 1 |
| 26-05 | 06-494 | 取付ピン | PIN | 1 |
| 26-06 | 06-495 | 案内ピン | GUIDE PIN | 1 |
| 26-07 | 06-496 | ソレノイド取付台 | BRACKET | 1 |
| 26-08 | 06-497 | ワイパー | WIPER | 1 |
| 26-09 | 06-498 | 糸拭きハネ | SPRING | 1 |
| 26-10 | 06-559 | スピードコントローラ | SPEED CONTROLLER | 1 |
| 26-11 | 27-236 | エアノズル取付プレート | BRACKET | 1 |
| 26-12 | 75-455 | ワッシャ | WASHER | 4 |
| 26-13 | 87-091 | ネジ | SCREW | 1 |
| 26-14 | 87-092 | 六角穴付きボルト | BOLT | 2 |
| 26-15 | 87-113 | 六角穴付きボルト | BOLT | 2 |
| 26-16 | 87-123 | 六角穴付きボルト | BOLT | 1 |
| 26-17 | 87-142 | ネジ | SCREW | 1 |
| 26-18 | 87-177 | 六角穴付きボルト | BOLT | 3 |
| 26-19 | 93-201 | Eリング | E-RING | 1 |
| 26-20 | 93-213 | E環止め輪 | E-RING | 2 |
| 26-21 | 93-717 | スプリングピン | SPRING PIN | 1 |
| 26-22 | 05-202 | エルボユニオン | JOINT | 1 |
| 26-23 | 05-640 | スピードコントローラ | SPEED CONTROLLER | 1 |
| 26-24 | 05-495 | エアチューブφ4x260mm | AIR TUBE φ4x260mm | 1 |
| 26-25 | 05-493 | エアチューブφ4x400mm | AIR TUBE φ4x400mm | 1 |
| 26-26 | 00-8036 | 糸払い装置(エア) | WIPER MECHANISM ASS'Y (AIR) | 1 |
| 26-27 | 00-8037 | 糸払い装置(エア) | WIPER MECHANISM ASS'Y (AIR) | 1 |
| 26-28 | 00-8045 | 糸払い装置(電気) | WIPER MECHANISM ASS'Y (ELECTRIC) | 1 |
| 26-29 | 06-282 | エアノズル | AIR NOZZLE | 1 |
| 26-30 | 27-369 | エアノズル取付プレート | BRACKET | 1 |
| 26-31 | 75-538 | ワッシャ | WASHER | 2 |
| 26-32 | 86-801 | ナット | NUT | 2 |
| 26-33 | 00-8038 | 糸払い装置(エア) | WIPER MECHANISM ASS'Y (AIR) | 2 |



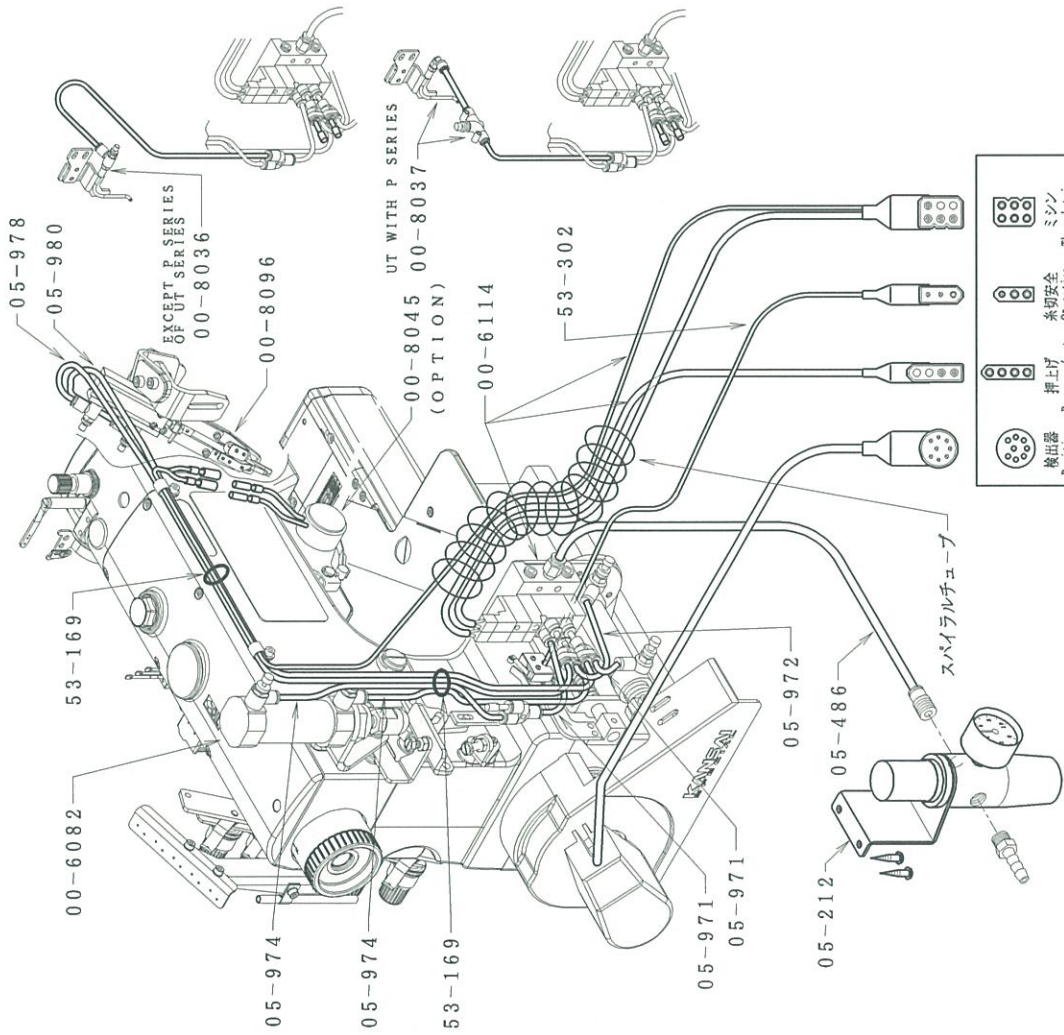
27. 押え揚げ装置, レギュレーターセット, 膝スイッチ機構

FOOT LIFTER MECHANISM, REGULATOR SETS, KNEE SWITCH MECHANISM

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|------------|-----------------|----------------------------|------|
| 27-01 | 100-8099 | 電気式押え揚装置 | FOOT LIFTER SOLENOID ASS'Y | 1 |
| 27-02 | 100-6082 | 押え揚ボリダゲセット | AIR CYLINDER ASS'Y | 1 |
| 27-03 | 100-6118 | 膝スイッチセット | KNEE SWITCH ASS'Y | 1 |
| 27-04 | 105-207 | 押え揚ボリダゲ | AIR CYLINDER | 1 |
| 27-05 | 177-032 | シリンダゲブケット | BRACKET | 1 |
| 27-06 | 105-897 | 作動金具 | BRACKET | 1 |
| 27-07 | 105-212 | フィルタレキユレタ | REGULATOR | 1 |
| 27-08 | 105-214 | ユニハサメスエルボ | JOINT | 1 |
| 27-09 | 105-217 | ハブユニオン | JOINT | 1 |
| 27-10 | 105-218 | レキユレタ用継手 | JOINT | 1 |
| 27-11 | 106-516 | カフラメス | CONNECTOR | 1 |
| 27-12 | 106-517 | カフラオス | CONNECTOR | 1 |
| 27-13 | 105-932 | エアチューブφ4x1500mm | AIR TUBE φ4x1500mm | 1 |
| 27-14 | 105-938 | エアチューブφ4x450mm | AIR TUBE φ4x450mm | 1 |
| 27-15 | 105-939 | エアチューブφ4x500mm | AIR TUBE φ4x500mm | 1 |
| 27-16 | 106-580 | スピードコントローラ | SPEED CONTROLLER | 2 |
| 27-17 | 105-2120-A | フィルタレキユレタ | REGULATOR | 1 |
| 27-18 | 105-2120-B | 取付けブラケット | BRACKET | 1 |
| 27-19 | 187-905 | 木ネジ | SCREW | 2 |
| 27-20 | 100-8028 | UT電気式押え揚げ装置 | FOOT LIFTER SOLENOID ASS'Y | 1 |

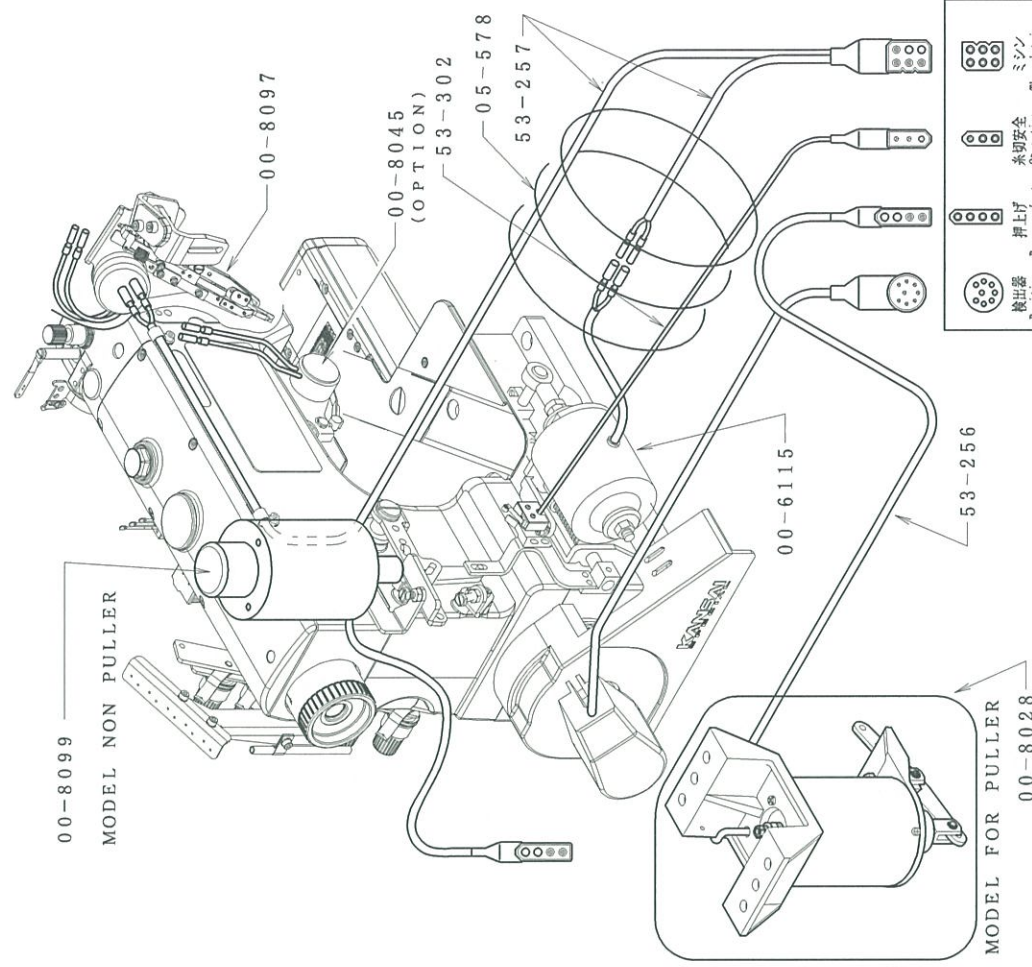


28-1. 配管, 配線図 (エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



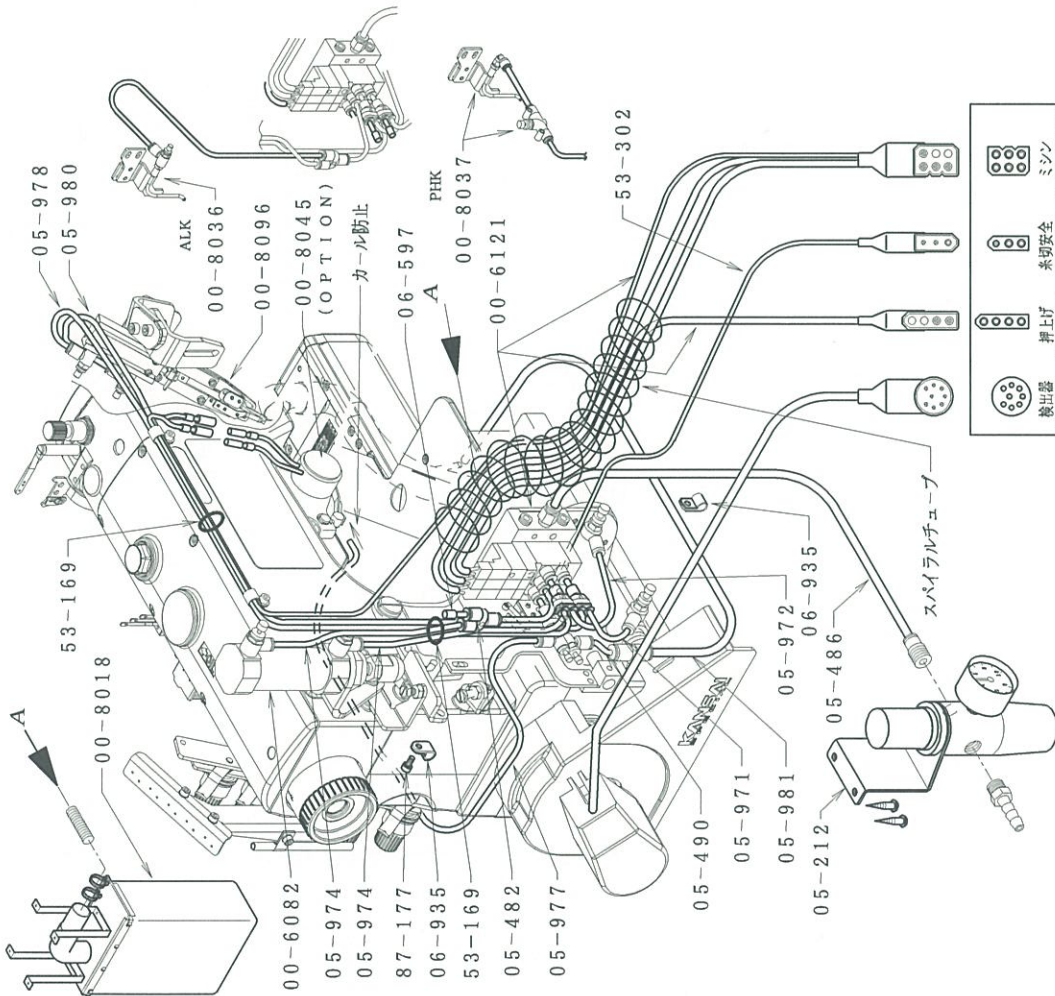
| PART NO. | 品名 | description |
|----------|---------------|---|
| 00-8096 | 上糸糸切装置 (エア-式) | spreader thread trimming mechanism (AIR TYPE) |
| 00-8036 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-8037 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-6082 | 押脚シリンダ-セット | presser foot lifter cylinder ass'y |
| 00-6114 | UT空圧装置 | air cylinder assembly (UTA) |
| 05-212 | レギュレータ | regulator |
| 00-8045 | 上糸払い装置 (電気) | thread wiper mechanism ass'y (electric) |

28-2. 配線図 (電気式) CORD CONNECTION (ELECTRIC TYPE)



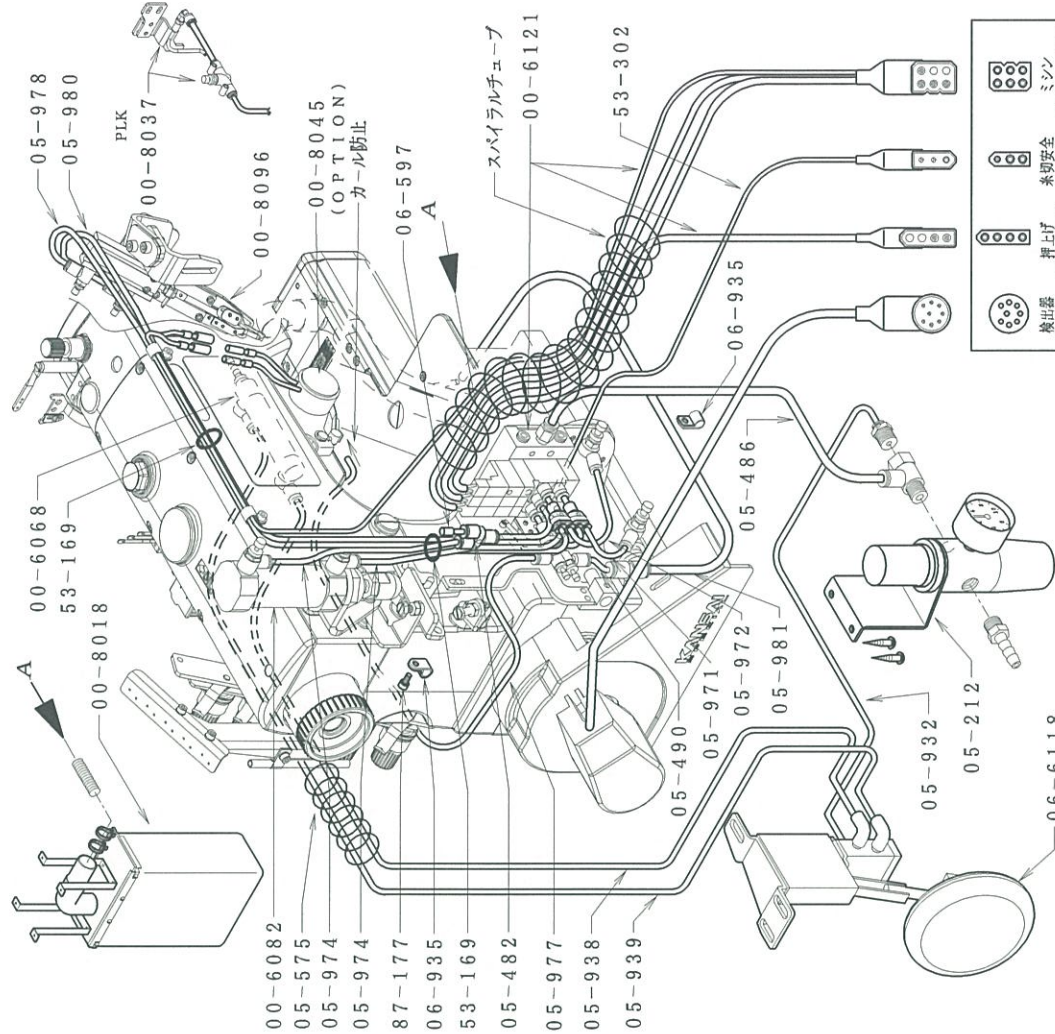
| PART NO. | 品名 | description |
|----------|------------|---|
| 00-8097 | 上糸糸切装置 | spreader thread trimming mechanism |
| 00-8099 | UT電気式押脚升装置 | presser foot lifter solenoid ass'y (FOR NON PULLER) |
| 00-8028 | UT電気式押脚升装置 | presser foot lifter solenoid ass'y (FOR PULLER) |
| 00-6115 | UT電気式下糸切装置 | solenoid assembly (UTE) |
| 00-8045 | 上糸払い装置 | thread wiper mechanism ass'y (electric) |
| 53-257 | 中継コード | relay cord |

28-3. 配管, 配線図 (ALK, PHK エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



| PART NO. | 品名 | description |
|----------|---------------|---|
| 00-8096 | 上飾糸切装置 (エア-式) | spreader thread trimming mechanism (AIR TYPE) |
| 00-8036 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-8037 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-6082 | 押巻シリンダ-セット | presser foot lifter cylinder ass'y |
| 00-6121 | UT空圧装置 | air cylinder assembly (UTA) |
| 05-212 | レギュレータ | regulator |
| 00-8018 | 集塵袋セット | dust bag assembly |
| 00-8045 | 上糸払い装置 (電気) | thread wiper mechanism ass'y (electric) |

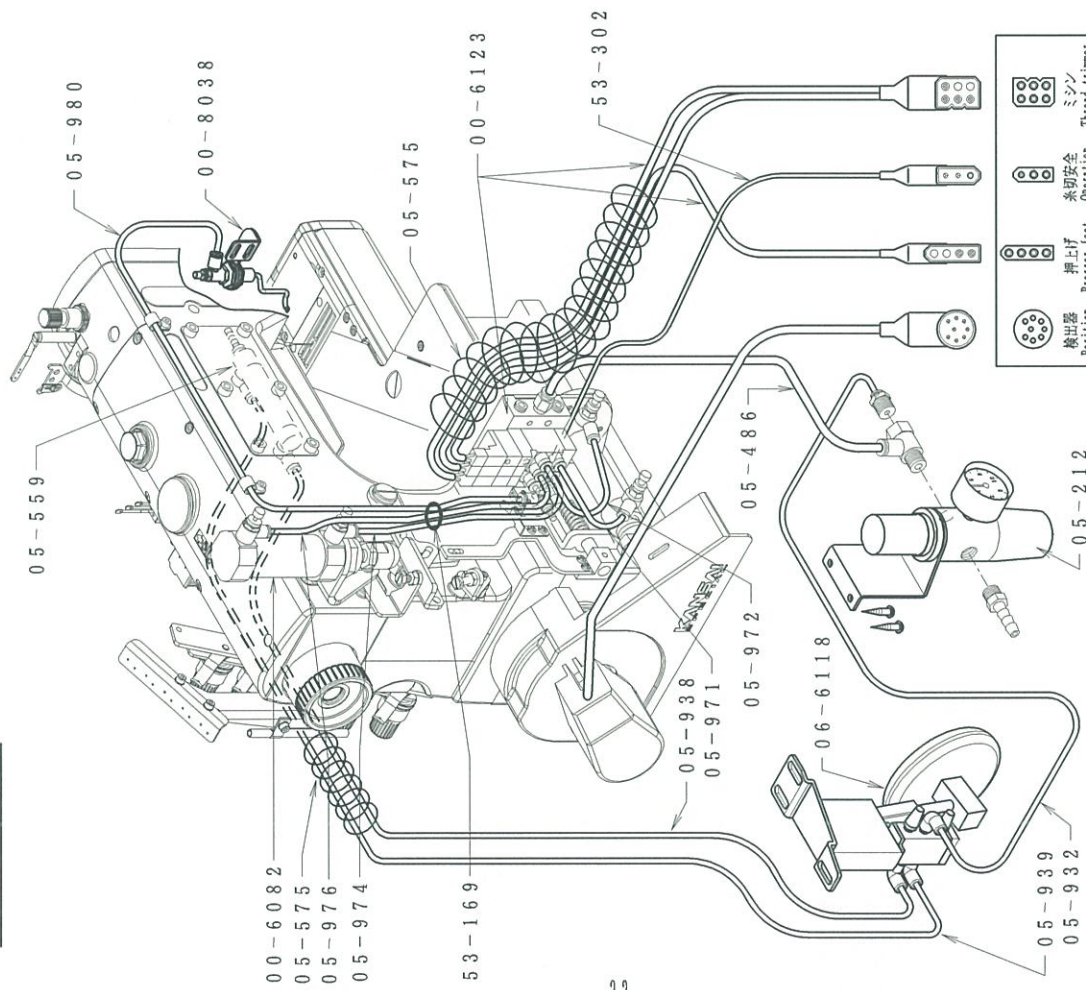
28-4. 配管, 配線図 (PLK エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



| PART NO. | 品名 | description |
|----------|---------------|---|
| 00-8096 | 上飾糸切装置 (エア-式) | spreader thread trimming mechanism (AIR TYPE) |
| 00-8037 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-6082 | 押巻シリンダ-セット | presser foot lifter cylinder ass'y |
| 00-6121 | UT空圧装置 | air cylinder assembly (UTA) |
| 05-212 | レギュレータ | regulator |
| 00-8018 | 集塵袋セット | dust bag assembly |
| 00-8045 | 上糸払い装置 (電気) | thread wiper mechanism ass'y (electric) |

28-5. 配管, 配線図 (J エア-式) WIRING AND PIPING (PNEUMATIC TYPE)

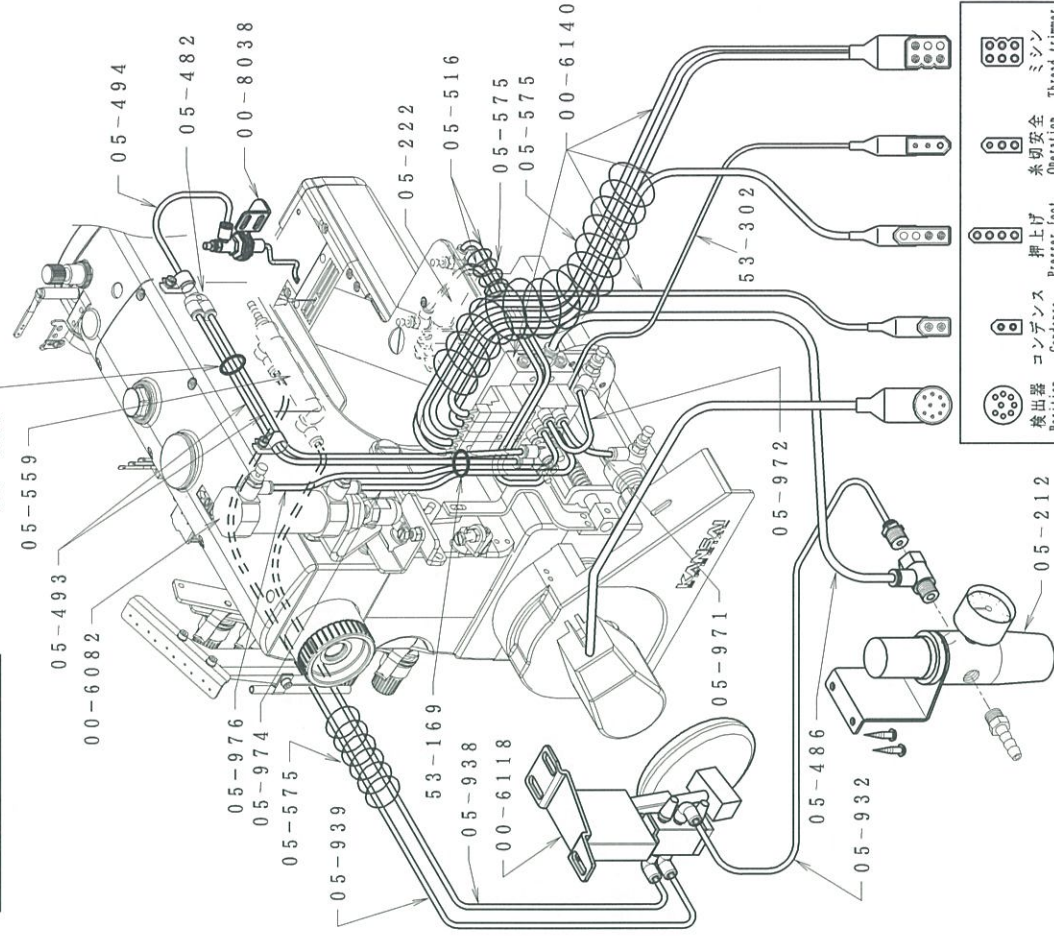
9701J-UTAB



| PART NO. | 品名 | description |
|----------|---------------|------------------------------------|
| 00-8038 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-6082 | 押揚シリンダ-セット | presser foot lifter cylinder ass'y |
| 00-6123 | UT空圧装置 | air cylinder assembly (UTA) |
| 05-212 | レギュレータ | regulator |
| 00-6118 | 膝スイッチセット | knee switch ass'y |

28-6. 配管, 配線図 (J-CD エア-式) WIRING AND PIPING (PNEUMATIC TYPE)

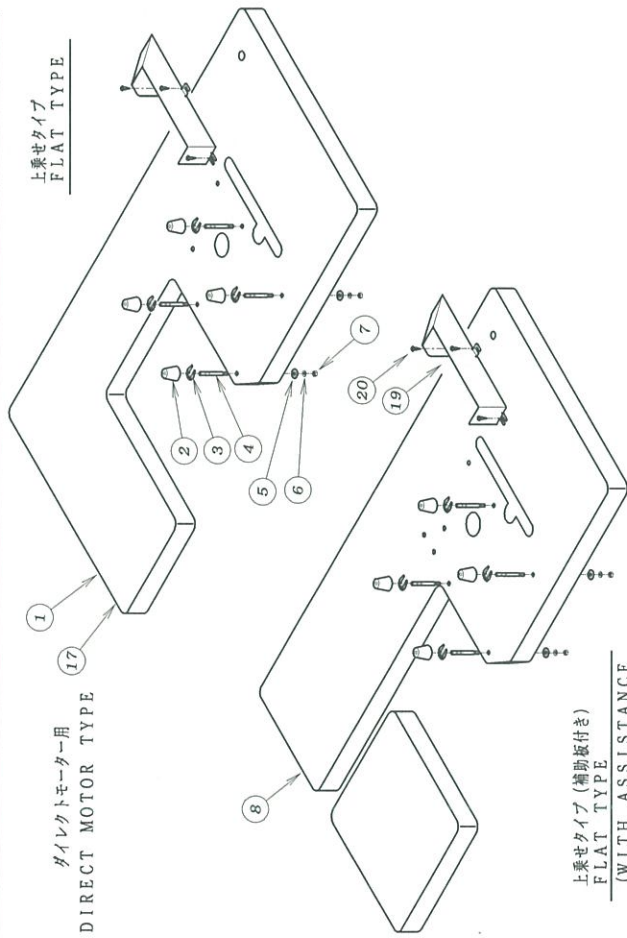
9701J-CD-UTAB



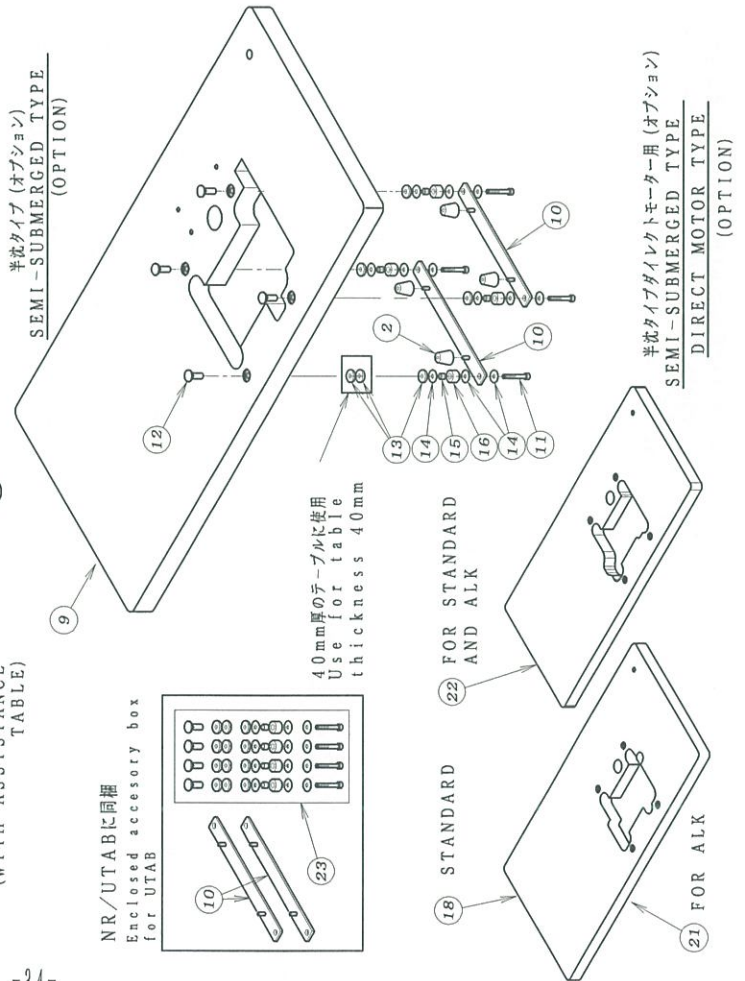
| PART NO. | 品名 | description |
|----------|---------------|------------------------------------|
| 00-8038 | 上糸払い装置 (エア-式) | thread wiper mechanism ass'y (air) |
| 00-6082 | 押揚シリンダ-セット | presser foot lifter cylinder ass'y |
| 00-6140 | UT空圧装置 | air cylinder assembly (UTA) |
| 05-212 | レギュレータ | regulator |
| 00-6118 | 膝スイッチセット | knee switch ass'y |

29. テーブル関係 TABLE

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|-------------------|-----------------------------------|------|
| 29-01 | 21-027 | シリンダー-フラットテーブル | FLAT TABLE | 1 |
| 29-02 | 23-509 | クッションゴム | CUSHION RUBBER | 4 |
| 29-03 | 93-501 | U型止め輪 | U-RING | 4 |
| 29-04 | 42-501 | クッションゴム取付ネジ | SCREW | 4 |
| 29-05 | 75-536 | 平ワッシャー | WASHER | 4 |
| 29-06 | 75-527 | M6用バネ板金 | WASHER | 4 |
| 29-07 | 88-166 | 固定ナット | NUT | 4 |
| 29-08 | 21-025 | 補助取付テーブル | WITH ASSISTANCE TABLE | 1 |
| 29-09 | 21-026 | シリンダー-半沈タイプ | SEMI SUBMERGED TABLE | 1 |
| 29-10 | 25-524 | タンク取付金具(D) | SUPPORTING BOARD | 2 |
| 29-11 | 87-281 | 六角穴付ボルト | BOLT | 4 |
| 29-12 | 42-503 | 本体取付ナット | NUT | 4 |
| 29-13 | 42-507 | スペーサー | SPACER | 4 |
| 29-14 | 75-535 | ワッシャー | WASHER | 12 |
| 29-15 | 42-509 | 防振ゴムカラー | SWING PROOF RUBBER COLLAR | 4 |
| 29-16 | 42-508 | 防振ゴム | SWING PROOF RUBBER | 4 |
| 29-17 | 27-312 | 上乗せテーブルダイレクトモーター用 | FLAT TABLE DIRECT MOTOR | 1 |
| 29-18 | 27-311 | 半沈タイプダイレクトモーター用 | SEMI SUBMERGED TABLE DIRECT MOTOR | 1 |
| 29-19 | 21-629W | 補助カバー | COVER | 1 |
| 29-20 | 87-901 | ネジ | SCREW | 3 |
| 29-21 | 27-354 | 半沈タイプダイレクトモーター用 | SEMI SUBMERGED TABLE DIRECT MOTOR | 1 |
| 29-22 | NR-789 | 半沈タイプダイレクトモーター用 | SEMI SUBMERGED TABLE DIRECT MOTOR | 1 |
| 29-23 | 20-0040 | ミシン取付部品セット | ACCESSORIES | 1 |



上乗せタイプ (補助板付き)
FLAT TYPE
(WITH ASSISTANCE TABLE)



NR/UTABに同梱
Enclosed accessory box
for UTAB

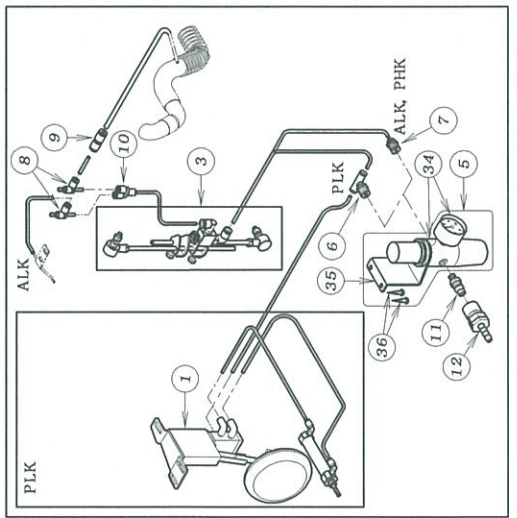
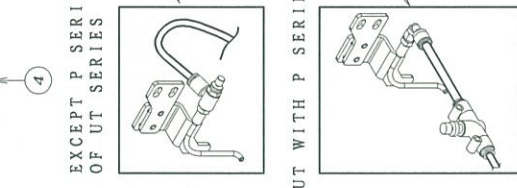
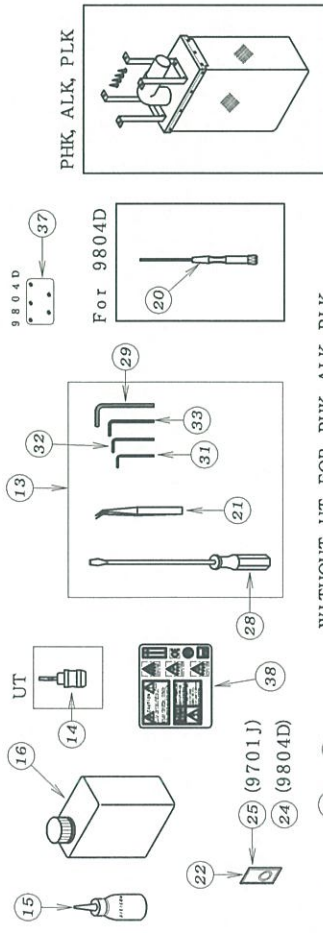
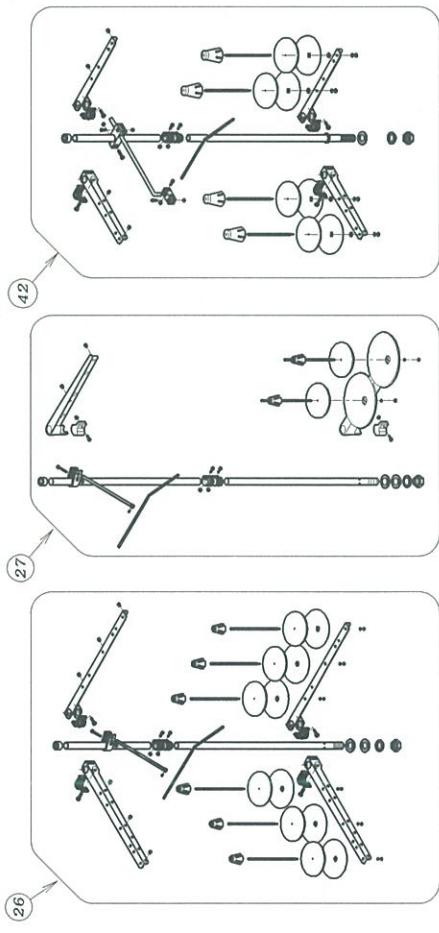
40mm厚のテーブルに使用
Use for table
thickness 40mm

FOR STANDARD
AND ALK

FOR ALK

半沈タイプダイレクトモーター用 (オプション)
SEMI-SUBMERGED TYPE
DIRECT MOTOR TYPE
(OPTION)

30. 糸立て及びアクセサリ-関係 THREAD STAND AND ACCESSORIES



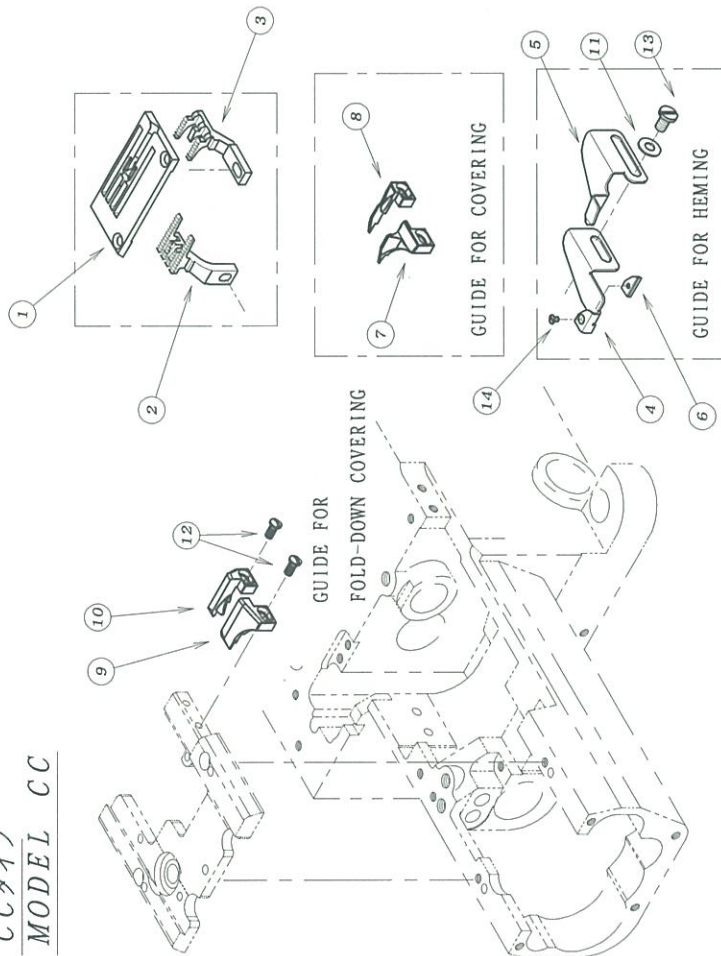
エアー式 UT は除く
EXCEPT UT (PNEUMATIC TYPE)

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|------------|------------------|-----------------------------|------|
| 30-01 | 100-6118 | 膝スイッチセット | KNEE SWITCH ASS'Y | 1 |
| 30-02 | 87-104 | ネジ | SCREW | 5 |
| 30-03 | 100-8014 | 吸込み用パルプセット | TREADLE AIR SWITCH ASSEMBLY | 1 |
| 30-04 | 100-8018 | 集塵袋セット | FABRIC BAG ASSEMBLY | 1 |
| 30-05 | 105-212 | フィルタレキユレータ | REGULATOR | 1 |
| 30-06 | 105-215 | 両口チークスユニオン | JOINT | 1 |
| 30-07 | 105-217 | ハーフユニオン | JOINT | 1 |
| 30-08 | 105-221 | スピードコントローラ | SPEED CONTROLLER | 2 |
| 30-09 | 105-224 | 異径ストロート | JOINT | 1 |
| 30-10 | 105-482 | ユニオンワイ | CONNECTOR | 1 |
| 30-11 | 106-516 | カプラメス | CONNECTOR | 1 |
| 30-12 | 106-517 | カプラメス | CONNECTOR | 1 |
| 30-13 | 20-0010 | 付属部品ケース | ACCESSORIES | 1 |
| 30-14 | 28-454 | トライハブ(小) | DRIVER (SMALL) | 1 |
| 30-15 | 28-612 | シリコンオイル | SILICON OIL | 1 |
| 30-16 | 28-618 | オイル | OIL | 1 |
| 30-17 | 28-614 | 油差し | OILER | 1 |
| 30-18 | 28-615 | シヨウコ | OIL FUNNEL | 1 |
| 30-19 | 28-920 | チェーン | CHAIN | 1 |
| 30-20 | 28-318 | 精密メイトドライブ-2.5mm | SCREWDRIVER | 1 |
| 30-21 | 28-011 | ピンセット | TWEZERS | 1 |
| 30-22 | 13-0110-6 | 針 UYX128GAS #11 | NEEDLE UYX128GAS #11 | 1 |
| 30-23 | 28-557 | シンカパー | COVER | 1 |
| 30-24 | 13-3020-5 | 針 SM1014H #10S | NEEDLE (9804D-6.4mm) #10S | 1 |
| 30-25 | 13-1510-5 | 針 TVX5 #21 | NEEDLE TVX5 #21 (RX9701J) | 1 |
| 30-26 | 42-706 | 6本糸立 | THREAD STAND ASSEMBLY | 1 |
| 30-27 | 42-002 | 2本糸立 | THREAD STAND ASSEMBLY | 1 |
| 30-28 | 28-452 | ドライブ(大) | DRIVER (LARGE) | 1 |
| 30-29 | 28-314 | 六角レンチ 5mm | ALLEN KEY (5mm) | 1 |
| 30-30 | 28-317 | グリッパ付六角レンチ 1.5mm | ALLEN KEY (1.5mm) | 1 |
| 30-31 | 28-311 | 六角レンチ 2mm | ALLEN KEY (2mm) | 1 |
| 30-32 | 28-312 | 六角レンチ 2.5mm | ALLEN KEY (2.5mm) | 1 |
| 30-33 | 28-313 | 六角レンチ 3mm | ALLEN KEY (3mm) | 1 |
| 30-34 | 105-2120-A | フィルタレキユレータ | REGULATOR | 1 |
| 30-35 | 105-2120-B | 取付けブラケット | BRACKET | 1 |
| 30-36 | 87-905 | 木ネジ | SCREW | 2 |
| 30-37 | 85-603 | ネジ | SCREW | 5 |
| 30-38 | 20-6200 | 警告ラベルシール | INFORMATION SEAL | 1 |
| 30-39 | 100-8036 | 糸払い装置(エア) | WIPER MECHANISM ASS'Y (AIR) | 1 |
| 30-40 | 100-8037 | 糸払い装置(エア) | WIPER MECHANISM ASS'Y (AIR) | 1 |
| 30-41 | 28-610 | 酸化性防錆剤 | CORROSION INHIBITOR | 1 |
| 30-42 | 42-704 | 4本糸立て | THREAD STAND ASSEMBLY | 1 |

31. CCタイプ, Pタイプ 生地ガイド関係

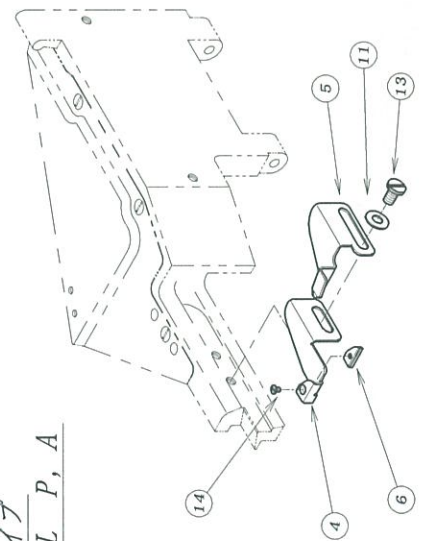
FABRIC GUIDE FOR MODEL CC, P, A

CCタイプ
MODEL CC



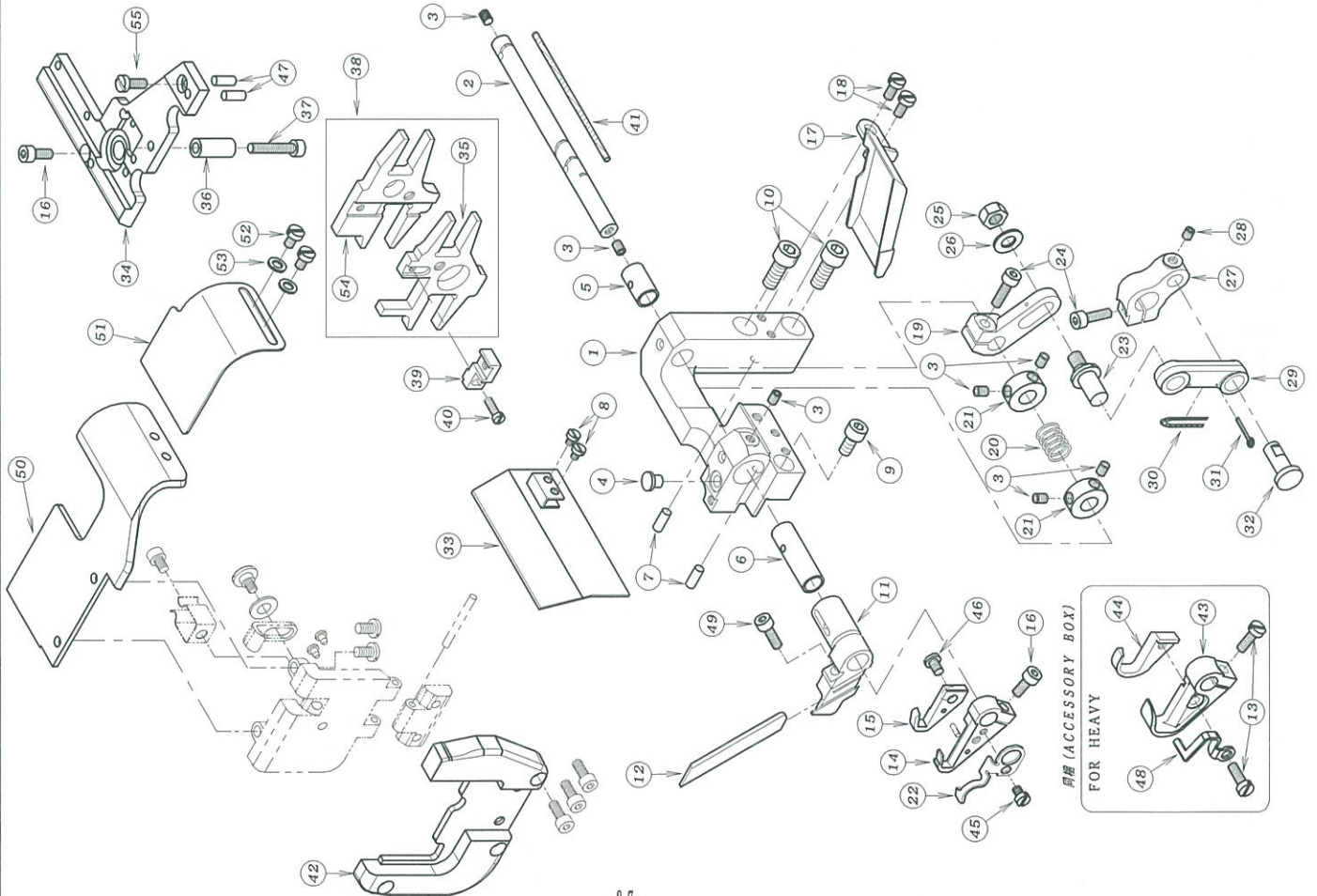
*Enclosing accessory box

P, Aタイプ
MODEL P, A



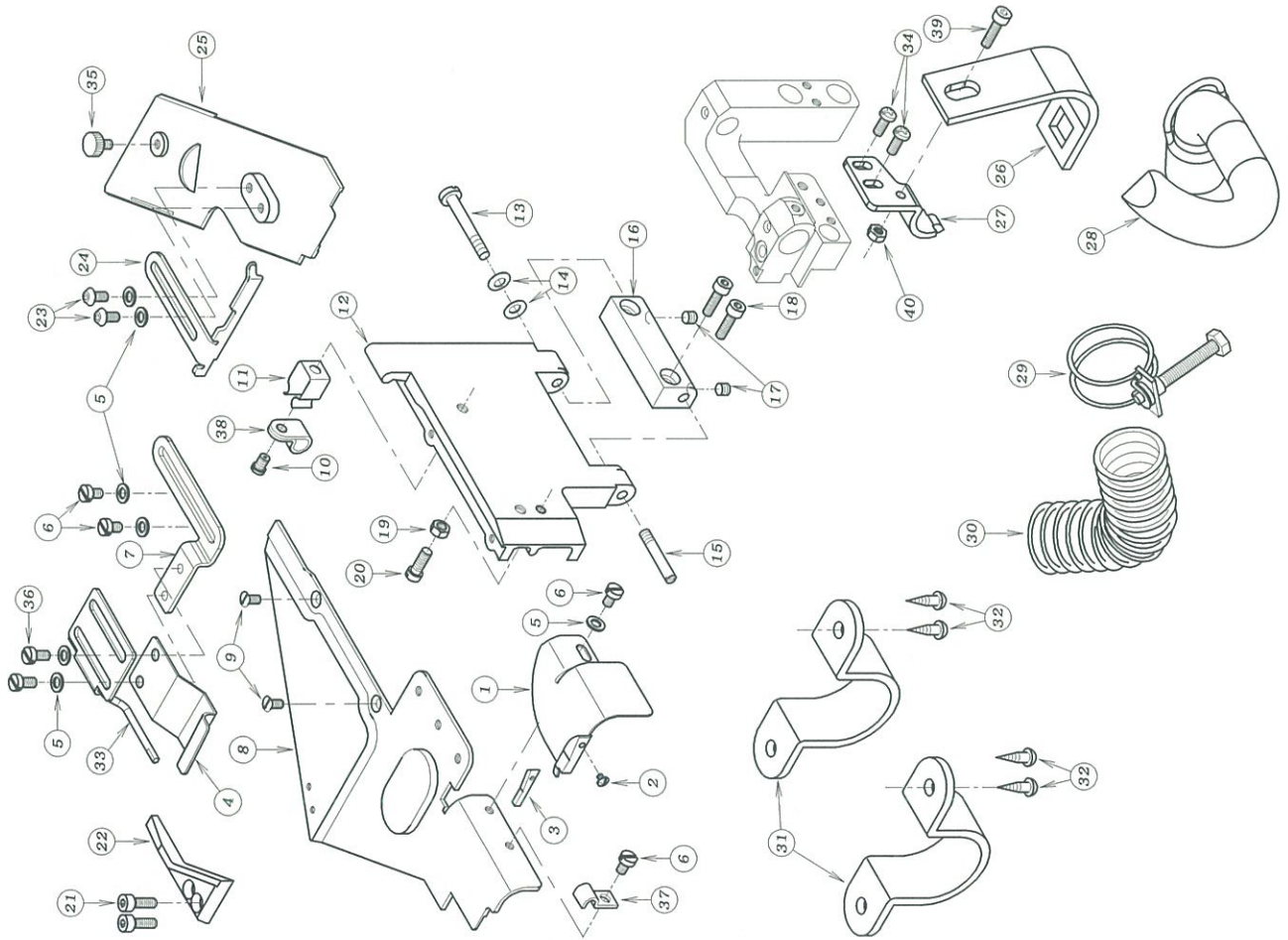
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---------|-----------------------|------|
| 31-01* | | 針板 | NEEDLE PLATE | 1 |
| 31-02* | | 後送歯 | REAR FEED DOG | 1 |
| 31-03* | | 前送歯 | FRONT FEED DOG | 1 |
| 31-04 | 26-556 | 裾引定規(左) | HEMMING GUIDE (LEFT) | 2 |
| 31-05 | 26-557 | 裾引定規(右) | HEMMING GUIDE (RIGHT) | 2 |
| 31-06 | 26-558 | 定規チップ | FOLDER CHIP | 2 |
| 31-07 | 26-831 | C用ガイド左 | EDGE GUIDE (LEFT) | 1 |
| 31-08 | 26-832 | C用ガイド右 | EDGE GUIDE (RIGHT) | 1 |
| 31-09 | 26-833 | CL用ガイド左 | EDGE GUIDE (LEFT) | 1 |
| 31-10 | 26-834 | CL用ガイド右 | EDGE GUIDE (RIGHT) | 1 |
| 31-11 | 175-455 | ワッシャー | WASHER | 2 |
| 31-12 | 84-154 | ネジ | SCREW | 2 |
| 31-13 | 84-574 | ネジ | SCREW | 2 |
| 31-14 | 87-105 | ネジ | SCREW | 2 |

32. 左メス機構 LEFT KNIFE FABRIC TRIMMER (MODEL *LK)



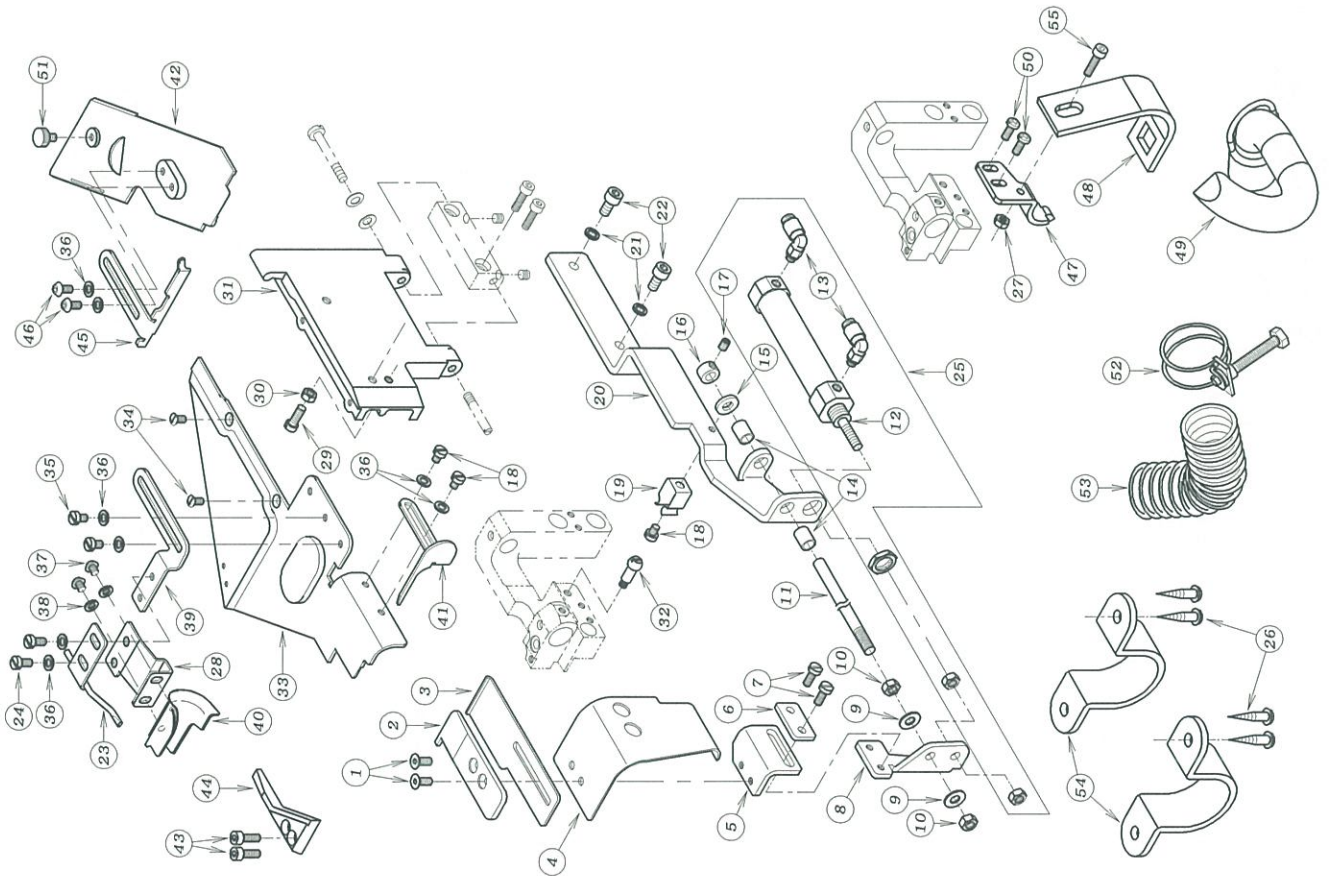
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|------------|------------------------------|------|
| 32-01 | 07-562W | メス上台 | BRACKET | 1 |
| 32-02 | 71-755 | メスシャフト | SHAFT | 1 |
| 32-03 | 87-181 | ネジ | SCREW | 7 |
| 32-04 | 23-425 | クッションゴム | RUBBER | 1 |
| 32-05 | 81-558 | ブッシュ | BUSHING | 1 |
| 32-06 | 81-537 | ブッシュ | BUSHING | 1 |
| 32-07 | 71-253 | ロックピン | PIN | 2 |
| 32-08 | 87-095 | ネジ | SCREW | 2 |
| 32-09 | 87-213 | ネジ | SCREW | 1 |
| 32-10 | 87-171 | ネジ | SCREW | 2 |
| 32-11 | 07-557 | 下メスブラケット | BRACKET | 1 |
| 32-12 | 07-558 | 下メス | KNIFE | 1 |
| 32-13 | 87-097 | ネジ | SCREW | 2 |
| 32-14 | 07-545 | 上メス上台 | BRACKET | 1 |
| 32-15 | 07-544 | 上メス | KNIFE | 1 |
| 32-16 | 87-113 | 六角穴付きボルト | BOLT | 2 |
| 31-17 | 07-563 | 油渡皿 | PLATE | 1 |
| 32-18 | 87-096 | ネジ | SCREW | 4 |
| 32-19 | 67-531 | メス調節レバー | LEVER | 1 |
| 32-20 | 79-568 | バネ | SPRING | 1 |
| 32-21 | 75-561 | カラー | COLLAR | 2 |
| 32-22 | 07-543 | 可動メスガイド | COVER | 1 |
| 32-23 | 04-502 | ピン | PIN | 1 |
| 32-24 | 87-214 | ネジ | SCREW | 2 |
| 32-25 | 88-166 | ナット | NUT | 1 |
| 32-26 | 75-452 | ワッシャー | WASHER | 1 |
| 32-27 | 67-527 | メス調節レバー | LEVER | 1 |
| 32-28 | 87-286 | ネジ | SCREW | 1 |
| 32-29 | 07-561 | リンク | LINK | 1 |
| 32-30 | 23-540 | フェルト | FELT | 1 |
| 32-31 | 93-620 | ピン | PIN | 1 |
| 32-32 | 71-724 | ピン | PIN | 1 |
| 32-33 | 07-564 | 油カバー | COVER | 1 |
| 32-34 | 14-171 | 鉄板上台 | NEEDLE PLATE SUPPORT BRACKET | 1 |
| 32-35 | 51-850 | 差込送り台 | DIFFERENTIAL FEED BAR | 1 |
| 32-36 | 27-217 | カバーストップカラー | COLLAR | 1 |
| 32-37 | 87-283 | 六角穴付きボルト | BOLT | 1 |
| 32-38 | 50-8270 | 送り台セット | FEED BAR ASS'Y | 1 |
| 32-39 | 51-849 | 取付ブラケット | BRACKET | 1 |
| 32-40 | 84-158 | ネジ | SCREW | 1 |
| 32-41 | 23-124 | フェルト | FELT | 1 |
| 32-42 | 27-253W | 横カバーヒンジ上台 | HINGE | 1 |
| 32-43 | 07-569 | 上メスブラケット | BRACKET | 1 |
| 32-44 | 07-570 | 上メス | UPPER KNIFE | 1 |
| 32-45 | 87-295 | ネジ | SCREW | 1 |
| 32-46 | 87-415 | ネジ | SCREW | 1 |
| 32-47 | 71-253 | ロックピン | PIN | 2 |
| 32-48 | 07-523 | 可動メス大ガイド | COVER | 1 |
| 32-49 | 87-129 | 六角穴付きボルト | BOLT | 1 |
| 32-50 | 27-254 | クロスプレート | COVER | 1 |
| 32-51 | 26-564 | 補助カバー | COVER | 1 |
| 32-52 | 87-284 | ネジ | SCREW | 2 |
| 32-53 | 75-468 | ワッシャー | WASHER | 2 |
| 32-54 | 51-827 | 主送り台 | MAIN FEED BAR | 1 |
| 32-55 | 87-145 | ネジ | SCREW | 1 |

33. ALK専用部品 MODEL ALK EXCLUSIVE PARTS



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|--------------|----------------------|------|
| 33-01 | 26-567 | 布ガイド (右) | GUIDE (LEFT) | 1 |
| 33-02 | 85-611 | ネジ | SCREW | 1 |
| 33-03 | 85-611 | ネジ | SCREW | 1 |
| 33-03 | 26-568 | 定規チップ | BLOCK | 1 |
| 33-04 | 26-565 | 棚底規 (右) | GUIDE (RIGHT) | 1 |
| 33-05 | 75-468 | ワッシャー | WASHER | 7 |
| 33-06 | 87-284 | ネジ | SCREW | 4 |
| 33-07 | 26-572 | 棚底規 (右) 取付台 | BRACKET (RIGHT) | 1 |
| 33-08 | 21-752W | 両板 | FRONT PLATE | 1 |
| 33-09 | 84-464 | ネジ | SCREW | 2 |
| 33-10 | 84-575 | ネジ | SCREW | 1 |
| 33-11 | 79-912 | 定規台板バネ | SPRING | 1 |
| 33-12 | 21-743W | 定規台 | FRONT COVER | 1 |
| 33-13 | 25-517 | ピンジネジ | SCREW | 1 |
| 33-14 | 79-922 | 皿バネ | FLAT SPRING | 2 |
| 33-15 | 25-527 | ピンジネジ | SCREW | 1 |
| 33-16 | 25-516W | ピンジ | HINGE | 1 |
| 33-17 | 87-274 | ネジ | SCREW | 2 |
| 33-18 | 87-214 | ネジ | SCREW | 2 |
| 33-19 | 86-311 | ナット | NUT | 1 |
| 33-20 | 84-635 | ネジ | SCREW | 1 |
| 33-21 | 87-129 | ネジ | SCREW | 2 |
| 33-22 | 21-737W | 差込棚かバネ | COVER | 1 |
| 33-23 | 87-272 | ネジ | SCREW | 2 |
| 33-24 | 26-570 | 布ガイド (右) | FABRIC GUIDE (RIGHT) | 1 |
| 33-25 | 21-767 | 両板 | SLIDE COVER | 1 |
| 33-26 | 07-010 | 張込みハーフ 止め金具 | PIPE BAND | 1 |
| 33-27 | 07-009 | 張込みハーフ フラケット | BRACKET | 1 |
| 33-28 | 07-011 | 張込みハーフ | PIPE | 1 |
| 33-29 | 07-573 | ホスバンド | BELT | 1 |
| 33-30 | 07-572 | ホス | HOSE | 1 |
| 33-31 | 07-542 | ホスクラップ | CLAMP | 2 |
| 33-32 | 87-902 | ネジ | SCREW | 4 |
| 33-33 | 26-573 | カーン防ヒヤシブ | PIPE | 1 |
| 33-34 | 87-483 | ブライヤシブ | SCREW | 2 |
| 33-35 | 87-409 | ネジ | SCREW | 1 |
| 33-36 | 87-096 | ネジ | SCREW | 2 |
| 33-37 | 39-131 | パイプサポート | CLAMP | 1 |
| 33-38 | 06-935 | パイロンクリップ | CLAMP | 1 |
| 33-39 | 87-299 | 六角穴付きボルト | BOLT | 1 |
| 33-40 | 88-146 | ナット | NUT | 1 |

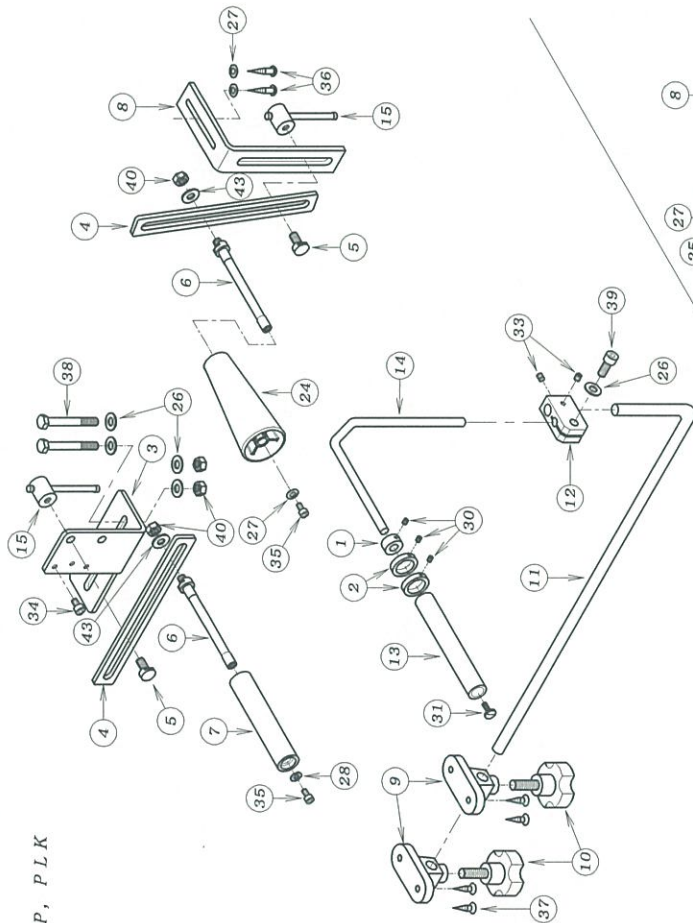
34. PLK専用部品 MODEL PLK EXCLUSIVE PARTS



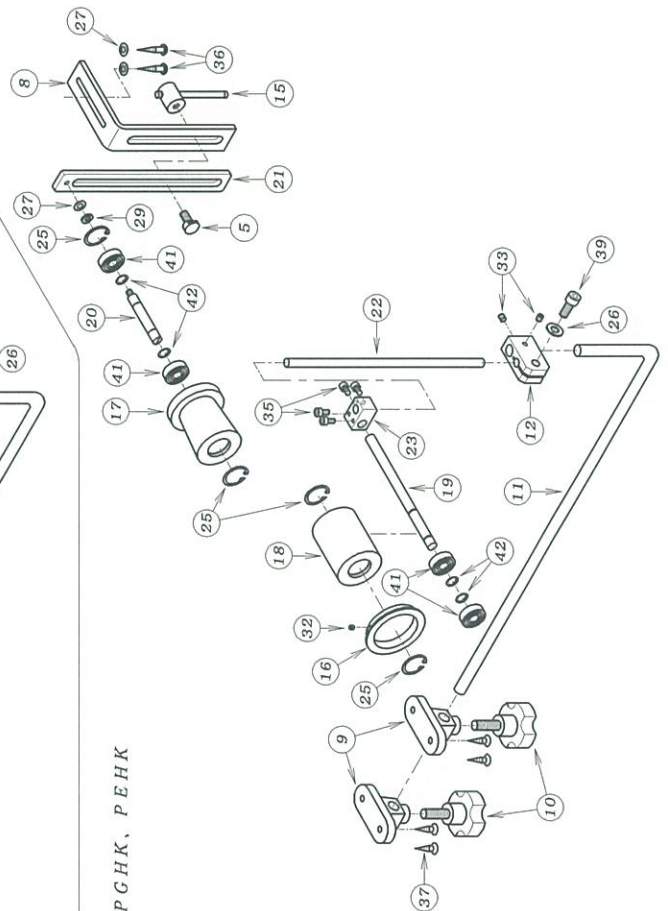
| REF. NO. | PART NO. | 品名 | DESCRIPTION | QTY |
|----------|----------|--------------|----------------------|-----|
| 34-01 | 87-270 | 皿ネジ | SCREW | 2 |
| 34-02 | 09-533 | ゴムガイド (H) | GUIDE (UPPER) | 1 |
| 34-03 | 09-534 | ゴムガイド (F) | GUIDE (LOWER) | 1 |
| 34-04 | 09-537 | カバー | COVER | 1 |
| 34-05 | 09-538 | スライドブACKET | BRACKET | 1 |
| 34-06 | 09-539 | 止め金具 | PLATE | 1 |
| 34-07 | 87-145 | ネジ | SCREW | 2 |
| 34-08 | 09-541 | スライドブACKET | BRACKET | 1 |
| 34-09 | 75-453 | ワッシャー | WASHER | 2 |
| 34-10 | 88-157 | ナット | NUT | 2 |
| 34-11 | 09-540 | ガイド棒 | SHAFT | 1 |
| 34-12 | 06-556 | ゴムガイドシリンダ | AIR CYLINDER | 1 |
| 34-13 | 05-202 | ホルボユニオン | JOINT | 2 |
| 34-14 | 09-504 | ワッシャー | BUSHING | 1 |
| 34-15 | 09-506 | クッションゴムA | RUBBER | 1 |
| 34-16 | 75-108 | カラー | COLLAR | 1 |
| 34-17 | 84-521 | ネジ | SCREW | 1 |
| 34-18 | 87-098 | ネジ | SCREW | 3 |
| 34-19 | 79-912 | 板バネ | SPRING | 1 |
| 34-20 | 09-536 | シリンダブACKET | BRACKET | 1 |
| 34-21 | 75-457 | ワッシャー | WASHER | 2 |
| 34-22 | 87-213 | ネジ | SCREW | 2 |
| 34-23 | 26-571 | カル防止パイプ | PIPE | 1 |
| 34-24 | 87-096 | ネジ | SCREW | 2 |
| 34-25 | 00-6068 | ゴム製用シリンダセット | SYLINDER ASS'Y | 1 |
| 34-26 | 87-905 | ネジ | SCREW | 4 |
| 34-27 | 88-146 | ナット | NUT | 1 |
| 34-28 | 26-569 | 布ガイド (右) 取付台 | BRACKET (RIGHT) | 1 |
| 34-29 | 84-635 | ネジ | SCREW | 1 |
| 34-30 | 86-311 | ナット | NUT | 1 |
| 34-31 | 21-743W | 取付台 | FRONT COVER | 1 |
| 34-32 | 25-522 | カバーストップネジ | STOP PIN | 1 |
| 34-33 | 21-752W | 取付板 | FRONT PLATE | 1 |
| 34-34 | 84-464 | ネジ | SCREW | 2 |
| 34-35 | 87-284 | ネジ | SCREW | 2 |
| 34-36 | 75-468 | ワッシャー | WASHER | 8 |
| 34-37 | 87-267 | ネジ | SCREW | 2 |
| 34-38 | 75-410 | バネ巻線 | SPRING WASHER | 2 |
| 34-39 | 26-566 | 網取付 (右) 取付台 | BRACKET (RIGHT) | 1 |
| 34-40 | 09-543 | 右身取付台 | FABRIC GUIDE | 1 |
| 34-41 | 09-544 | 布ガイド (右) | GUIDE (LEFT) | 1 |
| 34-42 | 21-767 | 取付板 | SLIDE COVER | 1 |
| 34-43 | 87-129 | ネジ | SCREW | 2 |
| 34-44 | 21-737W | 取付補助カバー | COVER | 1 |
| 34-45 | 26-570 | 布ガイド (右) | FABRIC GUIDE (RIGHT) | 1 |
| 34-46 | 87-272 | ネジ | SCREW | 2 |
| 34-47 | 07-009 | 取付台 | BRACKET | 1 |
| 34-48 | 07-010 | 取付台 | BELT | 1 |
| 34-49 | 07-011 | 取付台 | JOINT | 1 |
| 34-50 | 87-483 | 取付台 | SCREW | 2 |
| 34-51 | 87-409 | ネジ | SCREW | 1 |
| 34-52 | 07-573 | ホースバンド | BELT | 1 |
| 34-53 | 07-572 | ホース | HOSE | 1 |
| 34-54 | 07-542 | ホースクランプ | CLAMP | 2 |
| 34-55 | 87-299 | 六角穴付きボルト | BOLT | 1 |

35. ゴム張り機構, GUIDE ROLLER MECHANISM

P, PLK

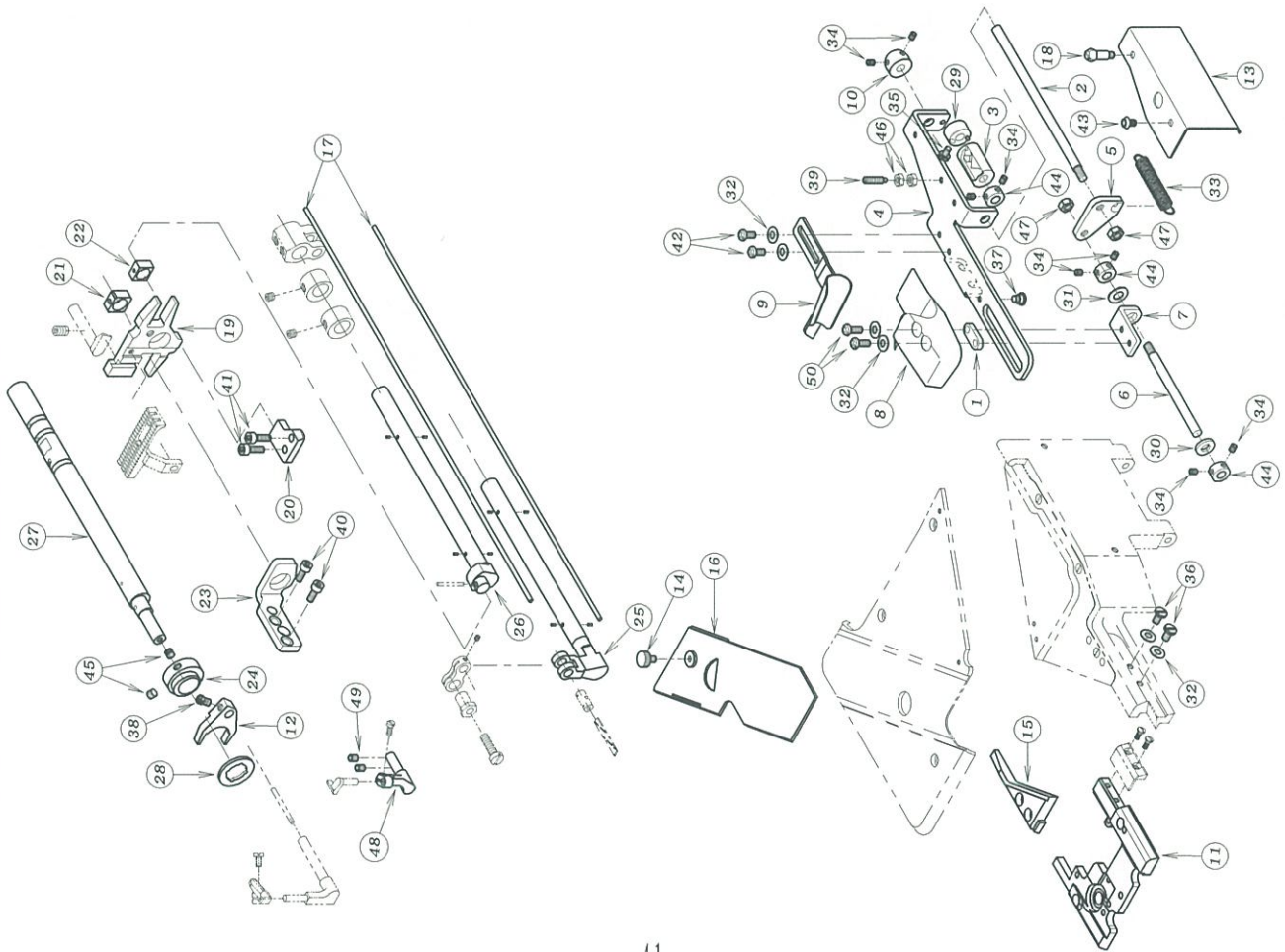


PGHK, PEHK



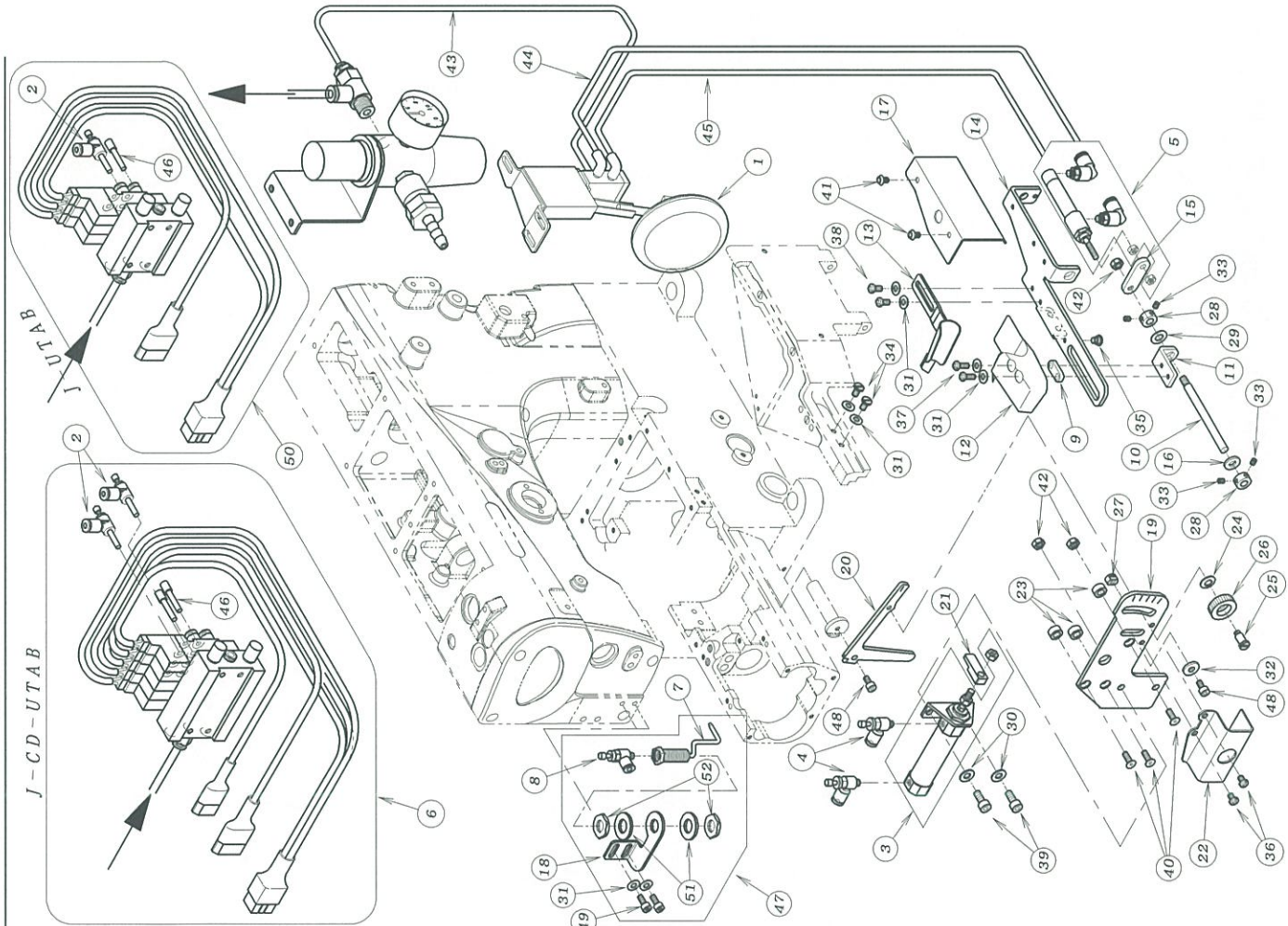
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|--------------|----------------------|------|
| 35-01 | 109-145 | カラー | COLLAR | 1 |
| 35-02 | 109-147 | カラー | COLLAR | 2 |
| 35-03 | 109-519 | リアローラープレート | REAR ROLLER BRACKET | 1 |
| 35-04 | 109-521 | リアローラースライド | SLIDE PLATE | 1 |
| 35-05 | 109-522 | リアローラー止めネジ | SCREW | 1~2 |
| 35-06 | 109-523 | リアローラー調整軸 | SHAFT | 2 |
| 35-07 | 109-524 | リアローラー | REAR ROLLER | 1 |
| 35-08 | 109-525 | フロントローラープレート | FRONT ROLLER BRACKET | 1 |
| 35-09 | 109-526 | フロントローラープレート | FRONT ROLLER BRACKET | 2 |
| 35-10 | 109-527 | ノブ | KNOB | 2 |
| 35-11 | 109-528 | フロントローラープレート | FRONT ROLLER BRACKET | 1 |
| 35-12 | 109-529 | フロントローラー調整手 | JOINT BLOCK | 1 |
| 35-13 | 109-530 | フロントローラー | ROLLER | 1 |
| 35-14 | 109-531 | フロントローラープレート | FRONT ROLLER BRACKET | 1 |
| 35-15 | 109-533 | ハンドル | HANDLE | 1~2 |
| 35-16 | 109-603 | フロントローラーガイド | FRONT ROLLER GUIDE | 1 |
| 35-17 | 109-614 | フロントローラー | FRONT ROLLER | 1 |
| 35-18 | 109-615 | フロントローラー | FRONT ROLLER | 1 |
| 35-19 | 109-616 | フロントローラーシャフト | FRONT ROLLER SHAFT | 1 |
| 35-20 | 109-617 | フロントローラー | FRONT ROLLER | 1 |
| 35-21 | 109-618 | フロントローラー | FRONT ROLLER | 1 |
| 35-22 | 109-619 | フロントローラーシャフト | FRONT ROLLER SHAFT | 1 |
| 35-23 | 109-620 | フロントローラー調整手 | JOINT BRACKET | 1 |
| 35-24 | 109-727 | フロントローラー | FRONT ROLLER | 1 |
| 35-25 | 193-238 | フロントローラー | FRONT ROLLER | 4 |
| 35-26 | 75-451 | ワッシャー | WASHER | 1~5 |
| 35-27 | 75-452 | ワッシャー | WASHER | 2~3 |
| 35-28 | 75-453 | ワッシャー | WASHER | 1 |
| 35-29 | 75-527 | スプリングワッシャー | SPRING WASHER | 1 |
| 35-30 | 84-521 | ネジ | SCREW | 3 |
| 35-31 | 84-570 | ネジ | SCREW | 1 |
| 35-32 | 87-106 | ネジ | SCREW | 1 |
| 35-33 | 87-172 | ネジ | SCREW | 2 |
| 35-34 | 87-203 | 六角穴付きボルト | BOLT | 1 |
| 35-35 | 87-213 | 六角穴付きボルト | BOLT | 2~4 |
| 35-36 | 87-501 | 丸木ネジ | SCREW | 2 |
| 35-37 | 87-502 | 丸木ネジ | SCREW | 4 |
| 35-38 | 87-503 | 六角ボルト | BOLT | 2 |
| 35-39 | 87-663 | 六角穴付きボルト | BOLT | 2 |
| 35-40 | 88-176 | ナット | NUT | 1 |
| 35-41 | 91-110 | ボールベアリング | BALL BEARING | 4 |
| 35-42 | 93-228 | 軸用丸S形止め輪 | SNAP RING | 4 |
| 35-43 | 75-501 | ワッシャー | WASHER | 2 |

36. 9701J 専用部品 MODEL 9701J EXCLUSIVE PARTS



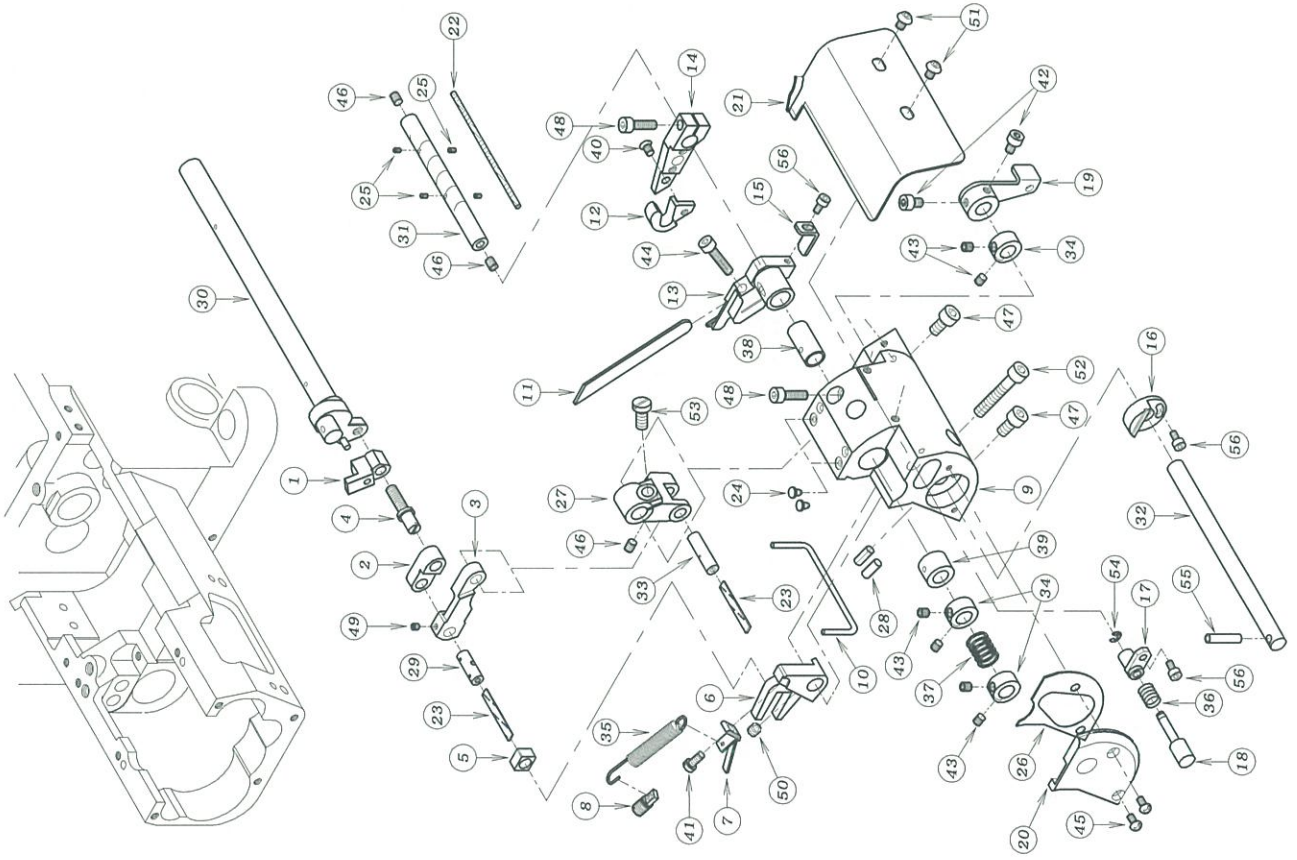
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---|-------------------------|------|
| 36-01 | 09-015 | スライト [*] 金具 | BRACKET | 1 |
| 36-02 | 09-016 | ホルダ [*] -案内構 (B) | GUIDE BAR (B) | 1 |
| 36-03 | 09-017 | ホルダ [*] -案内金具 | CAM | 1 |
| 36-04 | 09-018 | ホルダ [*] -取付台 | BRACKET | 1 |
| 36-05 | 09-019 | ホルダ [*] -連結プ [*] レート | PLATE | 1 |
| 36-06 | 09-020 | ホルダ [*] -案内構 (A) | GUIDE BAR (A) | 1 |
| 36-07 | 09-021 | ホルダ [*] -取付ブ [*] ラケット | BRACKET | 1 |
| 36-08 | 09-022 | ホルダ [*] - (左) | GUIDE (LEFT) | 1 |
| 36-09 | 09-023 | ホルダ [*] - (右) | GUIDE (RIGHT) | 1 |
| 36-10 | 09-159 | フ [*] ヅシユ金具 | BRACKET | 1 |
| 36-11 | 114-169 | 針板土台 | NEEDLE SUPPORT BRACKET | 1 |
| 36-12 | 18-010 | 針受レハ [*] - | LEVER | 1 |
| 36-13 | 21-232 | カハ [*] - | COVER | 1 |
| 36-14 | 87-409 | ネジ | SCREW | 1 |
| 36-15 | 21-244 | 差板補助カハ [*] - | COVER | 1 |
| 36-16 | 21-798 | 差板 | SLIDE COVER | 1 |
| 36-17 | 23-535 | フェルト | FELT | 2 |
| 36-18 | 25-522 | カハ [*] -ストップ [*] ネジ [*] | SCREW | 1 |
| 36-19 | 151-001 | 送り台 | FEED BAR | 1 |
| 36-20 | 51-824 | 送り土台カ [*] イト [*] フ [*] レート | FEED BAR GUIDE PLATE | 1 |
| 36-21 | 151-872 | 角コ [*] マ (後) | FEED LIFT BLOCK (REAR) | 1 |
| 36-22 | 51-875 | 角コ [*] マ (前) | FEED LIFT BLOCK (FRONT) | 1 |
| 36-23 | 51-876 | 送り土台カ [*] イト [*] (左) | GUIDE (LEFT) | 1 |
| 36-24 | 61-016 | 針受エキセン | ECCENTRIC | 1 |
| 36-25 | 71-024 | 差動送り輪 | FEED SHAFT | 1 |
| 36-26 | 71-025 | 送り上下輪 | FEED LIFT SHAFT | 1 |
| 36-27 | 71-039 | 下輪 | LOWER SHAFT | 1 |
| 36-28 | 75-013 | 平座金 | WASHER | 1 |
| 36-29 | 75-090 | ストップ [*] カラー | COLLAR | 1 |
| 36-30 | 09-506 | ワッシヤ | WASHER | 1 |
| 36-31 | 75-452 | ワッシヤ | WASHER | 1 |
| 36-32 | 75-455 | ワッシヤ | WASHER | 6 |
| 36-33 | 79-021 | 引離ハ [*] ネ | SPRING | 1 |
| 36-34 | 84-314 | ネジ [*] | SCREW | 8 |
| 36-35 | 84-361 | ネジ [*] | SCREW | 1 |
| 36-36 | 84-574 | ネジ [*] | SCREW | 2 |
| 36-37 | 84-585 | 段ネジ [*] | SCREW | 1 |
| 36-38 | 84-616 | ネジ [*] | SCREW | 1 |
| 36-39 | 87-016 | 六角穴付き止めねじ | SCREW | 1 |
| 36-40 | 87-113 | 六角穴付きボルト | BOLT | 2 |
| 36-41 | 87-129 | 六角穴付きボルト | BOLT | 2 |
| 36-42 | 87-177 | 六角穴付きボルト | BOLT | 2 |
| 36-43 | 87-267 | ネジ [*] | SCREW | 1 |
| 36-44 | 75-105 | カラー | COLLAR | 3 |
| 36-45 | 87-274 | ネジ [*] | SCREW | 2 |
| 36-46 | 88-146 | ナット | NUT | 2 |
| 36-47 | 88-157 | ナット | NUT | 2 |
| 36-48 | 18-813 | 針ガイドブラケット | BRACKET | 1 |
| 36-49 | 87-181 | ネジ | SCREW | 2 |
| 36-50 | 87-483 | プラマイナベ小ねじ | SCREW | 2 |

37. 9701JCD/UTA専用部品 MODEL 9701JCD/UTA EXCLUSIVE PARTS



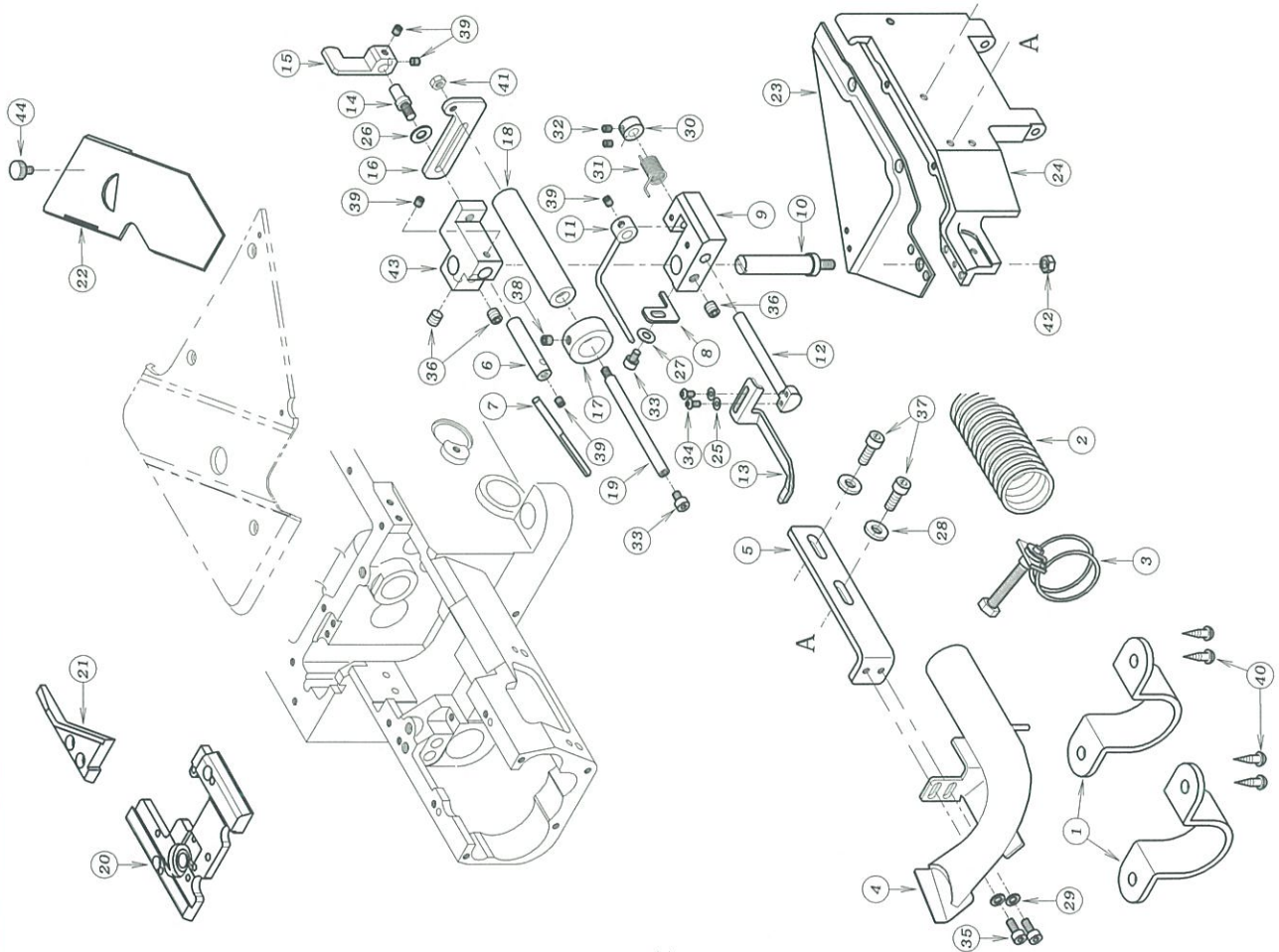
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|------------------|-----------------------------|------|
| 37-01 | 100-6118 | 膝スイッチセット | KNEE SWITCH ASS'Y | 1 |
| 37-02 | 105-221 | スピードコントロール | SPEED CONTROLLER | 2 |
| 37-03 | 105-222 | エアシリンダ | CYLINDER | 1 |
| 37-04 | 105-481 | スピードコントロール | SPEED CONTROLLER | 2 |
| 37-05 | 105-559 | エアシリンダ | AIR CYLINDER | 1 |
| 37-06 | 105-969 | 電磁弁5連セット | SOLENOID VALVE ASSEMBLY | 1 |
| 37-07 | 106-282 | エアノズル | AIR NOZZLE | 1 |
| 37-08 | 106-559 | スピードコントロール | SPEED CONTROLLER | 1 |
| 37-09 | 109-015 | スライダ' 金具 | BRACKET | 1 |
| 37-10 | 109-020 | ホルダ' 案内棒 (A) | GUIDE BAR | 1 |
| 37-11 | 109-021 | ホルダ' 取付フ' ラケット | BRACKET | 1 |
| 37-12 | 109-022 | ホルダ' (左) | GUIDE (LEFT) | 1 |
| 37-13 | 109-023 | ホルダ' (右) | GUIDE (RIGHT) | 1 |
| 37-14 | 109-024 | ホルダ' 取付台 | BRACKET | 1 |
| 37-15 | 109-025 | ホルダ' 運送フ' レート | PLATE | 1 |
| 37-16 | 109-506 | ワッシヤ | WASHER | 1 |
| 37-17 | 121-232 | カバー | COVER | 1 |
| 37-18 | 27-369 | エアプロブ' ラケット | BRACKET | 1 |
| 37-19 | 151-141 | 目盛板 | FEED GRADUATIONS | 1 |
| 37-20 | 151-142 | コンデ' ンスレハ' -- | CONDENSE LEVER | 1 |
| 37-21 | 151-143 | シリンダ' 先端金具 | BLOCK | 1 |
| 37-22 | 151-144 | 安全カバー | COVER | 1 |
| 37-23 | 151-805 | スヘ' スカラー | COLLAR | 3 |
| 37-24 | 151-806 | 皿ハ' ネ | SPRING | 1 |
| 37-25 | 151-807 | 段ネジ | SCREW | 1 |
| 37-26 | 151-808 | ナット | NUT | 1 |
| 37-27 | 151-846 | ストップ | STOPPER | 1 |
| 37-28 | 75-105 | カラー | COLLAR | 2 |
| 37-29 | 75-452 | ワッシヤ | WASHER | 1 |
| 37-30 | 75-453 | ワッシヤ | WASHER | 2 |
| 37-31 | 75-455 | ワッシヤ | WASHER | 8 |
| 37-32 | 75-456 | ワッシヤ | WASHER | 1 |
| 37-33 | 84-314 | ネジ | SCREW | 4 |
| 37-34 | 84-574 | ネジ | SCREW | 2 |
| 37-35 | 84-585 | 段ネジ | SCREW | 1 |
| 37-36 | 87-481 | プラマイナ' ベ小ねじ | SCREW | 2 |
| 37-37 | 87-483 | プラマイナ' ベ小ねじ | SCREW | 2 |
| 37-38 | 87-482 | プラマイナ' ベ小ねじ | SCREW | 2 |
| 37-39 | 87-252 | 六角穴付きボルト | BOLT | 2 |
| 37-40 | 87-265 | 六角穴付き皿ボ' ルト | SCREW | 3 |
| 37-41 | 87-267 | ネジ | SCREW | 2 |
| 37-42 | 88-157 | ナット | NUT | 2 |
| 37-43 | 105-932 | エアチューブ' 4x1500mm | AIR TUBE 4x1500mm | 3 |
| 37-44 | 105-938 | エアチューブ' 4x450mm | AIR TUBE 4x450mm | 1 |
| 37-45 | 105-939 | エアチューブ' 4x500mm | AIR TUBE 4x500mm | 1 |
| 37-46 | 106-597 | プラグ | PLUG | 1 |
| 37-47 | 100-8038 | 糸引き装置 (エア) | WIPER MECHANISM ASS'Y (AIR) | 2 |
| 37-48 | 87-177 | 六角穴付きボルト | BOLT | 2 |
| 37-49 | 87-113 | 六角穴付きボルト | BOLT | 2 |
| 37-50 | 105-966 | 電磁弁3連セット | SOLENOID VALVE ASSEMBLY | 1 |
| 37-51 | 175-538 | ワッシヤ | WASHER | 2 |
| 37-52 | 186-801 | ナット | NUT | 2 |

38. PHK 専用部品 (1) MODEL PHK EXCLUSIVE PARTS (1)



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|----------------|---------------------------|------|
| 38-01 | 07-586 | ブロック | BLOCK | 1 |
| 38-02 | 07-587 | 連結リンク | LINK | 1 |
| 38-03 | 07-588 | 連結リンク | LINK | 1 |
| 38-04 | 07-589 | 駆動ピン | PIN | 1 |
| 38-05 | 07-590 | 角コマ | BLOCK | 1 |
| 38-06 | 07-591 | 上メス調整レハ | LEVER | 1 |
| 38-07 | 07-592 | スプリンクホルダ | SPRING HOLDER | 1 |
| 38-08 | 07-593 | スプリンク止めネジ | LOCK SCREW | 1 |
| 38-09 | 07-594W | 右メス土台 | BRACKET | 1 |
| 38-10 | 07-595 | オリック | O RING | 1 |
| 38-11 | 07-596 | 下メス (厚み 1.5mm) | LOWER KNIFE (THICK 1.5mm) | 1 |
| 38-12 | 07-597 | 上メス | UPPER KNIFE | 1 |
| 38-13 | 07-599 | 下メス土台 | BRACKET | 1 |
| 38-14 | 07-610 | 下メス土台 | BRACKET | 1 |
| 38-15 | 07-611 | 下メス台ガイト | GUIDE PLATE | 1 |
| 38-16 | 07-612 | 調節レハ | STOPPER | 1 |
| 38-17 | 07-613 | フッシュボタン用ホルダ | HOLDER | 1 |
| 38-18 | 07-614 | フッシュボタン | PUSH BOTTON | 1 |
| 38-19 | 07-615 | トロップレハ | LEVER | 1 |
| 38-20 | 07-616W | 横カハ | COVER | 1 |
| 38-21 | 07-617 | 布ガイト | CLOTH GUIDE | 1 |
| 38-22 | 23-124 | フェルト | FELT | 1 |
| 38-23 | 23-341 | フェルト | FELT | 2 |
| 38-24 | 23-512 | クッションゴム | CUSHION RUBBER | 2 |
| 38-25 | 23-554 | フェルト | FELT | 4 |
| 38-26 | 23-566 | 横カハ | GASKET | 1 |
| 38-27 | 67-536 | メス駆動レハ | LEVER | 1 |
| 38-28 | 71-253 | ノックピン | PIN | 2 |
| 38-29 | 71-596 | メスロッド | CONNECTING ROD PIN | 1 |
| 38-30 | 71-634 | 送り上下軸 | FEED LIFT SHAFT | 1 |
| 38-31 | 71-648 | 上メスシャフト | SHAFT | 1 |
| 38-32 | 71-650 | トロップレハ | SHAFT | 1 |
| 38-33 | 71-660 | 上メスリンクピン | LINK PIN | 1 |
| 38-34 | 75-561 | カラー | COLLAR | 3 |
| 38-35 | 79-558 | スプリンク | SPRING | 1 |
| 38-36 | 79-559 | フッシュボタン用レハ | SPRING | 1 |
| 38-37 | 79-568 | 上メスレハ | SPRING | 1 |
| 38-38 | 81-576 | 下メス台 | BUSHING | 1 |
| 38-39 | 81-577 | メス軸 | BUSHING | 1 |
| 38-40 | 84-463 | ネジ | SCREW | 1 |
| 38-41 | 87-010 | 六角穴付きボルト | SCREW | 1 |
| 38-42 | 87-092 | 六角穴付きボルト | BOLT | 2 |
| 38-43 | 87-106 | ネジ | SCREW | 6 |
| 38-44 | 87-112 | 六角穴付きボルト | BOLT | 1 |
| 38-45 | 87-477 | プライマナベ小ねじ | SCREW | 2 |
| 38-46 | 87-181 | ネジ | SCREW | 3 |
| 38-47 | 87-213 | 六角穴付きボルト | BOLT | 2 |
| 38-48 | 87-214 | 六角穴付きボルト | BOLT | 2 |
| 38-49 | 87-234 | ネジ | SCREW | 1 |
| 38-50 | 87-253 | ネジ | SCREW | 1 |
| 38-51 | 87-271 | 六角穴付きボルト | BOLT | 2 |
| 38-52 | 87-276 | 六角穴付きボルト | BOLT | 1 |
| 38-53 | 87-278 | ネジ | SCREW | 1 |
| 38-54 | 93-195 | E形止め輪 | E-RING | 1 |
| 38-55 | 93-506 | スプリンク | SPRING PIN | 1 |
| 38-56 | 87-123 | 六角穴付きボルト | BOLT | 3 |

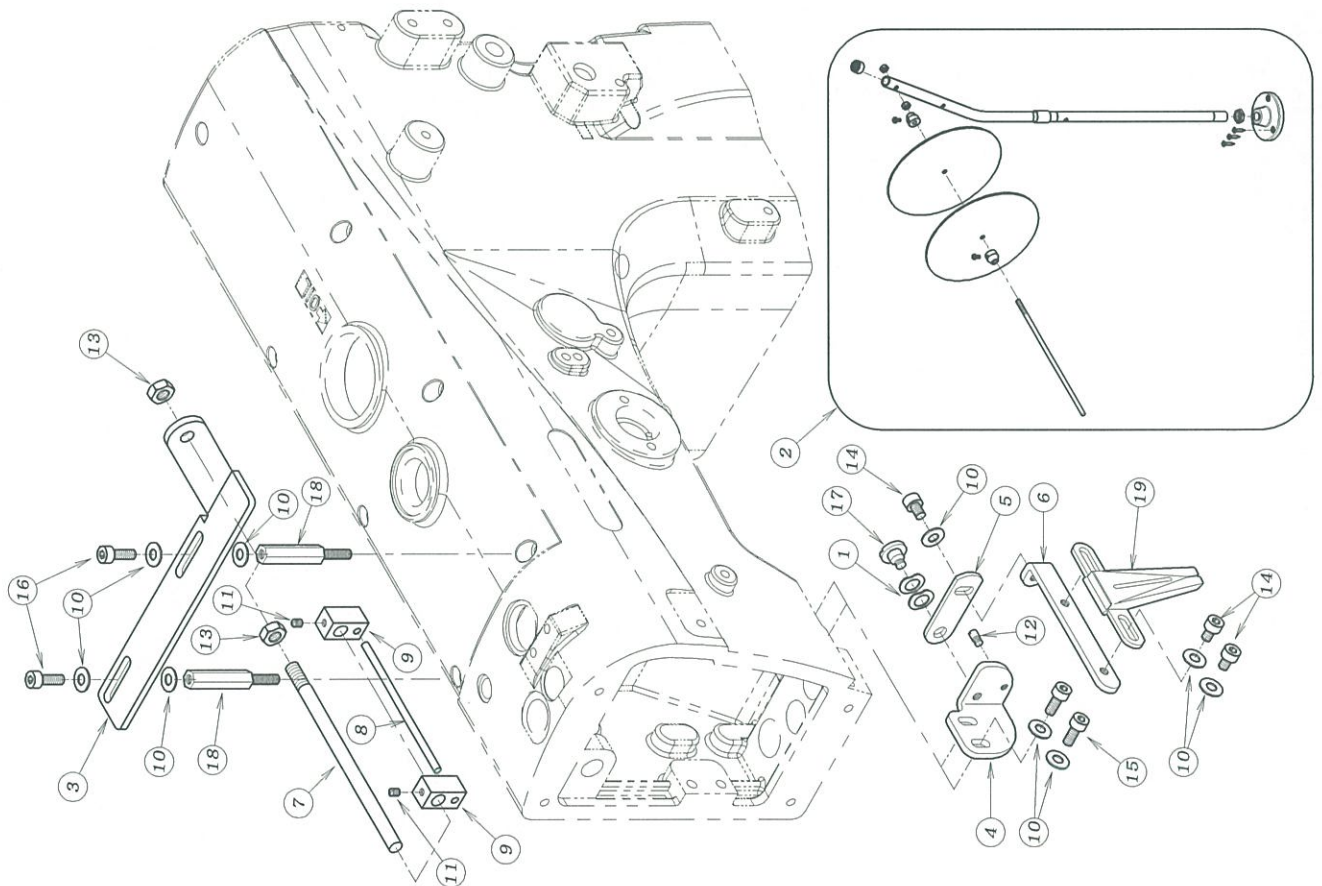
39. PHK専用部品 (2) MODEL PHK EXCLUSIVE PARTS (2)



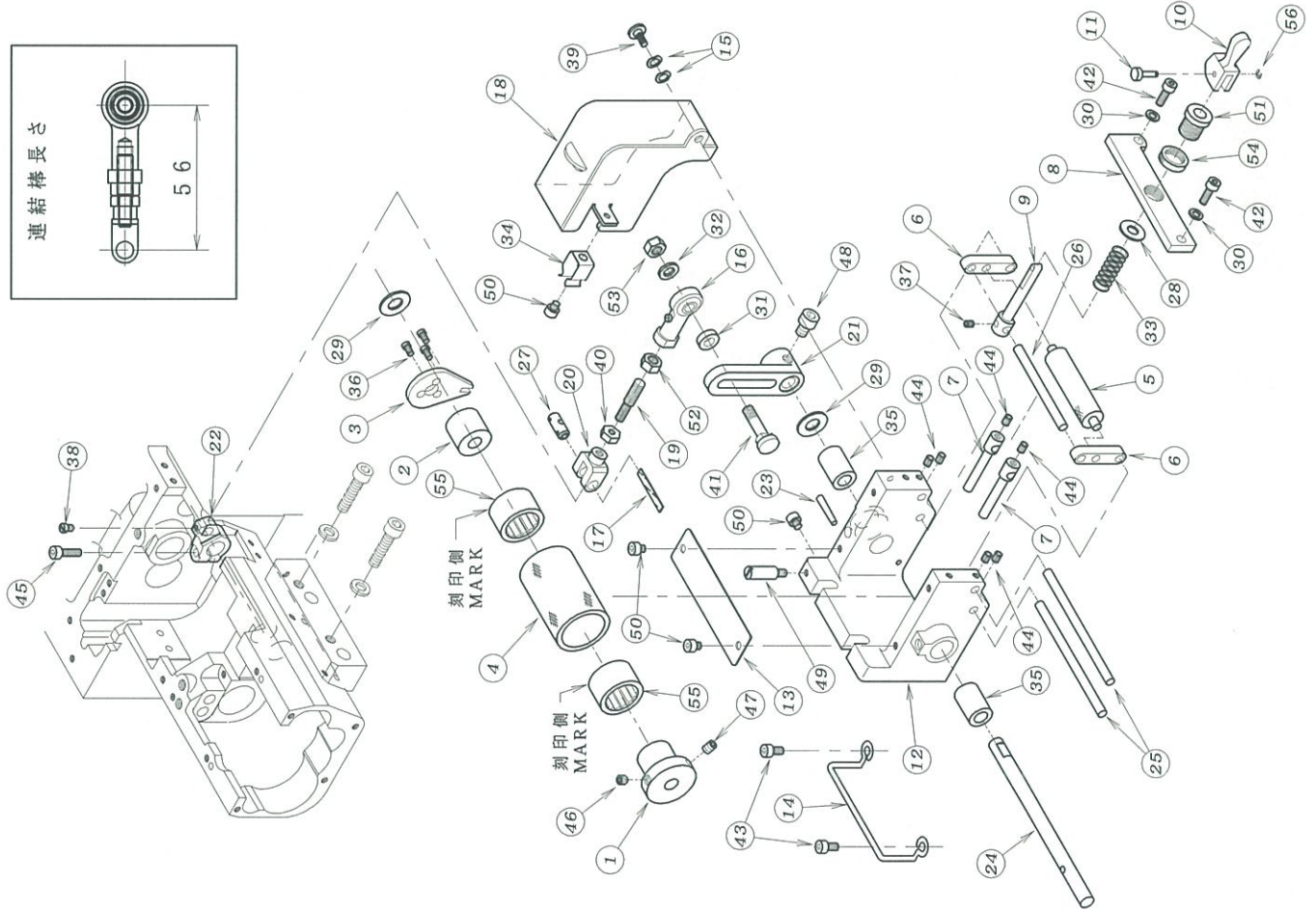
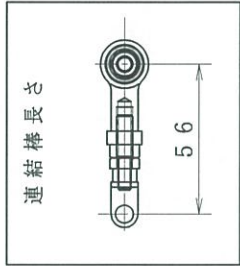
| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|---------------|------------------------|------|
| 39-01 | 07-542 | ホースクランプ | CLAMP | 2 |
| 39-02 | 07-572 | ホース | HOSE | 1 |
| 39-03 | 07-573 | ホースバンド | BAND | 1 |
| 39-04 | 07-574 | 吸込パイプ | PIPE | 1 |
| 39-05 | 07-575 | 吸込パイプ取付プレート | PLATE | 1 |
| 39-06 | 07-577 | ゴムガイド取付棒 | ELASTIC TAPE GUIDE BAR | 1 |
| 39-07 | 07-578 | ゴムガイド | ELASTIC GUIDE | 1 |
| 39-08 | 07-579 | ガイド棒用ストッパー | STOPPER | 1 |
| 39-09 | 07-580 | ガイド棒取付台 | BRACKET | 1 |
| 39-10 | 07-581 | 支柱ネジ | SCREW | 1 |
| 39-11 | 07-582 | ガイド棒 | GUIDE BAR | 1 |
| 39-12 | 07-619 | 布押え取付棒 | SHAFT | 1 |
| 39-13 | 07-620 | 布押え | FABRIC GUIDE | 1 |
| 39-14 | 09-607 | レバ取付ピン | PIN | 1 |
| 39-15 | 09-608 | クランプレバ | CLAMP LEVER | 1 |
| 39-16 | 09-610 | 上ローラー Bracket | BRACKET | 1 |
| 39-17 | 09-611 | ガイドカラー | COLLAR | 1 |
| 39-18 | 09-612 | 前ローラー | FRONT ROLLER | 1 |
| 39-19 | 09-613 | 上ローラー軸 | UPPER ROLLER SHAFT | 1 |
| 39-20 | 14-170 | 針板土台 | NEEDLE SUPPORT BRACKET | 1 |
| 39-21 | 21-799W | 差板補助カバー | COVER | 1 |
| 39-22 | 27-026 | 差板 | SLIDE COVER | 1 |
| 39-23 | 27-027W | 定規板 | FRONT COVER | 1 |
| 39-24 | 27-028W | 定規台 | FRONT COVER | 1 |
| 39-25 | 75-441 | ワッシャー | WASHER | 2 |
| 39-26 | 75-453 | ワッシャー | WASHER | 1 |
| 39-27 | 75-455 | ワッシャー | WASHER | 1 |
| 39-28 | 75-458 | ワッシャー | WASHER | 2 |
| 39-29 | 75-468 | ワッシャー | WASHER | 2 |
| 39-30 | 75-556 | カラー | COLLAR | 1 |
| 39-31 | 79-071 | 巻ハネ | SPRING | 1 |
| 39-32 | 84-314 | ネジ | SCREW | 2 |
| 39-33 | 87-092 | 六角穴付きボルト | BOLT | 2 |
| 39-34 | 87-099 | ネジ | SCREW | 2 |
| 39-35 | 87-113 | 六角穴付きボルト | BOLT | 2 |
| 39-36 | 87-172 | ネジ | SCREW | 3 |
| 39-37 | 87-224 | 六角穴付きボルト | BOLT | 2 |
| 39-38 | 87-274 | ネジ | SCREW | 1 |
| 39-39 | 87-286 | ネジ | SCREW | 5 |
| 39-40 | 87-902 | 木ネジ | SCREW | 4 |
| 39-41 | 88-146 | ナット | NUT | 1 |
| 39-42 | 88-157 | ナット | NUT | 1 |
| 39-43 | 07-576 | ゴムガイド取付台 | BRACKET | 1 |
| 39-44 | 187-409 | ネジ | SCREW | 1 |

40. 9702L専用部品 MODEL 9702L EXCLUSIVE PARTS

| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|--------------------|--------------|------|
| 40-01 | 02-119 | 波座金 | WASHER | 2 |
| 40-02 | 20-6020 | テープ立て | TAPE STAND | 1 |
| 40-03 | 26-606 | コ・ムア° - ラー案内板 | BRACKET | 1 |
| 40-04 | 26-608 | ブラケットA | BRACKET A | 1 |
| 40-05 | 26-609 | ブラケットB | BRACKET B | 1 |
| 40-06 | 26-610 | ブラケットC | BRACKET C | 1 |
| 40-07 | 26-751 | コ・ムア° - ラー取付棒 | BAR | 1 |
| 40-08 | 26-752 | コ・ムア° - ラー案内棒 | BAR | 1 |
| 40-09 | 26-753 | コ・ムア° - ラー取付金具 | BRACKET | 2 |
| 40-10 | 75-455 | ワッシャ | WASHER | 9 |
| 40-11 | 84-112 | ネジ | SCREW | 2 |
| 40-12 | 84-114 | ネジ | SCREW | 1 |
| 40-13 | 86-411 | ナット | NUT | 2 |
| 40-14 | 87-092 | 六角穴付きボルト | BOLT | 3 |
| 40-15 | 87-113 | 六角穴付きボルト | BOLT | 2 |
| 40-16 | 87-129 | 六角穴付きボルト | BOLT | 2 |
| 40-17 | 87-264 | 板ネジ | SCREW | 1 |
| 40-18 | 87-309 | 支柱ネジ | SCREW | 2 |
| 40-19 | 97-5010-1 | ハ・インダ° - セット (9mm) | FOLDER ASS'Y | 1 |



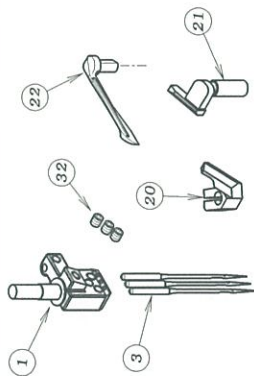
41. MD機構 METERING DEVICE MECHANISM



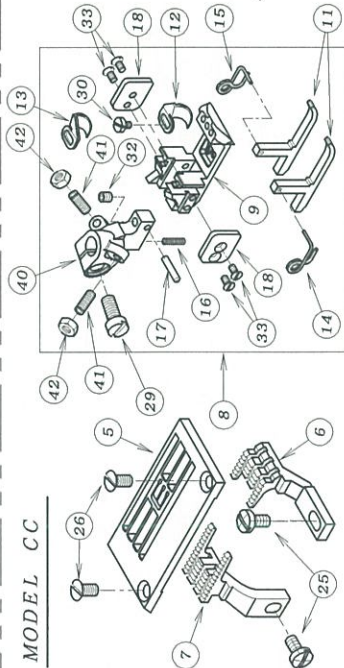
| REF. NO. | PART NO. | 品名 | DESCRIPTION | QTY |
|--------------|----------------|----------------|----------------------|-----|
| 41-01101-102 | フタ側スリーブ | フタ側スリーブ | SLEEVE | 1 |
| 41-02101-103 | 連結板側スリーブ | 連結板側スリーブ | SLEEVE | 1 |
| 41-03101-116 | 前フーラー回り止め蓋 | 前フーラー回り止め蓋 | PLATE | 1 |
| 41-04101-132 | 前フーラーローレット | 前フーラーローレット | PULLER | 1 |
| 41-05101-134 | 前フーラー小ローラー | 前フーラー小ローラー | LOWER ROLLER | 1 |
| 41-06101-136 | 前フーラーローラー取り付金具 | 前フーラーローラー取り付金具 | ROLLER HOLDER | 2 |
| 41-07101-138 | 前フーラーコ・A案内金具 | 前フーラーコ・A案内金具 | PIVOT SHAFT HOLDER | 2 |
| 41-08101-141 | 前フーラー締め金具 | 前フーラー締め金具 | RUBBER TIGHTENER | 1 |
| 41-09101-143 | 小ローラー締め金具 | 小ローラー締め金具 | ROLLER CONTROLLER | 1 |
| 41-10101-145 | ワンタッチレバ | ワンタッチレバ | LEVER | 1 |
| 41-11101-147 | レバ・連結ピン | レバ・連結ピン | PIN | 1 |
| 41-12101-153 | 前フーラー土台 | 前フーラー土台 | BRACKET | 1 |
| 41-13101-154 | 前フーラーカバー | 前フーラーカバー | COVER | 1 |
| 41-14101-155 | 前フーラー台取付ガイド | 前フーラー台取付ガイド | GUIDE | 1 |
| 41-15102-118 | 滾ワッシャ | 滾ワッシャ | WASHER | 2 |
| 41-16105-954 | ロットメント | ロットメント | ROD | 1 |
| 41-17123-341 | フェルト | フェルト | FELT | 1 |
| 41-18127-168 | 前フーラー連結レバカバー | 前フーラー連結レバカバー | COVER | 1 |
| 41-19165-337 | 前フーラー連結棒 | 前フーラー連結棒 | CONNECTING BAR | 1 |
| 41-20166-131 | 連結片メカネ | 連結片メカネ | CONNECTING LINK | 1 |
| 41-21167-419 | 前フーラー連結レバ | 前フーラー連結レバ | LEVER | 1 |
| 41-22167-533 | 連結レバ | 連結レバ | LEVER | 1 |
| 41-23171-227 | テハ・ピン | テハ・ピン | PIN | 1 |
| 41-24171-350 | 前フーラー土台シャフト | 前フーラー土台シャフト | SHAFT | 1 |
| 41-25171-361 | 案内棒大 | 案内棒大 | PIVOT SHAFT (LARGE) | 2 |
| 41-26171-362 | 案内棒小 | 案内棒小 | PIVOT SHAFT (SMALL) | 1 |
| 41-27171-432 | メカネピン | メカネピン | FEED ROCKER LINK PIN | 1 |
| 41-28175-446 | ワッシャ | ワッシャ | WASHER | 1 |
| 41-29175-451 | ワッシャ | ワッシャ | WASHER | 2 |
| 41-30175-468 | ワッシャ | ワッシャ | WASHER | 2 |
| 41-31175-480 | ワッシャ | ワッシャ | WASHER | 1 |
| 41-32175-552 | ワッシャ | ワッシャ | WASHER | 1 |
| 41-33179-171 | 圧縮バネ | 圧縮バネ | SPRING | 1 |
| 41-34179-912 | バネ | バネ | SPRING | 1 |
| 41-35181-125 | ブッシュ | ブッシュ | BUSHING | 2 |
| 41-36184-162 | ネジ | ネジ | SCREW | 3 |
| 41-37184-314 | ネジ | ネジ | SCREW | 1 |
| 41-38184-365 | ネジ | ネジ | SCREW | 1 |
| 41-39184-396 | 歯ネジ | 歯ネジ | SCREW | 1 |
| 41-40186-701 | ナット | ナット | NUT | 1 |
| 41-41187-006 | ロットメント止ネジ | ロットメント止ネジ | SCREW | 1 |
| 41-42187-129 | 六角穴付きボルト | 六角穴付きボルト | BOLT | 2 |
| 41-43187-177 | 六角穴付きボルト | 六角穴付きボルト | BOLT | 2 |
| 41-44187-181 | ネジ | ネジ | SCREW | 6 |
| 41-45187-214 | 六角穴付きボルト | 六角穴付きボルト | BOLT | 1 |
| 41-46187-253 | ネジ | ネジ | SCREW | 1 |
| 41-47187-254 | ネジ | ネジ | SCREW | 1 |
| 41-48187-255 | 六角穴付きボルト | 六角穴付きボルト | BOLT | 1 |
| 41-49187-268 | カムストップネジ | カムストップネジ | SCREW | 1 |
| 41-50187-287 | 六角穴付きボルト | 六角穴付きボルト | BOLT | 4 |
| 41-51187-456 | 調節ネジ | 調節ネジ | SCREW | 1 |
| 41-52188-161 | ナット | ナット | NUT | 1 |
| 41-53188-166 | ナット | ナット | NUT | 1 |
| 41-54188-456 | ナット | ナット | NUT | 1 |
| 41-55191-405 | ワンウェイクラッチ | ワンウェイクラッチ | BEARING | 2 |
| 41-56193-200 | ストップリンク | ストップリンク | E-RING | 1 |

42. ゲージ関係 (1) GAUGE PARTS (1)

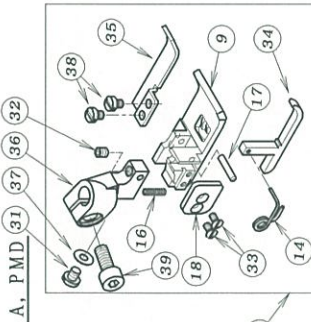
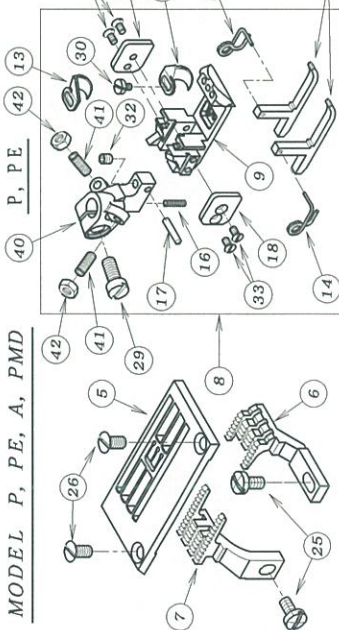
STANDARD



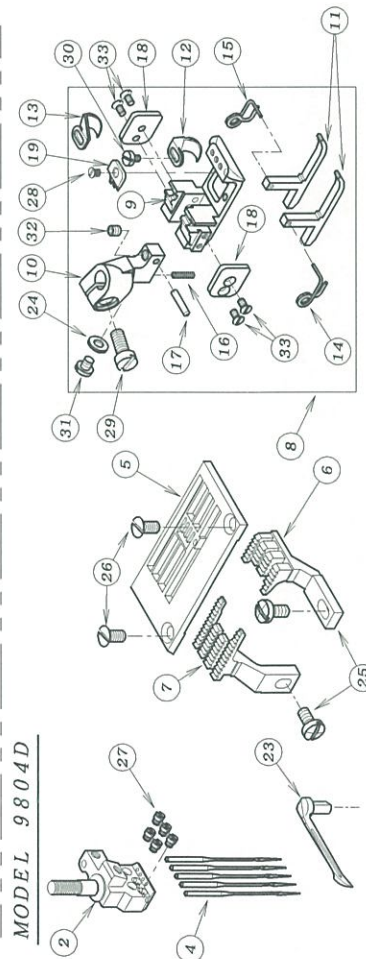
MODEL CC



MODEL P, PE, A, PMD



MODEL 9804D

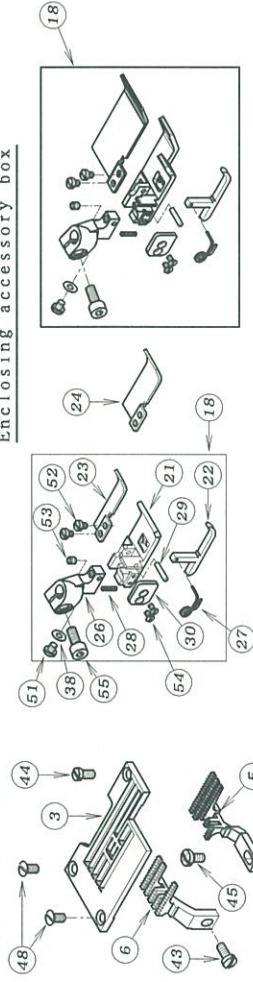


| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|------------------|--------------------|------|
| 42-01 | * | 針株 | NEEDLE HOLDER | 1 |
| 42-02 | * | 針株 | NEEDLE HOLDER | 1 |
| 42-03 | 13-0110-6 | 針(UYX128GAS #11) | NEEDLE | 3 |
| 42-04 | 13-3020-5 | 針(SM1014H #10S) | NEEDLE | 5 |
| 42-05 | * | 針版 | NEEDLE PLATE | 1 |
| 42-06 | * | 前送歯 | FRONT FEED DOG | 1 |
| 42-07 | * | 後送歯 | REAR FEED DOG | 1 |
| 42-08 | * | 押えゼット | PRESSER FOOT ASS'Y | 1 |
| 42-09 | * | 押え足 | BOTTOM | 1 |
| 42-10 | 17-7680-A | 押え足ボス | SHANK | 1 |
| 42-11 | 17-7680-B | 補助押え足 | GUIDE | 2 |
| 42-12 | 17-7680-K | 生地カイト | GUIDE | 1 |
| 42-13 | 17-7680-L | 生地カイト | GUIDE | 1 |
| 42-14 | 17-8190-D | 補助押え足ハネ(左) | SPRING (LEFT) | 1 |
| 42-15 | 17-8190-E | 補助押え足ハネ(右) | SPRING (RIGHT) | 1 |
| 42-16 | 17-8190-F | ハネ | SPRING | 1 |
| 42-17 | 17-8190-G | ピン | PIN | 1 |
| 42-18 | 17-8190-J | カイトプレート | GUIDE PLATE | 2 |
| 42-19 | 17-8430-B | 押え爪 | STITCH TONGUE | 1 |
| 42-20 | 18-805 | 針受 | NEEDLE GUARD | 1 |
| 42-21 | 18-806 | 針カイト | NEEDLE GUIDE | 1 |
| 42-22 | 19-525 | ルーパー | LOOPER | 1 |
| 42-23 | 19-534 | ルーパー | LOOPER | 1 |
| 42-24 | 175-228 | ワッシャ | WASHER | 1 |
| 42-25 | 184-374 | ネジ | SCREW | 2 |
| 42-26 | 184-464 | ネジ | SCREW | 2 |
| 42-27 | 185-603 | ネジ | SCREW | 5 |
| 42-28 | 185-616 | ネジ | SCREW | 1 |
| 42-29 | 187-034 | ネジ | SCREW | 1 |
| 42-30 | 187-035 | ネジ | SCREW | 1 |
| 42-31 | 187-083 | ネジ | SCREW | 1 |
| 42-32 | 187-104 | ネジ | SCREW | * |
| 42-33 | 187-107 | ネジ | SCREW | 4 |
| 42-34 | 17-8120-E | 補助押え足 | GUIDE | 1 |
| 42-35 | 17-8120-F | 板押え(幅装) | GUIDE PLATE (S) | 1 |
| 42-36 | 17-8190-A | 押え足ボス | SHANK | 1 |
| 42-37 | 175-441 | ワッシャ | WASHER | 1 |
| 42-38 | 187-093 | ネジ | SCREW | 2 |
| 42-39 | 187-113 | 六角穴付きボルト | BOLT | 1 |
| 42-40 | 17-9380-A | 押え足ボス | SHANK | 1 |
| 42-41 | 187-071 | ネジ | SCREW | 2 |
| 42-42 | 188-136 | ナット | NUT | 2 |

* 各ゲージ部品の品番は、52ページのゲージハーツ表を参照して下さい。
* Please refer to Page 52 GAUGE PARTS LIST

43. ゲージ関係 (2) GAUGE PARTS (2)

MODEL ALK

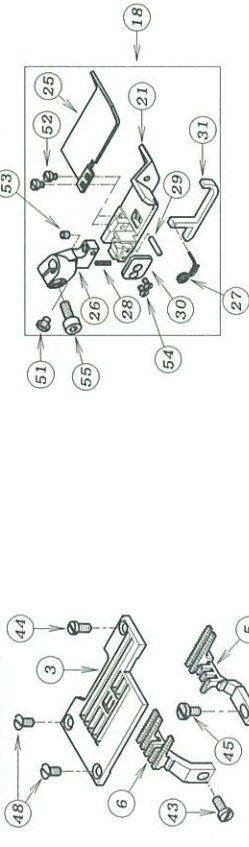


同梱部品

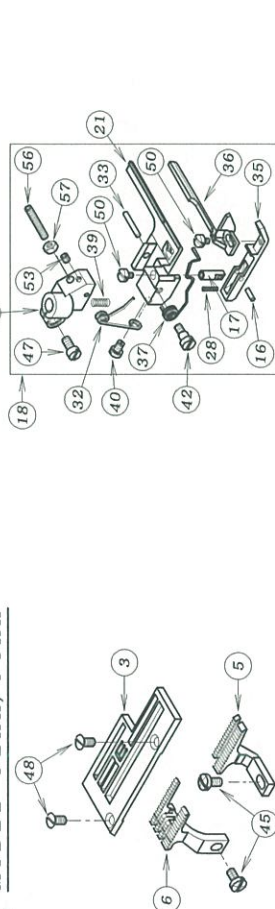
Enclosing accessory box



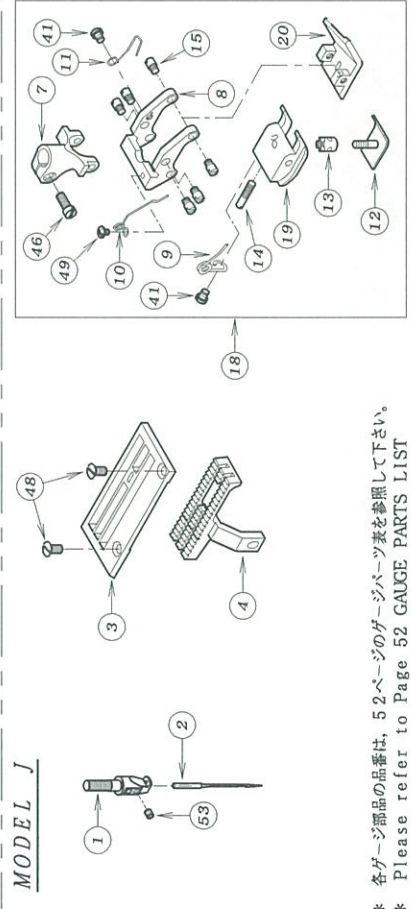
MODEL PLK



MODEL PEHK, PGHK



MODEL J

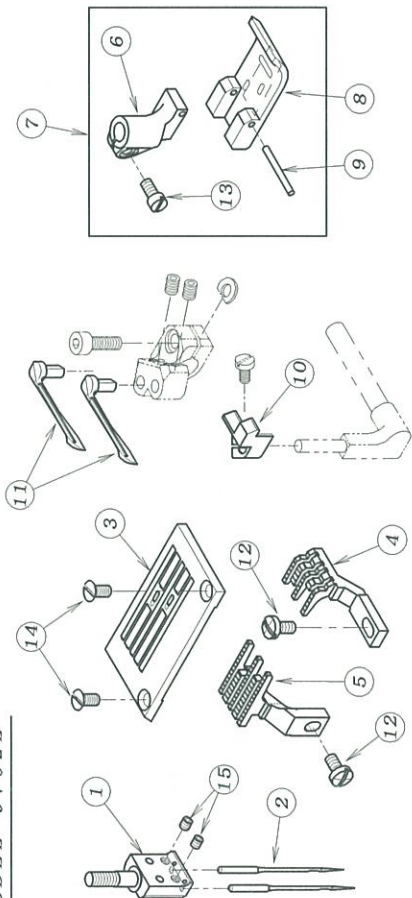


| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|-------------|-----------------------|------|
| 43-01 | * | 針株 | NEEDLE HOLDER | 1 |
| 43-02 | 13-1510-5 | 針 T VX5 #21 | NEEDLE | 1 |
| 43-03 | * | 針板 | NEEDLE PLATE | 1 |
| 43-04 | 15-800 | 送備 | FEED DOG | 1 |
| 43-05 | * | 前送備 | FRONT FEED DOG | 1 |
| 43-06 | * | 後送備 | REAR FEED DOG | 1 |
| 43-07 | 17-5530-A | 押えホース | SHANK | 1 |
| 43-08 | 17-5530-C | 押え足ホルダ | BOTTOM HOLDER | 1 |
| 43-09 | 17-5530-D | 押えカイト足ハネ | SPRING | 1 |
| 43-10 | 17-5530-F | 押え足後ハネ | SPRING | 1 |
| 43-11 | 17-5530-G | 押え足ハネ | SPRING | 1 |
| 43-12 | 17-5530-H | 押えカイト足 | GUIDE | 1 |
| 43-13 | 17-5530-I | 押えカイト足調節ナット | NUT | 1 |
| 43-14 | 17-5530-J | 押え足固定ネジ | SCREW | 1 |
| 43-15 | 17-5530-K | ネジ | SCREW | 6 |
| 43-16 | 17-7760-D | ピン | PIN | 1 |
| 43-17 | 17-7760-F | カイト足金具 | GUIDE PIN | 1 |
| 43-18 | * | 押えセット | PRESSER FOOT ASSEMBLY | 1 |
| 43-19 | 17-8000-A | 押え足 (後) | BOTTOM (REAR) | 1 |
| 43-20 | 17-8000-B | 押え足 (前) | BOTTOM (FRONT) | 1 |
| 43-21 | * | 押え足 | BOTTOM | 1 |
| 43-22 | 17-8120-E | 補助押え足 | GUIDE | 1 |
| 43-23 | 17-8120-F | 布押え (幅狭) | GUIDE PLATE (S) | 1 |
| 43-24 | 17-8120-G | 布押え (幅広) | GUIDE PLATE (L) | 1 |
| 43-25 | 17-8140-D | 布押え (コム入れ用) | GUIDE PLATE | 1 |
| 43-26 | 17-8190-A | 押え足ホース | SHANK | 1 |
| 43-27 | 17-8190-D | 補助押え足ハネ (左) | SPRING (LEFT) | 1 |
| 43-28 | 17-8190-F | ハネ | SPRING | 1 |
| 43-29 | 17-8190-G | ピン | PIN | 1 |
| 43-30 | 17-8190-J | カイトプレート | GUIDE PLATE | 1 |
| 43-31 | 17-8220-B | 補助押え足 | GUIDE | 1 |
| 43-32 | 17-8260-F | 押え足金具ハネ | SPRING | 1 |
| 43-33 | 17-8260-G | ピン | PIN | 1 |
| 43-34 | 17-8290-D | 押えホース | SHANK | 1 |
| 43-35 | 17-9290-B | 押えカイト足 | GUIDE | 1 |
| 43-36 | 17-9290-C | コム当て定規 | ELASTIC TAPE GUIDE | 1 |
| 43-37 | 17-9290-D | カイト足ハネ | SPRING | 1 |
| 43-38 | 175-441 | ワッシャー | WASHER | 1 |
| 43-39 | 179-191 | ハネ | SPRING | 1 |
| 43-40 | 184-161 | ネジ | SCREW | 1 |
| 43-41 | 184-167 | ネジ | SCREW | 2 |
| 43-42 | 184-171 | 散ネジ | SCREW | 1 |
| 43-43 | 184-360 | ネジ | SCREW | 1 |
| 43-44 | 184-362 | ネジ | SCREW | 1 |
| 43-45 | 184-374 | ネジ | SCREW | 1 |
| 43-46 | 184-376 | ネジ | SCREW | 1 |
| 43-47 | 184-382 | ネジ | SCREW | 1 |
| 43-48 | 184-464 | ネジ | SCREW | 2 |
| 43-49 | 185-611 | ネジ | SCREW | 1 |
| 43-50 | 185-621 | ネジ | SCREW | 2 |
| 43-51 | 187-083 | ネジ | SCREW | 1 |
| 43-52 | 187-093 | ネジ | SCREW | 2 |
| 43-53 | 187-104 | ネジ | SCREW | 2 |
| 43-54 | 187-107 | ネジ | SCREW | 2 |
| 43-55 | 187-113 | 六角穴付きボルト | BOLT | 1 |
| 43-56 | 187-130 | ネジ | SCREW | 1 |
| 43-57 | 188-136 | ナット | NUT | 1 |

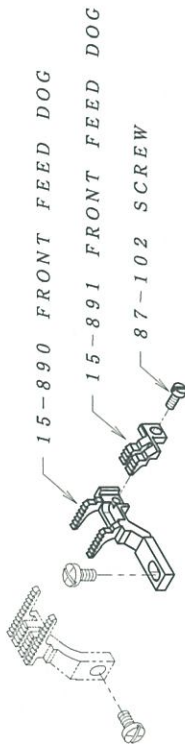
* 各ゲージ部品の品番は、52ページのゲージパーツ表を参照して下さい。
* Please refer to Page 52 GAUGE PARTS LIST

44. ゲージ関係 (3) GAUGE PARTS (3)

MODEL 9702L



OPTION PARTS FOR CC



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|-------------------|-----------------------|------|
| 44-01 | 12-563 | 針株 (1/4) | NEEDLE HOLDER | 1 |
| 44-02 | 13-0110-6 | 針 (UYX128GAS #11) | NEEDLE | 2 |
| 44-03 | 14-563 | 針板 (1/4) | NEEDLE HOLDER | 1 |
| 44-04 | 15-769 | 前送歯 | FEED DOG FRONT | 1 |
| 44-05 | 15-770 | 後送歯 | FEED DOG REAR | 1 |
| 44-06 | 17-4430-A | 押えホース | SHANK | 1 |
| 44-07 | 17-5480-B | 押え足フープ | PRESSER FOOT ASSEMBLY | 1 |
| 44-08 | 17-5480-B | 押え足フープ 付け用 (1/4) | BOTTOM | 1 |
| 44-09 | 17-5480-G | 平行ピン | PIN | 1 |
| 44-10 | 18-769 | 針受後 | NEEDLE GUARD REAR | 1 |
| 44-11 | 19-525 | ルーパー | LOOPER | 2 |
| 44-12 | 184-374 | ネジ | SCREW | 2 |
| 44-13 | 184-382 | ネジ | SCREW | 1 |
| 44-14 | 184-464 | ネジ | SCREW | 2 |
| 44-15 | 187-104 | ネジ | SCREW | 2 |

* 各ゲージ部品の品番は、52ページのゲージパーツ表を参照して下さい。
 * Please refer to Page 52 GAUGE PARTS LIST

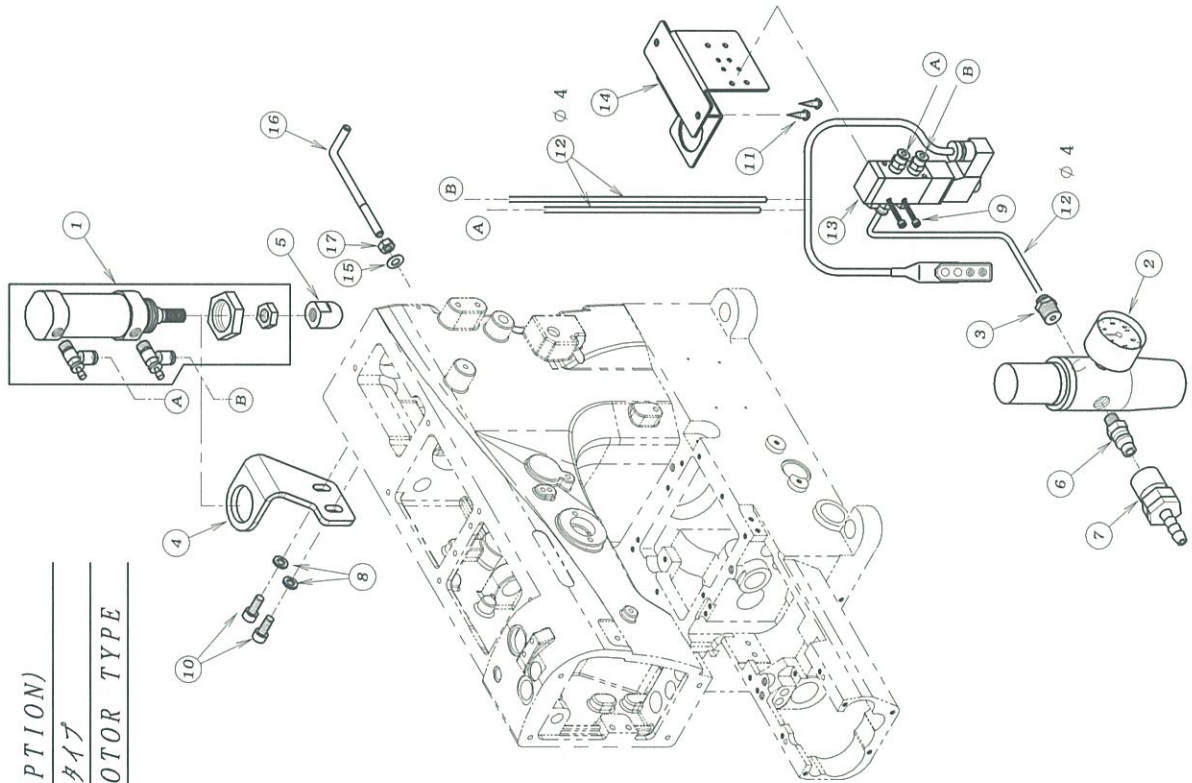
45. 押え揚げ装置 (エア-式) FL-8

FOOT LIFTER MECHANISM (PNEUMATIC TYPE) FL-8

オプション (OPTION)

サーボモータータイプ

SERVO MOTOR TYPE



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|-----------|----------------|----------------------|------|
| 45-01 | 00-6082 | 押え揚げシリンダーセット | AIR CYLINDER ASS'Y | 1 |
| 45-02 | 05-2120-A | フィルタレギュレータ | REGULATOR | 1 |
| 45-03 | 05-217 | レギュレーター用継手 | JOINT | 1 |
| 45-04 | 77-032 | 押え揚げシリンダーブラケット | BRACKET | 1 |
| 45-05 | 05-897 | シリンダー作動チップ | CHIP | 1 |
| 45-06 | 06-516 | カプラメス | CONNECTOR | 1 |
| 45-07 | 06-517 | カプラオス | CONNECTOR | 1 |
| 45-08 | 75-552 | ワッシャー | WASHER | 2 |
| 45-09 | 87-438 | 六角穴付ボルト | SCREW | 2 |
| 45-10 | 87-171 | 六角穴付ボルト | SCREW | 2 |
| 45-11 | 87-902 | 木ネジ | SCREW | 2 |
| 45-12 | 05-979 | チューブφ4x700mm | TUBE (φ4x700L) | 3 |
| 45-13 | 05-982 | 電磁弁セット | SOLENOID VALVE ASS'Y | 1 |
| 45-14 | 05-644 | 電磁弁取付板 | BRACKET | 1 |
| 45-15 | 75-452 | ワッシャー | WASHER | 1 |
| 45-16 | 05-292 | ボジショナーバー | BAR | 1 |
| 45-17 | 88-166 | ナット | NUT | 1 |

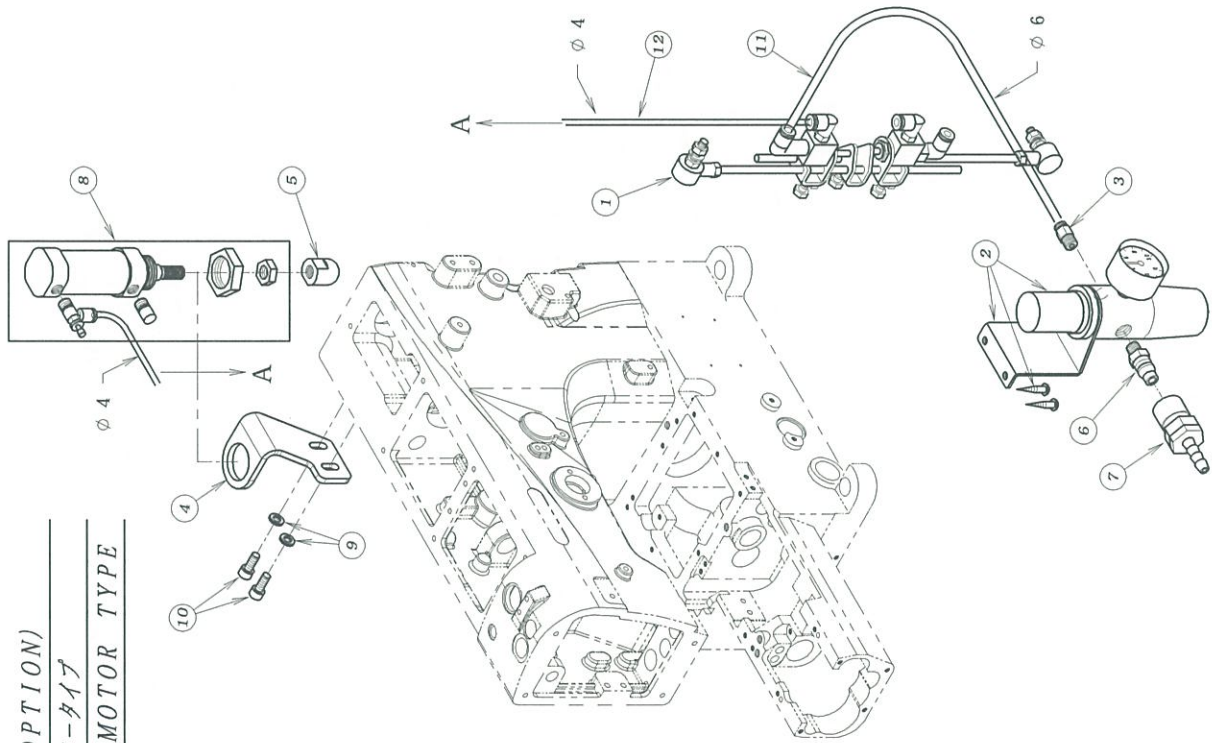
46. 押え揚げ装置 (エア-式) FL-9

FOOT LIFTER MECHANISM (PNEUMATIC TYPE) FL-9

オプション (OPTION)

クラッチモータータイプ

CLUTCH MOTOR TYPE



| REF. NO. | PART NO. | 品名 | DESCRIPTION | Q'TY |
|----------|----------|--|--|------|
| 46-01 | 00-8040 | 吸込み押え揚げ用バルブセット | TREADLE AIR SWITCH ASS'Y | 1 |
| 46-02 | 05-212 | フィルダレギュレータ | REGULATOR | 1 |
| 46-03 | 05-218 | レギュレータ-用継手 | JOINT | 1 |
| 46-04 | 77-032 | 押え揚げシリンダー-ブラケット | BRACKET | 1 |
| 46-05 | 05-897 | シリンダー-作動チップ | CHIP | 1 |
| 46-06 | 06-516 | カプラメス | CONNECTOR | 1 |
| 46-07 | 06-517 | カプラオス | CONNECTOR | 1 |
| 46-08 | 00-6130 | 押え揚げシリンダー-セット | AIR CYLINDER ASS'Y | 1 |
| 46-09 | 75-552 | ワッシャー | WASHER | 2 |
| 46-10 | 87-171 | 六角穴付ボルト | SCREW | 2 |
| 46-11 | 05-486 | チューブ$\phi 6 \times 1000\text{mm}$ | TUBE ($\phi 6 \times 1000\text{mm}$) | 1 |
| 46-12 | 05-932 | チューブ$\phi 4 \times 1500\text{mm}$ | TUBE ($\phi 4 \times 1500\text{mm}$) | 1 |

47. ゲージパーツ表 GAUGE PARTS LIST

| 機種 MODEL | タイプ TYPE | 針数 NEEDLE | ゲージ GAUGE | 針株 NEEDLE HOLDER | 押え組 PRESSER FOOT ASS'Y | 後送り歯 FEED DOG (REAR) | 前送り歯 FEED DOG (FRONT) | 針板 NEEDLE PLATE Standard | ルーパー LOOPER | 上飾り ルーパー SPREADER | 針受 (後) NEEDLE GUARD (REAR) | 針ガイド (前) NEEDLE GUARD (FRONT) |
|-------------|-------------|--------------|--------------|------------------------|------------------------------|-------------------------------|--------------------------------|-----------------------------------|----------------|-------------------------|-------------------------------------|--|
| NR | CC | | 7/32 | 12-0260-1 | 17-9380-1 | 15-881 | 15-880 | 14-871 | 19-525 | 19-751 (None UT) | 18-805 | 18-806 |
| | | | | 12-0270-1 | 17-9390-1 | ★15-861 | ★15-862 | ★14-846 | | | | |
| | A | | 7/32 | 12-0260-1 | 17-8120-1 | 15-881 | 15-880 | 14-871 | | | | |
| | | | | 12-0270-1 | 17-8130-1 | 15-881 | 15-880 | 14-880 | | | | |
| | P | | 7/32 | 12-0260-1 | 17-9380-1 | 15-881 | 15-880 | 14-871 | | | | |
| | | | | 12-0270-1 | 17-9390-1 | 15-881 | 15-880 | 14-880 | | | | |
| | ALK | | 7/32 | 12-0260-1 | 17-8120-1 | 15-854 | 15-784 | 14-781 | | | | |
| | | | | 12-0270-1 | ★17-9360-1 | | | 14-782 | | | | |
| | | | | 12-0270-1 | 17-8130-1 | | | 14-812 | | | | |
| | | | | 12-0270-1 | ★17-9370-1 | | | 14-813 | | | | |
| | PLK | | 7/32 | 12-0260-1 | 17-8150-1 | 15-853 | 14-812 | | | | | |
| | | | | 12-0270-1 | 17-8160-1 | 14-813 | | | | | | |
| | PEHK | | 7/32 | 12-0260-1 | 17-9290-1 | 15-869 | 15-868 | 14-929 | | | | |
| | | | | 12-0270-1 | 17-9300-1 | | | 14-930 | | | | |
| | D | | 6mm | 12-8480-1 | 17-7120-1 | 15-883 | 15-882 | 14-712 | | | | |
| | | | | 12-8490-1 | 17-8430-1 | | | 14-849 | | | | |
| | J | | 7/32 | 12-8770-1 | 17-8000-1 | 15-800 | 15-800 | 14-800 | | | | |
| | | | | 12-0260-1 | 17-8120-1 | | | 14-890 | | | | |
| | PMD | | 1/4 | 12-0270-1 | 17-8130-1 | 15-858 | 15-857 | 14-891 | | | | |
| | | | | 12-0270-1 | 17-8130-1 | | | 19-525 | | | | |

★同梱部品です。★ Enclosing accessory box

* その他、特殊ステッチ対応針板品番は、53ページのゲージパーツ表を参照して下さい。

* Please refer to Page 53 GAUGE PARTS LIST for special needle plate.

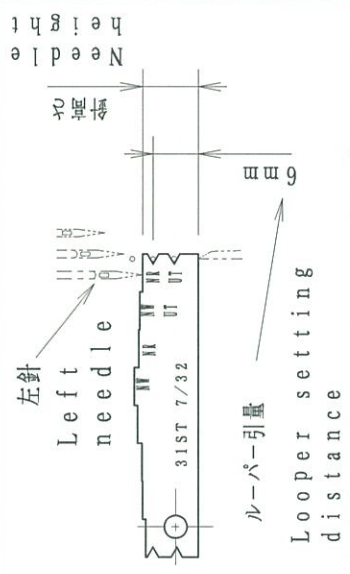
48. 特注針板パーツ表 EXTRA NEEDLE PLATE PARTS LIST

| 機種 MODEL | タイプ TYPE | 針数 NEEDLE | ゲージ GAUGE | 標準 Standard 針板 NEEDLE PLATE | ロングステッチ For long stitch | ショートステッチ For short stitch | かまぼこ防止用Uタイプ For soft stitch formation | かまぼこ防止用Kタイプ For soft stitch formation |
|-------------|-------------|--------------|--------------|---|----------------------------|------------------------------|--|--|
| | | | | | 針板 NEEDLE PLATE | 針板 NEEDLE PLATE | 針板 NEEDLE PLATE | 針板 NEEDLE PLATE |
| NR | CC | 3 | 7/32 | 14-871 | 14-871L | 14-871S | 14-871U | 14-871K |
| | P | | 1/4 | 14-880 | 14-880L | 14-880S | 14-880U | 14-880K |
| | PE | 3 | 7/32 | 14-812 | 14-812L | 14-812S | | 19-533 (None UT) |
| | PLK | | 1/4 | 14-813 | 14-813L | 14-813S | | 14-812K |
| | | | | | | | | |
| | | | | | | | | |

* ルーパー台の組み合わせは、8ページを参照して下さい。
 * Please refer to Page 8 for Looper holder assembly.

特注パーツ EXTRA PARTS

| 針棒ストローク STROKE | ゲージ GAUGE | 針高さ、ルーパーゲージ NEEDLE & LOOPER SETTING GAUGE |
|-------------------|--------------|---|
| 31mm | 7/32 | 16-8221 |
| | 1/4 | |
| 33mm | 7/32 | 16-8222 |
| | 1/4 | |



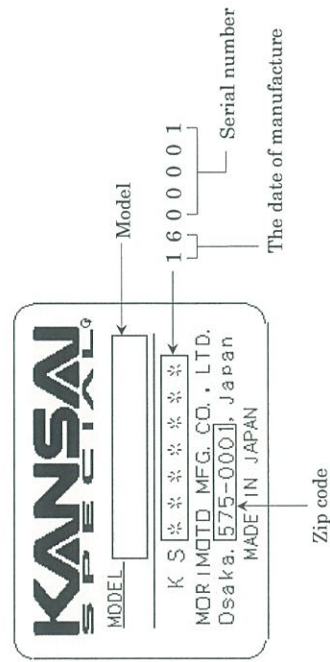
***NR** Series Instruction Manual*

INTRODUCTION

Thank you for your purchasing Kansai Special's NR Series.
Read and study this instruction manual carefully before beginning any of the procedures and save it for later use.

1. This instruction manual describes adjustments and maintenance procedures on this machine.
2. Before starting the machine, check to make sure the pulley cover, safety cover, etc. are secured.
3. Before adjusting, cleaning, threading the machine or replacing the needle, be sure to turn off the power.
4. Never start the machine with no oil in the reservoir.
5. Refer to the parts list as well as this instruction manual before maintenance. If the machine includes a thread trimmer, read and study the instruction manual for the thread trimmer carefully.
6. The contents described in this instruction manual are subject to change without notice.

Indication of serial number



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[1] NEEDLES & THREADING

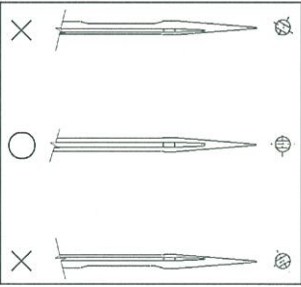
1-1 Needles

UY128GAS of Schmetz , Organ or Groz-Beckert.

Select the proper needle for the fabric and thread.

< Needles and needle size >

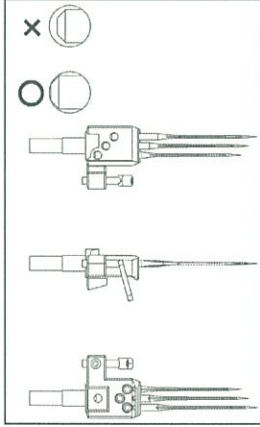
| | | | | | |
|---------------------|------|------|------|------|------|
| Organ UY128GAS | # 09 | # 10 | # 11 | # 12 | # 14 |
| Schmetz UY128GAS | Nm65 | Nm70 | Nm75 | Nm80 | Nm90 |
| Groz UY128GAS | Nm65 | Nm70 | Nm75 | Nm80 | Nm90 |



1-2 Replacing the needle

To replace the needle, check the needle carefully to see that the scarf is turned to the rear of the machine (see the illustration).

Then install the needle correctly.

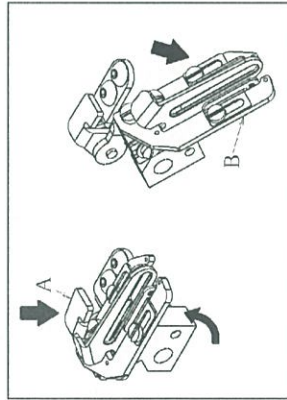


< Note >

Before replacing the needle, be sure to turn off the machine. A clutch motor continues running for a while after the machine is turned off. Therefore keep on pressing the pedal until the machine stops.

1-3 Threading to the looper thread support plate

Press lever A and support plate B will spring up. After threading, return it to the original position by pressing B.



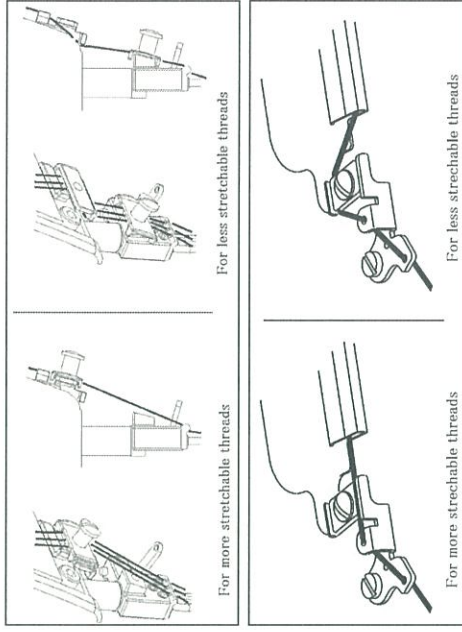
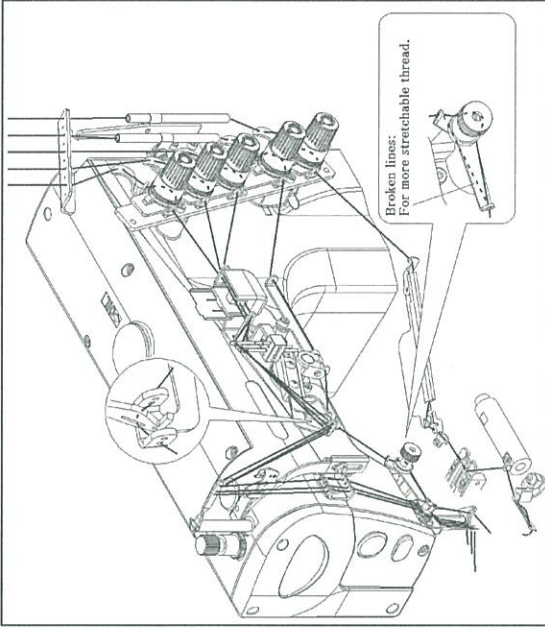
< Note >

Be sure to return the support plate B correctly when the machine is starting.

1-4 Threading

Thread the machine correctly by referring to the illustration below.

Threading the machine incorrectly may cause skip stitching, thread breakage and/or uneven stitch formation. Thread tension should be changed according to various kinds of conditions such as the thread to be used and/or the feeding amount (see Chapter 10 for "Stitch formation").



[2] MACHINE SPEED

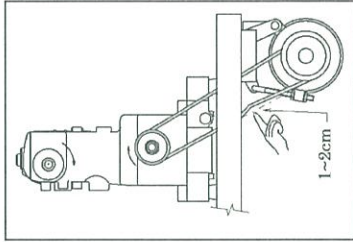
2-1 Machine speed & operating direction

Refer to the table below for maximum and standard speeds of the Series. To extend machine life, run the machine approximately 15~20% below the maximum speed for the first 200 hours of operation (approx. 1 month). Then run the machine at the standard speed.
The machine pulley turns clockwise as the handwheel does as seen from the machine pulley

2-2 Motor & belt

Motor : 3-phase, 2-pole, 400W clutch motor
Belt : M type V belt

Select the proper motor pulley according to the machine speed (refer to the motor pulley outer diameter on the table below). Adjust where to position the motor by pressing the finger onto the middle of the belt so that 1~2cm deflection can be achieved (see the illustration on the right)



NR25

< Machine speed >

| TYPE | MAXIMUM SPEED | STANDARD SPEED |
|-----------|---------------|----------------|
| NR9803 | 6,000rpm | 5,500rpm |
| NR9803ALK | 5,500rpm | 5,000rpm |
| NR9803PLK | 4,800rpm | 4,300rpm |
| NR9803PHK | 4,800rpm | 4,300rpm |

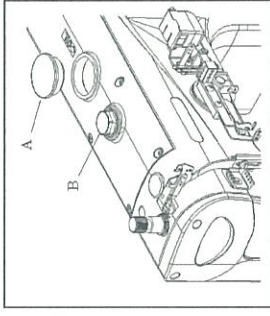
< Motor pulley selection table >

| Motor pulley outer diameter (mm) | Machine speed (rpm) | |
|----------------------------------|---------------------|-------|
| | 50Hz | 60Hz |
| 80 | 3,500 | 4,200 |
| 90 | 4,000 | 4,800 |
| 100 | 4,400 | 5,300 |
| 110 | 4,900 | 5,800 |
| 120 | 5,300 | 6,300 |
| 130 | 5,700 | |
| 140 | 6,200 | |

[3] LUBRICATION

3-1 Oil

Use Kansai Special's genuine oil.
(Part No. 28-618 :700cc)



3-2 Oiling

■ To fill the machine with oil
Remove rubber plug A from the oil hole.
Fill the machine with oil until the oil level is at the top line (see H in the illustration) on oil gauge C.
After the first lubrication, add oil so that the oil level will be between H and L.

■ To check for proper oil flow

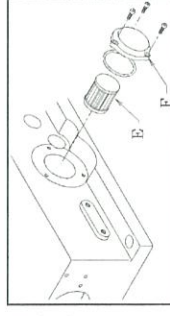
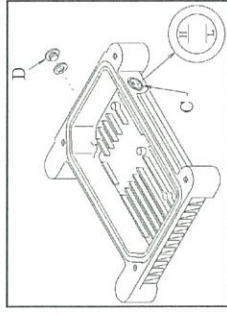
After filling the machine with oil, run the machine to check the oil is splashing to oil flow sight window B.

3-3 Replacing the oil and the oil element

To extend machine life, be sure to replace the oil after the first 250 hours of operation.

To replace the oil, follow the procedures below.

1. Remove the V belt from the motor pulley and then remove the machine from the table.
2. Remove screw D and then drain the oil. Be careful not to stain V belt with the oil.
3. After draining the oil, be sure to tighten screw D.
4. Fill the machine with oil by referring to 3-2 shown above.



If element E is contaminated, proper oiling may not be performed. Clean the filter element every six months. If just a little or no oil flows out from the nozzle with the proper amount of oil in the machine, check the element. To do so, remove oil filter cap F.

Replace the element if necessary.

< Note >

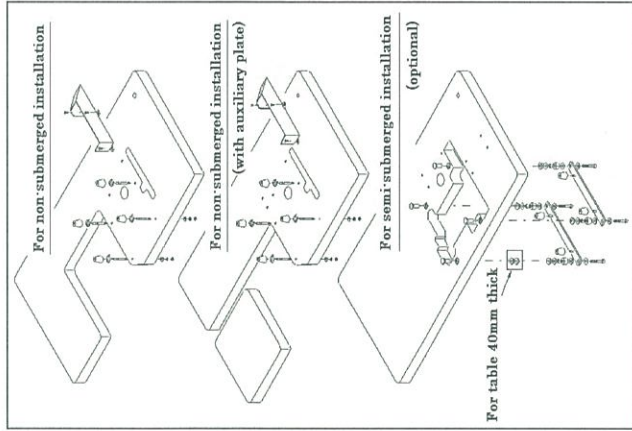
When the oil filter cap is removed, the oil collected on the element drips. Be careful.

4-2 Installing the machine

The NR Series is available in two kinds of installations, non-submerged and semi-submerged.

■ Non-submerged installation

Install the machine correctly by referring to the illustration. Install the bolts and nuts to the machine table. Fit the rubber cushions onto the bolts. Then mount the machine properly onto the rubber cushions.



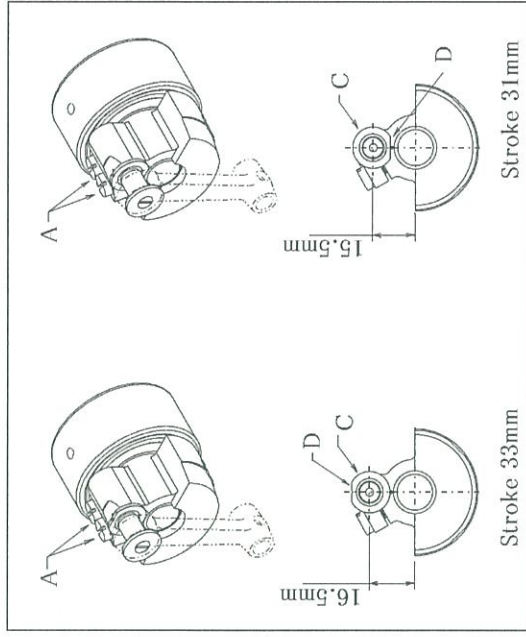
■ Semi-submerged installation

Install the machine correctly by referring to the illustration. Secure the oil reservoir installation brackets to the machine table with screws. Fit the rubber cushions onto the screws. Then mount the machine properly onto the rubber cushions.

[5] TIMING OF THE LOOPER TO THE NEEDLES

5-1 Changing the needle bar stroke

Loosen screws A and turn needle bar link C. To change the needle bar stroke, bring flat surface D to the top or bottom. When the needle bar and flat surface D come to the highest position, the stroke of needle bar stroke is set to 33mm. At the time of shipment of the machine, needle bar stroke is 31mm.



< Note >

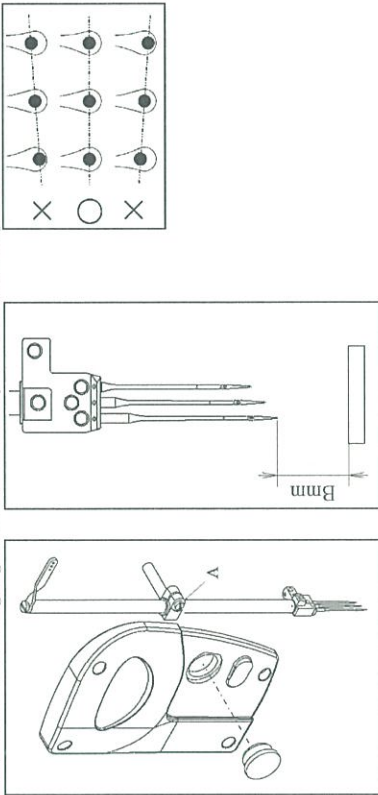
Before changing the needle bar stroke, be sure to turn off the power.

After the needle bar stroke adjustment, make sure that retighten the two screws A securely.

When the needle bar stroke changing, check to make sure the timing of the needle and looper. (See chapter 5)

5-2 Adjusting the needle height

When the needle bar is at the bottom of its stroke, remove the plug on the head cover, loosen screw A, and move the needle bar up or down. Setting distance B varies according to the needle stroke or gauge size for further adjustment. (See chapter 5-4)

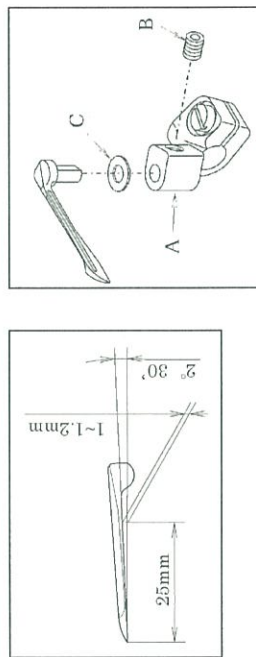


< Note >

After the above adjustment, check to make sure each needle drops into the center of each needle hole.

5-3 Angle and height for installing the looper

To obtain the proper angle and height, insert the looper fully into looper holder A and then tighten screw B. The proper angle for the looper is 2° 30'. Distance at 25mm from the point of the looper between the bottom of the looper blade and the extension line from the point of the looper is approximately 1.1mm.

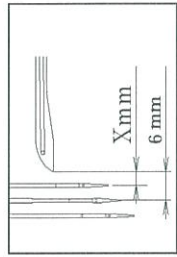
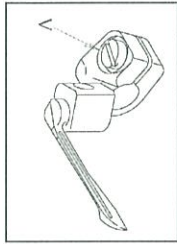


< Note >

There is no need for washer C with UT series.

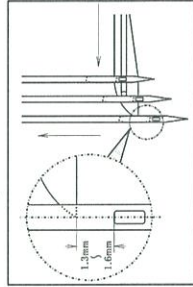
5-4 Looper setting distance

When the looper is at its farthest position to the right, looper setting distance is the fundamental distance from the point of the looper to the center of the needle should be 6mm. Also, setting distance X varies according to the needle stroke or gauge size for further adjustment. (See the table below)



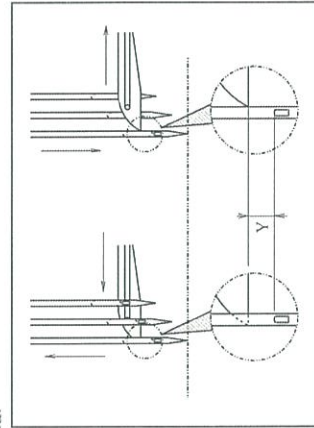
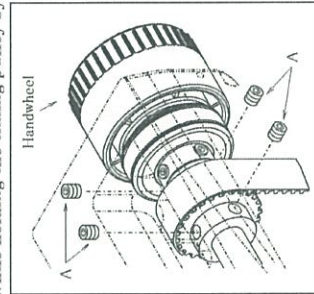
| Needle stroke gauge (mm) (inch) | Needle height (Bmm) | | | Looper setting distance (Xmm) |
|---------------------------------|---------------------|-----------|------------|-------------------------------|
| | None UT | UT | None UT | |
| 3.2 (1/8) | 9.1 ± 0.2 | 8.6 ± 0.2 | 10.2 ± 0.2 | 31/33 |
| 4.0 (5/32) | 8.7 ± 0.2 | 8.2 ± 0.2 | 9.8 ± 0.2 | |
| 4.8 (3/16) | 8.3 ± 0.2 | 7.8 ± 0.2 | 9.4 ± 0.2 | |
| 5.6 (7/32) | 7.9 ± 0.2 | 7.4 ± 0.2 | 9.0 ± 0.2 | |
| 6.4 (1/4) | 7.5 ± 0.2 | 7.0 ± 0.2 | 8.6 ± 0.2 | |
| | | | 8.1 ± 0.2 | |

The point of the looper should pass the center of the left needle and 1.3~1.6mm above the top of its needle's eye when the looper moves to left on the back side of the left needle.



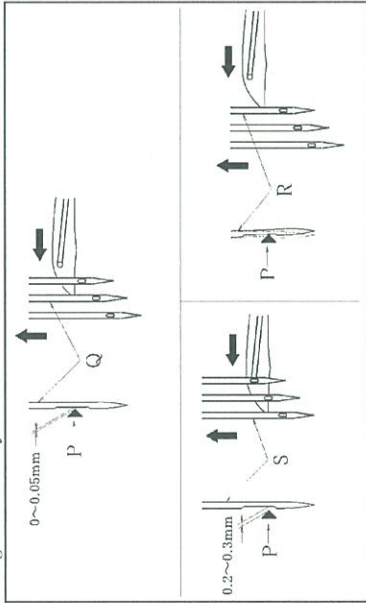
5-5 Needle/looper front-to-back relationship

When the point of the looper moves to the left needle should be same distance Y from the top of its needle's eye to the point of the looper by referring to the illustration below. To adjust the timing of the looper to the needles, remove the machine cover, loosen screws A on the timing pulley (upper), and shift the timing pulley (upper) by turning the handwheel while holding the timing pulley by hand.



5-6 Adjusting the needle/looper setting distance

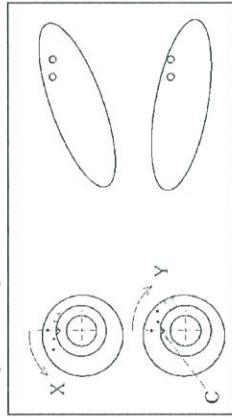
The looper set the clearance between back side of the center needle Q and the point of the looper at 0~0.05mm. To make this adjustment, loosen screw B on the looper holder first. At this time the looper should barely touch the right needle R. And the point of the looper at this position, set the clearance between the left needle S at approximately 0.2~0.3mm. If you can not make this adjustment, please change the looper's orbit. (See below chapter) Then see chapter 6-1 for right needle adjustment.



< Note >

When adjusting the looper holder front or back, be careful not to change the looper setting distance and don't touch the needle guard (rear) and needle.

To change the looper's orbit, loosen screw B on eccentric A and shift the timing mark C by moving eccentric A front or back by referring to the illustration below.



< Note >

When the timing mark moves to the direction of X unnecessary, the clearance between the point of the looper and the left needle when the looper moves to the left decreases. Cause of occur triangle skip stitch, and improper chaining off. When the timing mark moves to the direction of Y unnecessary, the clearance between the point of the looper and the left needle when the looper moves to the left increases. Cause of occur needle loop skip stitch, and easy to break the tip of the needle.

5-7 Changing the amount of the looper front-to-back movement

The clearance between the point of the left needle and the back side of the looper when the looper moves to the right from the extreme left end of its travel should be 0.3~0.6mm (The needle is pressed to the back). The distance between the point of the left needle and the center of the looper's eye on the back side of the looper should be 3~3.5mm.

The amount of the looper front-to-back movement is factory-set properly for needle count #11 (Nm75). If you use needle counts Nm80~90, adjust the amount as required.

Remove the inside cover. Loosen nut B while holding screw A for the looper front-to-back adjusting pin with a screwdriver.

Then move the front-to-back rod front or back.

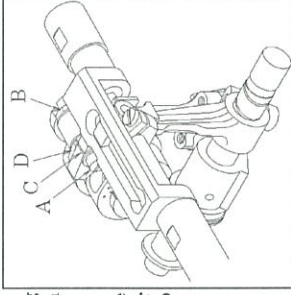
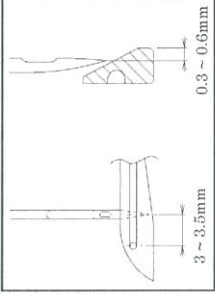
To increase the amount, move alignment mark D on the front-to-back rod to the front from mark C on the looper bar guide. To decrease the amount, move mark D to the back. Adjust according to the needle count.

< Note >

After the above adjustment, check to make sure the chapter 5-6.

< Note >

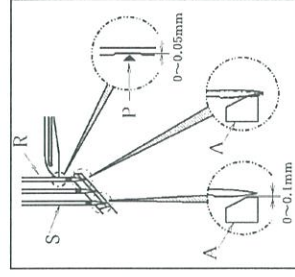
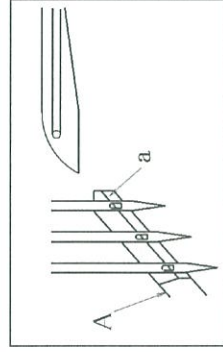
When the amount of the looper adjusting decrease more than necessary, easy to break the tip of the needle. When the amount of the looper adjusting increase more than necessary, cause of occur triangle skip stitch.



[6] FRONT AND REAR NEEDLE GUARDS

6-1 Position of the needle guard (rear)

- Align line a with the center of needle's hole when the needle is at the bottom of the stroke.
- Following the 5-6section, when the point of the looper has reached the center of the right needle(R), the clearance between the needle and the looper should be 0~0.05mm. Loosen screw B and move the needle guard (A) slightly to the front. Then the clearance between the left needle(S) and the needle guard (A) should be 0~0.1mm.

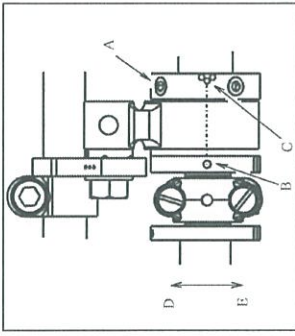


[7] SPREADER

7-1 Timing of the spreader

Adjust according to the thread to be used or other conditions. To make this adjustment, remove the top arm cover and loosen two screws for looper eccentric A on the upper shaft. Then shift alignment mark C front or back while referring to alignment mark B.

To advance the timing of the spreader to the needle, shift mark C in the direction of D.
To delay the timing of the spreader to the needle, shift mark C in the direction of E.



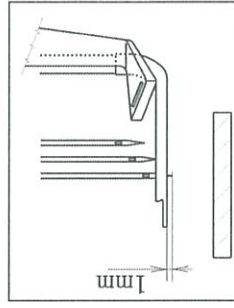
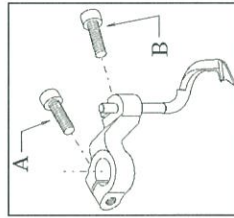
7-2 Position of the spreader

■ Height

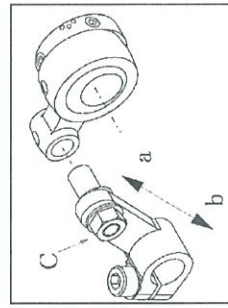
The distance from the point of the left needle to the bottom surface of the spreader should be 1mm.

■ Left-to-right position

When the spreader is at the extreme left end of its travel, the distance from the center of the left needle to the point of the thread carrying notch should be 4.5~5.5mm. When the spreader passes the left needle, the clearance between the point of the thread carrying notch and the left needle should be 0.5~0.8mm. To make the above adjustment, loosen screws A and B.



Adjust the number of spreader threads and/or the fabric weight. To make this adjustment, remove the arm top cover, loosen nut C and then move the adjusting lever pin in direction (a) or (b). To decrease the amount, move the pin in the direction of (a). To increase the amount, move the pin in the direction of (b).

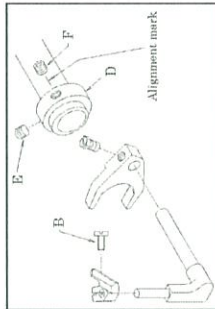
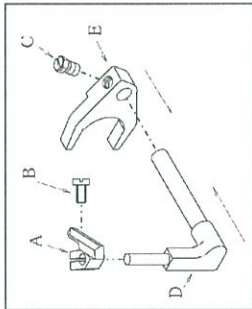


■ To adjust the needle guard (A) front to back, loosen screws C. The vertical adjustment, and angle adjustment by loosen screw B correctly.

■ To readjust the timing of the needle guard (rear) movement, loosen screws E and F and move eccentric D. Align the alignment mark on the shaft with the center of screw F which turns afterward in the operating direction.

< Note >

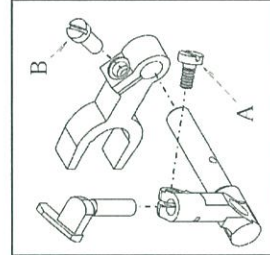
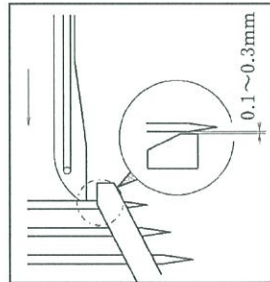
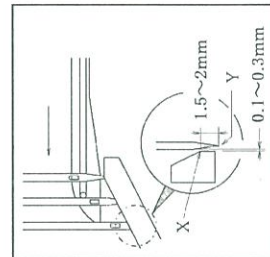
Retighten the screws while checking there is no left-to-right shake on the needle guard (A).



6-2 Position of the needle guard (front)

■ When looper has reached at the center of left needle. The position of needle guard (front)'s height should be 1.5~2mm from the tip of left needle Y to the line of needle guard X.

■ When looper has reached at the center of the right needle. The clearance between the needle guard and needles should be 0.1~0.3mm. Also, when looper has reached at the center of the left needle. The clearance between the needle guard and needles should be 0.1~0.3mm.



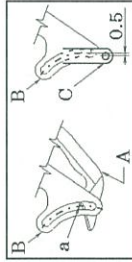
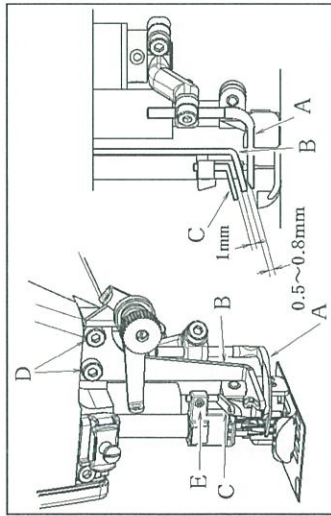
■ To adjust the needle guard front to back, loosen screws B. The vertical adjustment, and angle adjustment, by loosen screw A correctly.

< Note >

Retighten the screws while checking there is no left-to-right shake on the needle guard (front).

7-3 Position of the spreader thread guide

The clearance between spreader thread guide B and spreader A should be 0.5~0.8mm. When the spreader is at the extreme right end of its travel, point (a) of the spreader thread carrying notch should be aligned with the centerline of the slot of spreader thread guide B. When the needle bar is at the bottom of its stroke, the clearance between the spreader thread guide and spreader thread guide C should be 1mm and the eyelet of spreader thread guide C should be approximately 0.5mm left to the center line of the slot of spreader thread guide B. To make this adjustment, loosen two screws D and screw E and move each thread guide up or down, left or right, or front or back as required.



[8] FEED DOGS & STITCH LENGTH

8-1 Feed dog height & tilt

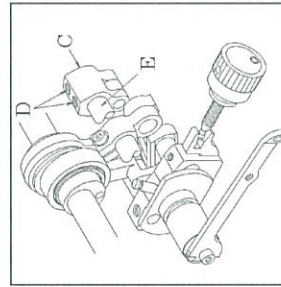
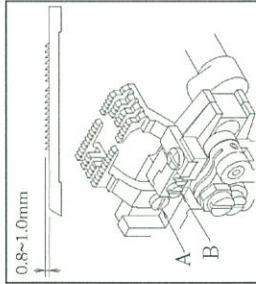
■ Height

When the feed dogs are at the top of their stroke, the feed dog teeth should be parallel with and 0.8~1.0mm above the top surface of the needle plate. To make this adjustment, loosen screws A and B and move the main (back) and differential (front) feed dogs up or down.

■ Tilt

When the feed dogs are at their top of their stroke, the feed dogs should be parallel with the top surface of the needle plate. To make this adjustment, loosen screws D and move shaft E.

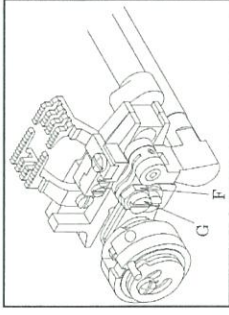
When using thick materials or stretchable materials, the front of the feed dog teeth tilt slightly become up. When using thick materials or stretchable materials, the front of the feed dog teeth tilt upward slightly. The top of the feed dog teeth should be parallel with above the top surface of the needle plate.



8-2 Front-to-back position of the feed dogs

■ Maximum feed dog movement

< Amount of the front feed: 4.0mm >
< Amount of the back feed: 3.6mm >
Center the feed dogs in the needle plate so that they do not touch the needle plate.
To make a fine front-to-back adjustment on the differential (front) feed dog, tighten screw G on front-to-back adjusting eccentric F and turn the eccentric.



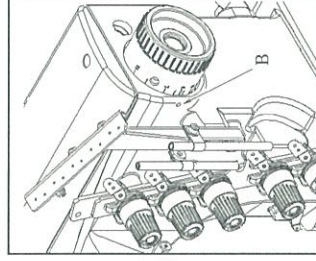
8-3 Adjusting stitch length

The stitch length is adjustable from 1.4~3.6mm. The following table shows the number of stitches within 1 inch (25.4mm) or 30mm according to the stitch length.

| Stitch length (mm) | No. of stitches (within 1 inch) | No. of stitches (within 30mm) |
|--------------------|---------------------------------|-------------------------------|
| 3.6 | 7.0 | 8.0 |
| 2.4 | 10.5 | 12.5 |
| 1.4 | 18.0 | 21.0 |

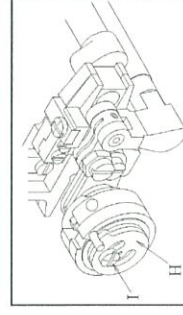
■ To adjust the stitch length

1. Press push button A lightly until its end touches the inside part and clicks.
2. Turn handwheel by hand while pressing the push button lightly until the push button goes further into the depth.
3. Then press down the push button strongly again while turning handwheel as required.
4. Align the desired stitch length with alignment mark B and release the push button.



■ Max. feeding amount for the NR Series: 4.5mm

To obtain a max. feeding amount of 4.5mm, loosen screw I on stopper H to release stopper H. Adjust while check to make sure the feed dogs do not touch the needle plate.

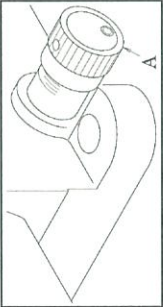


< Note >
Before adjusting the stitch length, be sure to turn off the power.

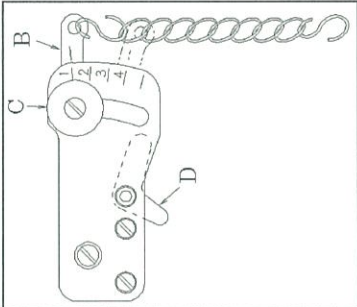
8-4 Differential feed

The NR Series is equipped with independently driven main (back) and differential (front) feed dogs.

Adjust the feeding amount of the differential (front) feed dog by positioning differential feed adjusting lever B or turning adjusting knob A. The normal and reverse differential feeds can be obtained as required.



- Feeding amount of the differential (front) feed dog
The readings indicate the feeding amount of the differential (front) feed dog. Loosen nut C. Set differential (front) feed adjusting lever B as required at 1.0~4.0mm or adjust by turning adjusting knob A.
- If you use differential feed lever, secure lever B as required with nut C within the range from the reading which differential feed lever B read when knob A is turned to stopper D.
- If you change the feeding amount of the differential feed dog during sewing, connect a chain to differential feed lever B.



Each of the front (differential) and back (main) feed dog drives independently.

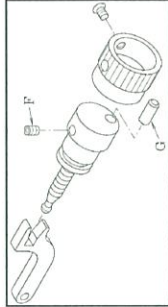
Therefore if you change the feeding amount of the back (main) feed dog (stitch length), the differential feed ratio will be changed. Readjust the differential feed ratio.

< Differential feed ratio >

| Stitch length (mm) | Max. normal diff. Feed | Max. reverse diff. Feed |
|--------------------|------------------------|-------------------------|
| 3.6 | 1:1.1 | 1:0.3 |
| 2.5 | 1:1.6 | 1:0.4 |
| 2.0 | 1:2 | 1:0.5 |
| 1.4 | 1:2.9 | 1:0.7 |

- On the NR Series the feeding amount can be changed mechanically up to 4.5mm.

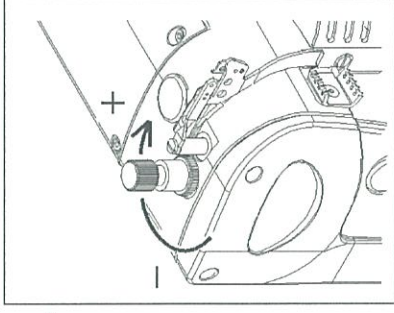
To obtain 4.5mm, loosen screw F and move stop pin G to release the stopping position. If you change to the maximum feeding amount, adjust the feed dogs front to back while checking to make sure the feed dogs do not touch the needle plate.



[9] PRESSER FOOT

9-1 Adjusting presser foot pressure

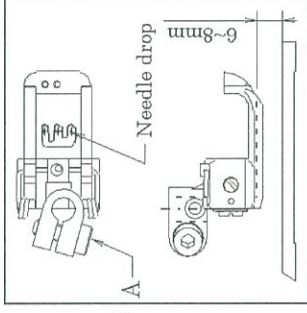
The presser foot pressure should be as light as possible, yet be sufficient to feed the fabric and produce uniform stitches. To increase the presser foot pressure, turn the adjusting knob clockwise.



9-2 Position of the presser foot & foot lift

Fit the presser foot onto the presser bar so that the needle can drop correctly to the center of the presser foot needle drop hole.

- Position of the presser foot
Loosen screw A. Adjust by moving the presser foot left or right while checking to make sure the needle drops correctly to the center of the presser foot needle drop hole.



■ Foot lift

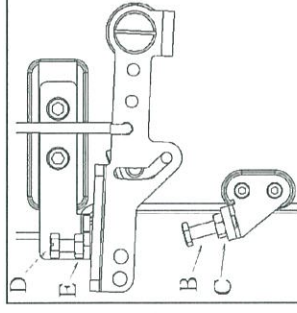
For machines with the spreader, the presser foot should be 6mm above the top surface of the needle plate. Check to make sure presser foot does not touch the spreader with the presser foot in the above position. For machines without the spreader, the presser foot should be 8mm above the top surface of the needle plate.

Set stopper B at the required position. Fasten the presser foot lift lever with nut C so that the lever cannot be lowered.

9-3 Adjusting the float-foot

When the adjusting screw D is turned clockwise or counterclockwise, the presser bar lifting lever is pressed down to lift the presser foot.

Adjusting the height of the float-foot according to the sewing condition.



< Note >

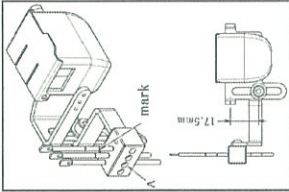
In case of the float-foot is not used, use the sewing machine with the screw E moves to top.

[10] STITCH FORMATION

10-1 Position of the needle thread guides

The distance from the center of the eyelet of the needle thread guide to that of the set screw should be approximately 17.5mm (see the illustration). Adjust the height of the thread guides by loosening screws A and moving each thread guide up or down (refer to the mark shown in the illustration).

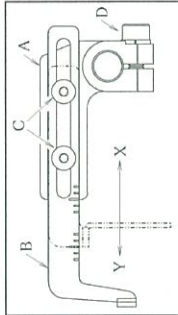
If the stitch formation cannot be changed extremely by adjusting the height of the thread guides because of the thread to be used, unravel the thread after test sewing and adjust the height of the thread guides while checking the tension of the needle thread.



10-2 Position of the thread guide on the needle thread take-up

When the needle bar is at the bottom of its stroke, needle thread take-up bracket A should be level and refer to the mark shown in the right figure the position of the thread guide of needle thread take-up B. To make this adjustment, loosen screws C and D.

To tighten the needle thread, move needle thread take-up to Y. To loosen the needle thread, move needle thread take-up to X.

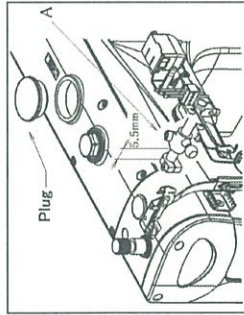


10-3 Timing of the needle thread take-up

The timing of the needle thread take-up in relation to the up-and-down movement of the needles can be adjusted. This timing is factory-set to synchronize with the up-and-down movement of the needle bar.

< Note >

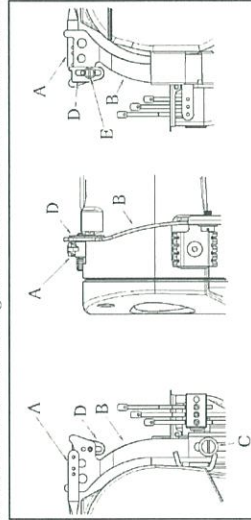
The rod ball is factory-set at 5.5mm from the rear end of the shaft. To make the needle thread loop small, move the rod ball to the front. To make the needle thread loop large, move the rod ball to the back. Remove the rubber top plug. Loosen the screw of (A) with a 5mm wrench. Then move the rod ball to the front or back.



10-4 Position of the needle thread guide

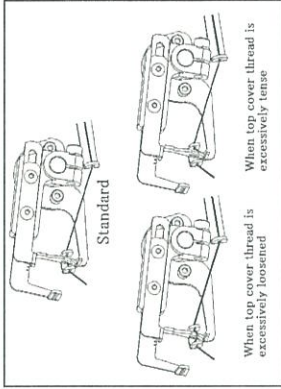
When the needle bar is at the bottom of its stroke, the center of the needle bar eyelet A should be level with the top surface of needle thread guide B. To make the needle thread

loop large, move up the thread guide B, for more stretchable threads. To make the needle thread loop small, move down the thread guide B, loosen screw C and move guide B up or down. Also, loosen screw E and move up or down thread guide D as required.



10-5 Position of the thread guide of the spreader thread take-up

When the needle bar is at the top of its stroke, thread any one of parts on the spreader thread take-up with spreader thread. (see the illustration)



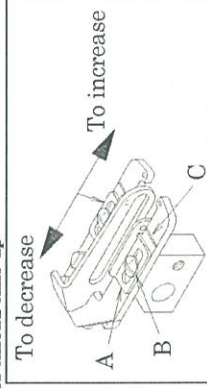
10-6 Position of the thread guide of the looper thread take-up

Position thread guide A according to the amount of looper thread supplied by the looper thread take-up.

To do so, loosen screw B and move the eyelet of thread guide A to the front or back while referring to alignment mark C on the bracket.

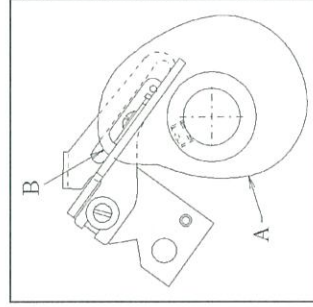
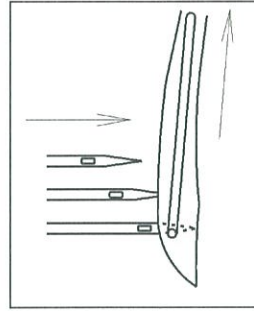
■ To increase the amount of looper thread Move the eyelet of A to the front.

■ To decrease the amount of looper thread Move the eyelet of A to the back.



10-7 Position of the looper thread take-up

When the point of the left needle descending to the back side of the looper has reached the bottom surface of the looper blade while the looper is moving to the right from the extreme left end of its travel, the looper thread should be removed properly from position B on the looper thread take-up.



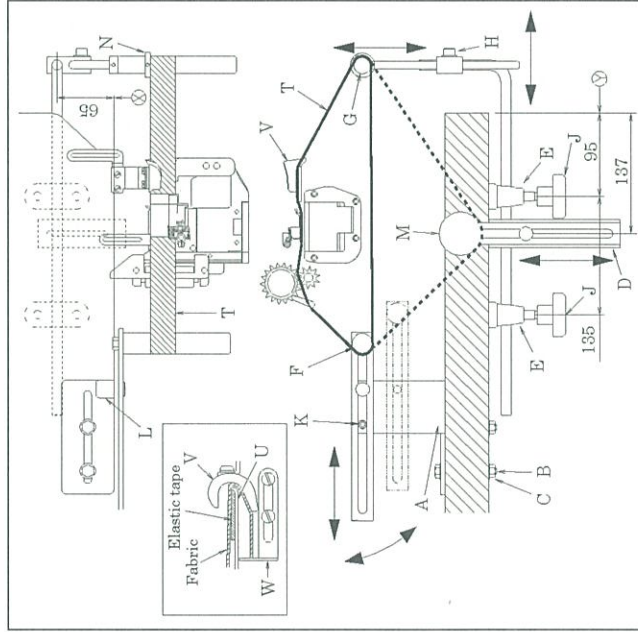
[11] ADJUSTING THE ALK AND PLK

11-1 Specifications of the ALK and PLK

- | | |
|-----------------------|--|
| 1. Needle bar stroke | 33mm |
| 2. Upper knife stroke | 4.5mm |
| 3. Hem width | 12.7~25.4mm ALK (with an auxiliary presser foot) |
| 4. Elastic width | 10~30mm PLK (with an auxiliary presser foot) |
| 5. With rear puller |No. of threads on the upper puller : 28 (PLK) |

11-2 Adjusting the PLK for inserting elastic into waists of tubular goods

- To install each elastic tension roller
 - Secure rear roller bracket A with bolt B and nut C onto the top surface of the machine table.
 - Install front roller installation bracket E on the underside of the machine table (refer to the distances from table ends X and Y shown below).
 - Install lower taper roller bracket D on the underside of the machine table (refer to the distance from table end Y shown below).
- To sew the fabric
 - Raise the presser foot and position elastic tape T as shown below.
 - Cover elastic tape T with the fabric positioned along lower elastic guide (U). Rotate the fabric in the operating direction.
The fabric is folded along lower elastic guide (U) and right fabric guide (V). Go on until the fabric edge reaches left fabric guide (W).
Then lower the presser foot.



- Place the fabric on rear roller F and protrude the fabric edge sufficiently to the right to form a hem. Hold the fabric lightly by hand so that the fabric will not move to the left or right. Do not form a hem forcibly during sewing.
It may cause trouble due to the change of tension on the fabric.
- When the start of sewing comes close to lower elastic guide (U) and right fabric guide (V), stop sewing and then press the knee switch under the machine table.
The whole elastic guide moves to the left.
Remove the fabric from lower elastic guide (U) and right fabric guide (V).
Sew the fabric while checking to see if the fabric edge is uniform and/or seams at the start of sewing match those at the end of sewing.

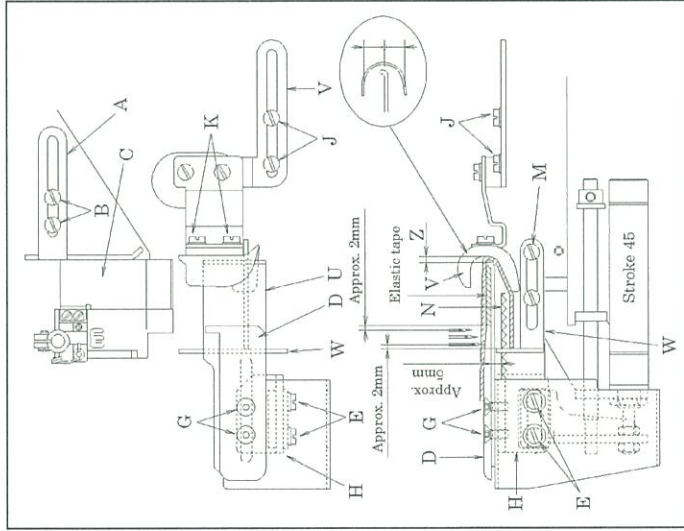
3. To adjust each elastic tension roller

- Position rear roller F and front roller G according to the size of the fabric which is spread properly. Loosen lever L and adjust rear roller F front to back. The rear roller can be lowered on bracket A by changing the position of screw K. In addition, the rear roller can be adjusted front to back and tilted forward or backward with lever L (see below). If the fabric is large, adjust by moving up or down lower taper roller M. Lower taper roller M can be adjusted up and down easily by loosening the lever.
- Adjust elastic guide N for front roller G left to right by positioning elastic guide N correctly along to the right side of the elastic tape. Loosen screw H and adjust the height and direction of the front roller.
Loosen knob J and adjust the front roller front to back.

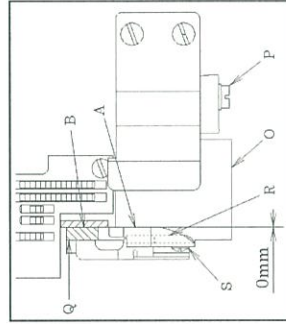
11-3 Adjusting each holder

- To adjust the height of the lower elastic guide
The clearance between lower elastic guide U and top surface N of the needle plate is factory-set at approximately 5mm. Adjust this clearance according to the fabric to be used. Loosen screw E and move elastic guide bracket H up or down as required.
- To adjust elastic tape left to right
Loosen screws E. Adjust upper elastic guide D left to right so that the clearance between the left edge of elastic tape and the right needle is approximately 2mm.
- To adjust the elastic width
Loosen screws G and adjust lower elastic guide U left to right according to the elastic width.
- To adjust the hem width
Adjust fabric guide (right) V and rear fabric guide (right) A.
Loosen screws J and B. Adjust V and A left to right according to the hem width.
To adjust fabric guide (right) V up and down, loosen screws K and position lower elastic guide U so that it is approximately centered in the fabric guide (right).
Adjust clearance Z between fabric guide (right) V and lower elastic guide U according to the fabric. Loosen screws J and adjust fabric guide (right) V left to right.
If the hem width is smaller than the width of fabric pressing plate C, file or grind the right edge of C.

5. To adjust the width of the fabric edge to be cut
Loosen screws M. Adjust fabric guide (left) W left to right so that the clearance between the raw edge of the fabric and the left needle is approximately 2mm.



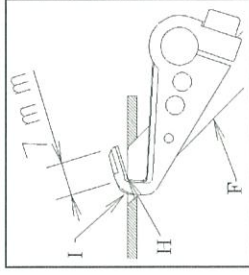
11-4 Adjusting the hem guide (ALK)
Between A line and B line of the side of upper knife should be same line. To adjustment of hem guide, loosen screw P on the guide O.



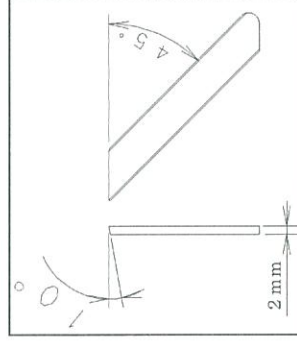
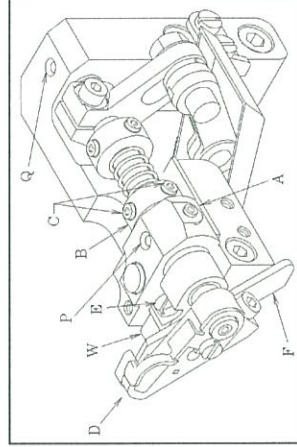
11-5 Adjusting the fabric trimmer positioned to the left of the needle

1. To adjust the width of the fabric edge to be cut
Loosen screw A and adjust by moving upper knife holder D and lower knife holder W simultaneously left to right as required. Then tighten screw A.

<Note >
Add a small amount of oil from oil holes P and Q periodically.



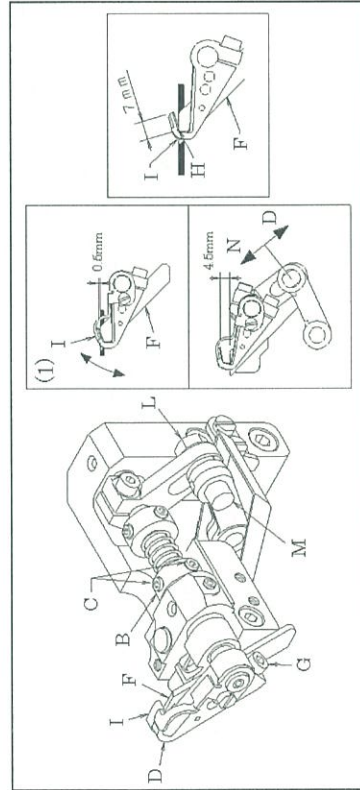
2. To remove/install the lower knife
<To remove the lower knife >
a. Open the front and side covers.
b. Loosen screw C on collar (left) B.
c. Press upper knife holder D to the left to create the clearance between the upper and lower knives.
d. Tighten screws C on collar (left) B temporarily.
e. Loosen screw E on lower knife holder W and remove the lower knife.
<To install the lower knife >
a. Align the cutting edge of lower knife F with the top surface of the needle plate. Then tighten screw E.
b. Loosen screw C on collar (left) B temporarily.
c. The upper knife turns to the right with spring pressure to mate with the lower knife.
d. Place a thread between the upper and lower knives and check for the proper cutting action by turning the machine pulley by hand.
e. The distance between the point of upper knife and the point H of the cutting edge of lower knife F should be 7mm and tighten screw C on the collar B.
f. Recheck for the proper cutting action of the upper and lower knives.
3. To sharpen the lower knife
When the upper and lower knives become dull, sharpen the lower knife. Reserve new upper and lower knives for replacement.



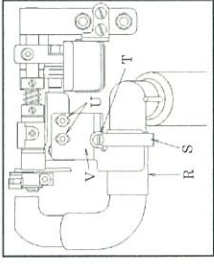
4. To remove/install the upper knife
<To remove the upper knife >
 b. Loosen screw G and remove the upper knife bracket D.
 c. Loosen screw H and remove the upper knife I.
 <To install the upper knife >
 a. Install the upper knife I and tighten screw H.
 b. Install the upper knife bracket D and tighten screw G temporarily.
 c. When the upper knife I is at the bottom of its stroke, adjust the overlap of upper knife I and lower knife F by referring to the illustration on the below (1).
 And tighten screw G
 d. To increase overlap, loosen screw C on collar B the overlap are pressure by the spring.
 e. Place a thread between the upper and lower knives and check for the proper cutting action by turning the machine pulley by hand.
 f. The distance between the point of upper knife and the point H of the cutting edge of lower knife F should be 7mm and tighten screw C on the collar B.
 g. Place a thread between the upper and lower knives and check for proper cutting action by turning the machine pulley by hand again.
 5. To adjust the stroke of the upper knife
 To decrease of upper knife's stroke. Loosen nut L, and the upper knife lever pin M should be move to downward. And tighten nut L.
 To increase of upper knife's stroke. Loosen nut L, and the upper knife lever pin M should be move to upward. And tighten nut L.

<Note >

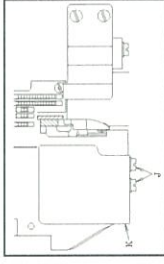
When the stroke was changed, the overlap 0.5mm between upper and lower knives needs to re-adjust at the above mention of c to g. Factory adjustment.
 The stroke of upper knife is adjusted by 4.5mm, which is minimum of it (The upper knife lever pin M is the point of bottom). For gaud of upper and lower knives, the distance between the point of upper knife I and the point H of the cutting edge of lower knife F should be 7mm then tighten screw C on the collar B.



6. To adjust the sucking pipe
 Loosen screws U on bracket V and adjust sucking pipe R up and down.
 Loosen screw T on band S and adjust sucking pipe R front to back and left to right. Install sucking pipe R properly.



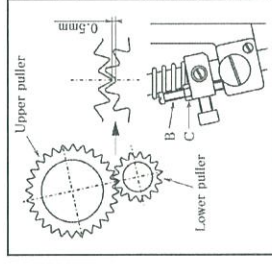
7. To adjust the support cover
 When the position of vacuum pipe was changed, also, the position of support cover K should be change by loosen screw J.



【12】 ADJUSTING THE REAR PULLER

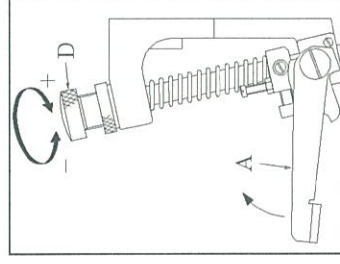
12-1 Position of the hand lever and the stopper

To position or remove the fabric, raise hand lever A.
 With the hand lever lowered, adjust stopper B so that the clearance between the upper and lower pullers is 0.5mm.
 Then tighten nut C.



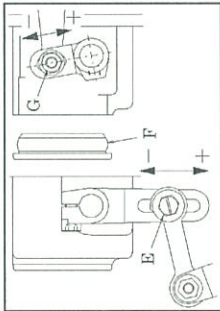
12-2 To adjust the puller pressure

The puller pressure should be as light as possible, yet be sufficient to feed the fabric smoothly.
 To increase the pressure, turn adjusting knob D clockwise.
 To decrease the pressure, turn adjusting knob D counterclockwise.



12-3 To adjust the feeding amount of the rear puller
The feeding amount of the rear puller should be the same as that of the feed dog. Loosen nut E.

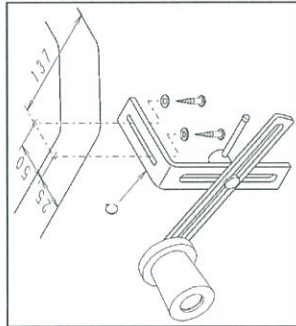
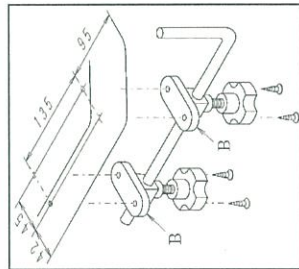
To decrease the amount, move upward.
To increase the amount, move downward.
If the proper feeding amount is still not obtained after the above adjustment, remove rubber plug F and loosen screw G with a hex. wrench.
To decrease the amount, move upward.
To increase the amount, move downward.



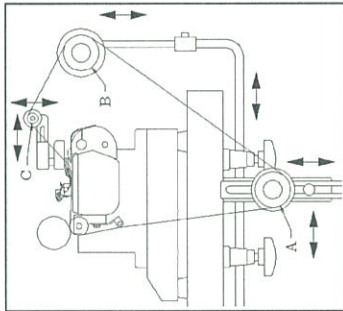
[13] ADJUSTING THE PHK

13-1 Adjusting the roller

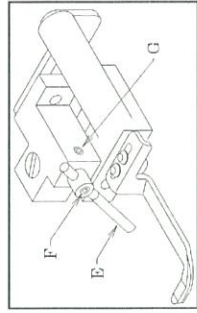
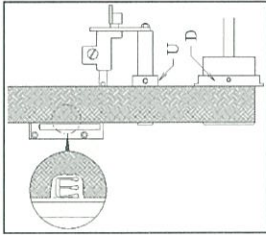
Adjustment for elastic band's tension the parts B and C should be fit with the bottom surface of table correctly with referring to dimensions. (see the illustration)



Rollers A, B, C are adjustable with finished waist size so that rollers adjust the proper position for elastic band's size.



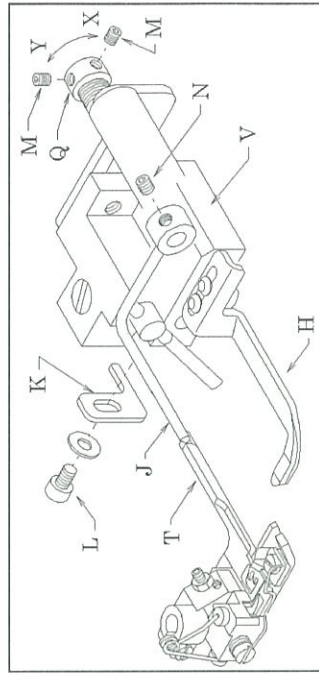
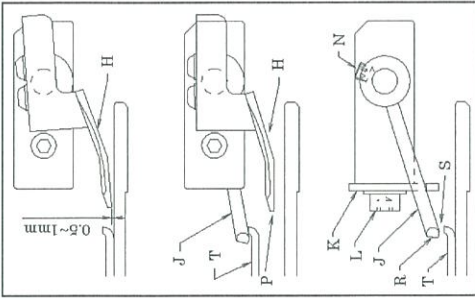
In order to locate the elastic band by moving properly (L-R direction). Adjust by the elastic slast collar D on the front roller B, the elastic guide collar U on the front roller C, and the elastic guide pole E on the upper side of the ruler plate. 25~45cm widths of the elastic band can be used.



13-2 Adjusting the cloth presser

- Spring pressure of the cloth presser can be adjusted by loosening screw M on the collar Q. Turning the collar to the direction of arrow X can strengthen spring presser, and turning the collar to the direction of arrow Y can weaken it. Make the distance of 0.5~1.0mm between the edge P of the cloth presser H and needle plate when presser foot descends as shown in the figure. Locate the edge P of the cloth presser H at the middle point between needle plate and presser foot.
Make the gap S between the presser foot T and the edge R of the guide bar J by loosening screw N on the guide bar J and screw L on the stopper K. Tighten the screw N and L after this adjustment.
-

< Note >
Guide bar Attachment table V has a hole to fill oil.
Insert some oil from it periodically.



13-3 Adjusting the knife apparatus

- Adjusting the width of knife (Adjusting the cutting point of cloth)
 - Detach cloth guide.
 - Locate lower knife table S properly by loosening screw A on the lower knife table S and screw B on the upper knife drive lever.
 - Tighten screw A on the lower knife table and screw B on the upper knife drive lever.

*<Note >
Do not tighten the screw A on the lower knife too much.*

- Make sure whether you can move the upper knife table C to the right against spring pressure. If you cannot move it, loosen the screw B on the upper knife drive lever and move the upper knife table C to the right.
- Increase spring pressure properly by loosening screw D on collar ((left).

*<Note >
Insert some oil from a hole E periodically.*

- How to detach/attach the lower knife

<Detaching the lower knife>

- Detach the cloth guide.
- Loosen screw F on the lower knife table S.
- Remove lower knife G downward by making a gap between the upper knife K and the lower knife G, while pulling the upper knife table C to the right.

<Attaching the lower knife>

- Tighten screw F while locating the edge of the lower knife G on the surface of the needle plate.
- Make sure the sharpness of the upper and lower knives by putting a thread between them and rotating a pulley manually.

- How to detach/attach the upper knife.

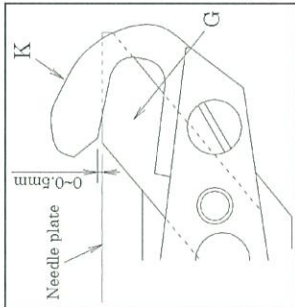
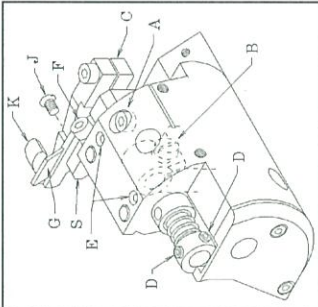
<Detaching the upper knife>

- Temporarily tighten screw B at which you can see the screw J on the upper knife, while loosening.
- Detach the upper knife by loosening screw J on the upper knife K.

<Attaching the upper knife>

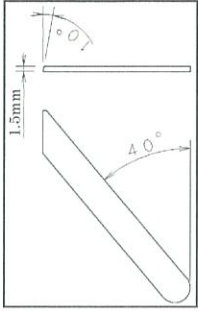
- Tighten screw J while attaching the upper knife K to the upper knife table C.
- Make sure the sharpness of the upper and lower knives by putting a thread between them and rotating a pulley manually.

- Adjusting the contact of the upper and the lower knives
Adjust the contact of the upper knife K and the lower knife G by loosening the screw B on the upper knife drive lever as shown on the figure when the upper knife K descends to its lowest point. Tighten the screw B after this adjustment.

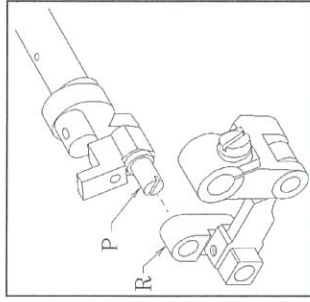
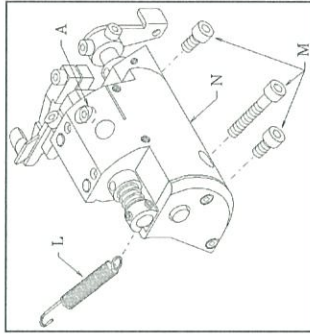


- How to grind knives.

Not necessary to grind the upper knife for about a year due to cemented carbide. Grind the lower knife if you find blunt for the period.



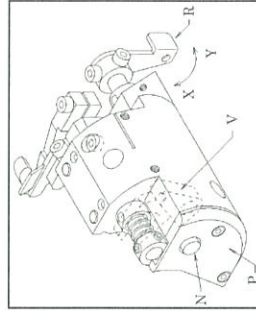
- How to detach the right knife table.
 - Open the side cover and detach upper knife adjust spring L.
 - Remove 3 screws M on the right knife table N.
 - Move the needle bar to the upper death point by rotating puller manually.
 - Detach the right knife table from its bed. You can loosen screw A on the lower knife table if you cannot do so.
 - Detach the link R from drive pin P attaching the edge of the up-down feeding axis.



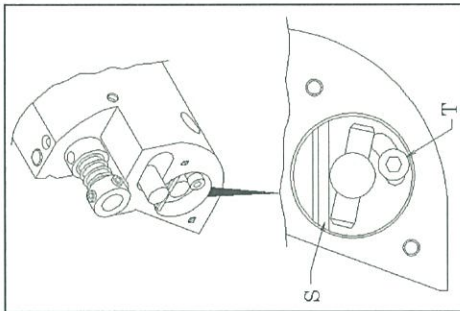
13-4 Adjusting the mechanism of knife drops

- In case you function the mechanism of knife drops.

- Descend the upper knife and stop its movement by rotating the drop lever R to the direction of arrow X.
- You can lock the movement of the upper knife by pressing the drop lever R to the last and pressing the push bottom N to the point at which the bottom reaches the upper knife adjust lever V.



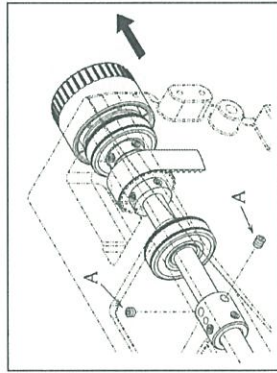
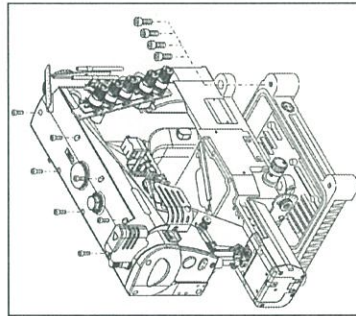
- c. Pull the drop lever R to the direction Y slightly until the edge of the push bottom N touches the upper knife adjust lever V. You can lock the movement of the upper knife after this.
 - d. In order to unlock it, push the drop lever R to the direction of Y. Push bottom N will be away from the upper knife adjust lever V. At this stage, you can unlock the drop of the upper knife by pulling the drop lever R to the direction of Y.
2. Adjusting the mechanism of knife drops.
 - a. Detach the side cover P.
 - b. Adjust by above mentioned guidance (13.4:1-a, b) by loosening screw T on the adjust lever stopper S. Be careful not to change the contact of the knives this procedure.
 - c. Tighten the screw T after this adjustment.



【 14】 REPLACING THE TIMING BELT

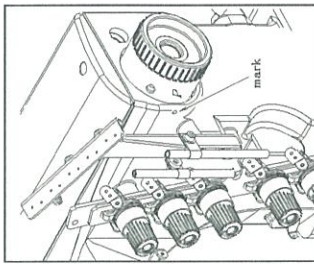
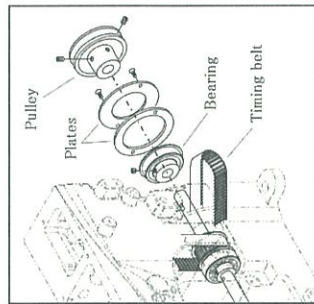
14-1 To remove the timing belt

1. Loosen the seven arm cover set screws and the four oil reservoir set screws (see the illustration). Remove each part.
2. Loosen two screws A. Remove the handwheel to the right while turning it slowly (see the illustration).
3. Remove the pulley, plates and bearing in sequence by referring to the illustration. Then remove the timing belt from the hole for the bearing.



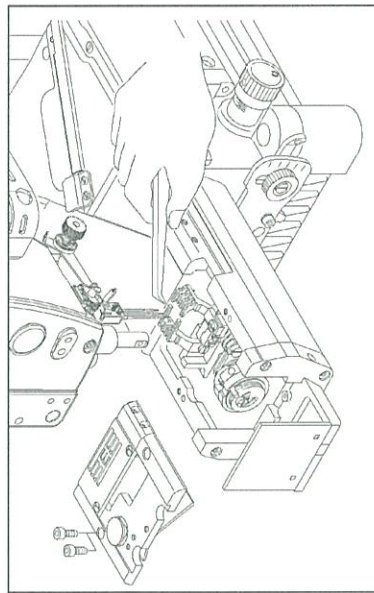
14-2 To place the timing belt

1. Install the timing belt, bearing, plates, pulley and cover by performing the reverse procedure of 14-1.
2. Position the bearing so that the point of the screw is fitted correctly into the positioning hole on the lower shaft. Then tighten the screw to secure the bearing.
3. Move the looper to the extreme right end of its travel by turning the machine pulley. Bring the looper down to the bottom of its stroke by hand.
4. Then place the belt onto the timing pulley on the upper shaft. Tighten two screws A.
5. Bring the needle bar up to the top of its stroke by turning the machine pulley. Check to make sure mark "P" on the handwheel is aligned with alignment mark "O" on the bed.
6. To make a fine adjustment for the timing of the needle and looper, refer to 5-5.



【 15】 CLEANING THE MACHINE

At the end of each day, remove the needle plate and clean the slots of the needle plate and the area around the feed dogs.



NR-UT *Series Instruction Manual*

INTRODUCTION

Thank you for your purchasing Kansai Special's NR/UT Series.

Read and study this instruction manual carefully before beginning any of the procedures and save it for later use.

This instruction manual describes adjustments and maintenance procedures for the thread trimmer.

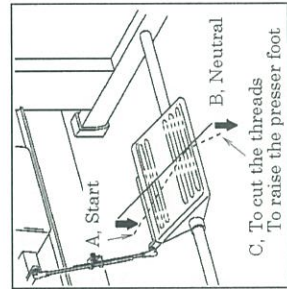
Refer to the NR Series instruction manual for other information.

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[1] HOW TO USE THE THREAD TRIMMER

< Note >
Do not use this thread trimmer with no fabric under the presser foot.

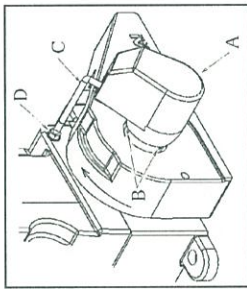


- Pressing the pedal with toe (position A) starts the machine. Releasing the pedal (position B) stops the needle at the top/bottom of its stroke (adjustable with the motor).
- If the needle stops at the bottom of its stroke as adjusted, pressing the pedal with heel (position C) raises the needle. As soon as the needle stops at the top of its stroke by pressing the pedal with heel, the thread trimmer gets actuated (if the needle stops at the top of its stroke as adjusted, the thread trimmer gets actuated by pressing the pedal with heel).
- Returning the pedal to position B lowers the presser foot.

■ The presser foot can be raised or lowered freely by releasing the pedal (position B) or pressing the pedal with heel (position C) until the pedal is placed at position A for the next sewing operation after the threads are cut.

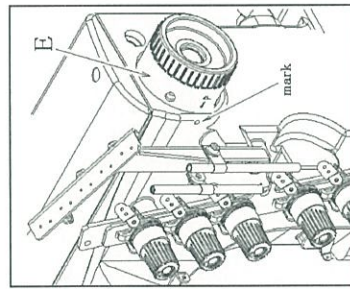
[2] INSTALLING THE POSITION DETECTOR

- Install position detector A and tighten screw B temporarily.
- Fit positioner bar C onto the guide groove of the position detector. Then tighten screw D.
- Turn on the motor.



< Note >
Remove the connector for the thread trimmer cylinder.
Make sure the knife is retracted all the way.

- Press the pedal with heel after two to three stitches are formed by pressing the pedal with toe.
- Then the needle stops.
- Loosen screws B for the position detector.
- Turn the machine pulley while checking that the position of screws B is not shifted. Align mark P on handwheel E with the alignment mark on the arm.
- Then the needle bar is at the top of its stroke.
- Tighten screws B to secure the position detector.
- Check to see if the needle bar stops at the top of its stroke by pressing and then releasing the pedal.



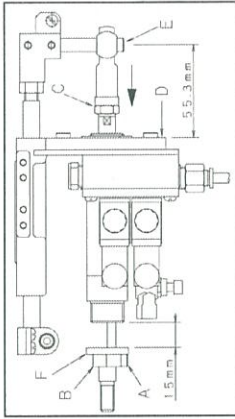
[3] ADJUSTING THE THREAD TRIMMER AIR CYLINDER (UTA)

3-1 Air cylinder stroke

The stroke of the air cylinder should be approximately 15mm.

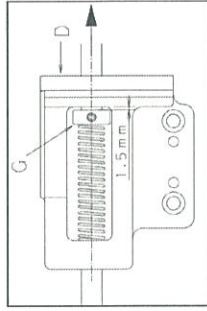
To adjust this stroke, loosen collar B and screw A. Set the clearance between rubber cushion F and the rear end of the cylinder at 15mm.

To position shaft E, loosen nut C. With the cylinder retracted, set the distance from the left end of cylinder installation bracket D and the center of shaft E at approximately 55.3mm.



3-2 Air cylinder return spring

With the cylinder plunger protruded, there should be clearance slightly between collar G and bracket D.



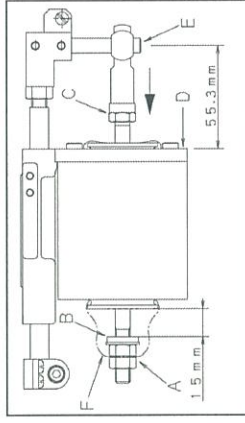
[4] ADJUSTING THE THREAD TRIMMER SOLENOID (UTE)

4-1 Solenoid stroke

The stroke of the solenoid should be approximately 15mm.

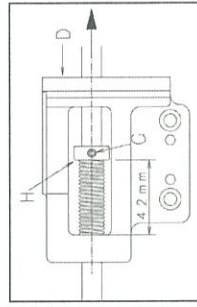
To adjust this stroke, remove rubber cover F and loosen nut A.

Set the clearance between rubber cushion B and the rear end of the solenoid at 15mm. To position shaft E, loosen nut C. With the solenoid retracted, set the distance from the left end of bracket D and the center of shaft E at approximately 55.3mm.



4-2 Adjusting the solenoid return spring

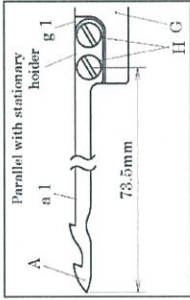
With the solenoid plunger protruded, there should be approximately 42mm clearance between collar H and bracket D. To make this adjustment, loosen screw G of solenoid return spring collar H.



[5] ADJUSTING THE THREAD TRIMMER

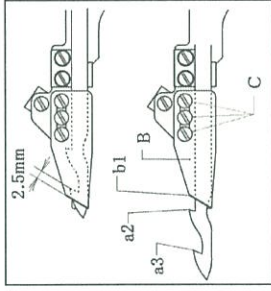
5-1 Position of the movable knife and the stationary knife

■ Position of the movable knife
Set the (a 1) part of the movable knife A parallel to the (g 1) part of the stationary holder G.
Set the distance from point of movable knife A and the center of left screw H at approximately 73.5mm.



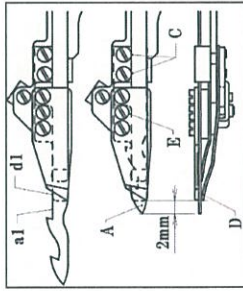
■ Relation between the stationary knife and the movable knife.

Adjust the engagement between blade (a 3) for trimming loop thread and stationary knife to be 2.5mm when movable knife is at the extreme right.
So that the point of blade (a 2) for cutting needle thread pass the corner (b 1) of stationary knife B.
The adjustment is made by loosening screw C.



5-2 Adjusting the looper thread clamp spring

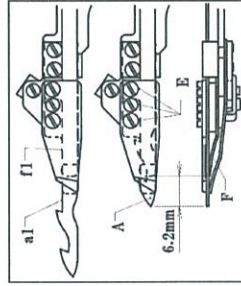
Position of looper thread clamp spring D so that the part (a 1) of movable knife and the part (d 1) of looper thread clamp spring are on the same plane.
And adjust it will protrude approximately 2mm from the point of movable knife A when movable knife is at the extreme right. Adjustment is made by loosening screw C.



To adjust the pressure of thread clamp spring D, turn adjusting screw E. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise.

5-3 Adjusting the movable knife pressure spring

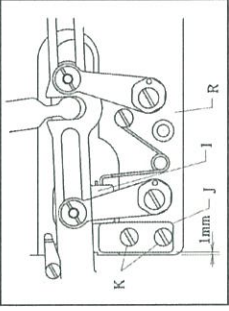
Position of movable knife pressure spring F so that the part (a 1) of movable knife and the part (f 1) of movable knife pressure spring are on the same plane. And adjust it will protrude approximately 5.2mm from the point of movable knife A when movable knife is at the extreme right.
Adjustment is made by loosening screw E.



To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise.

5-4 Adjusting the stationary knife holder stopper

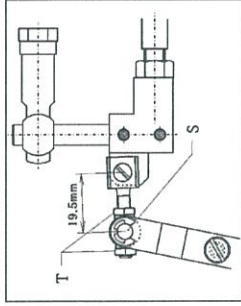
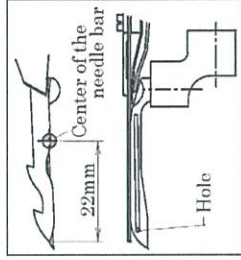
The stationary knife holder I slides to the left and stops by stationary knife holder stopper J.
Never slide the stationary knife holder I to the left too much because the looper thread clamp spring touches the looper. The adjustment is made by loosening screw K and moving stationary knife stopper left and right. The standard position, the left end of stationary knife holder stopper is 1mm right from the left end of base plate R.



5-5 Adjusting the movable knife holder left and right

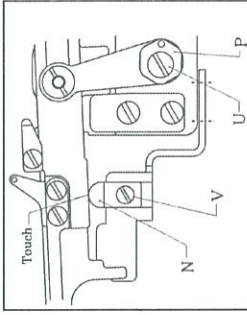
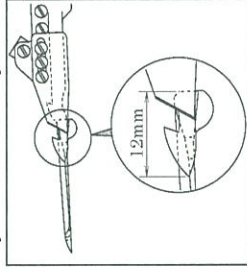
With movable knife A at the extreme left end of its travel, there should be a distance of 19.5mm from the center of the needle bar to the point of movable knife A.

To make the above adjustments, loosen nut T and move the pin S make a fine left-to-right adjustment by turning nut T. The point of the movable knife is center between the point of the looper and the eye's of the looper when move extremely left position of the knife.



5-6 Adjusting the movable knife front to back

To adjust the movable knife front to back, center the point of movable knife over the looper with the point of movable knife 12mm moved to the left from the right end of looper. To adjust, when loosening screw U and turning guide lever P clockwise, the movable knife point moves forward and turning it counterclockwise, the point moves backward.
At the same time, movable knife holder guide N should slightly touch the end of movable knife holder. The adjustment is made by loosening screw V.

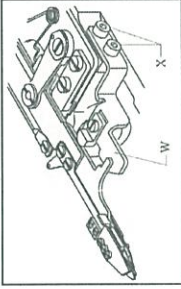
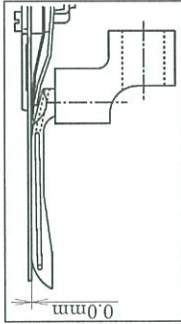


< Note >

In case of the extremely large or small feed amount, necessary fine adjustment of the movable knife position. (See chapter 5 - 8)

5-7 Adjusting the movable knife up and down

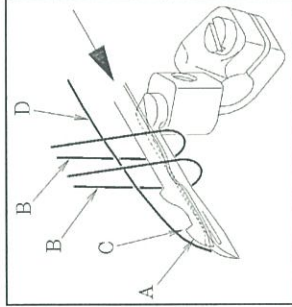
There should be a clearance of 0mm between movable knife and the top surface of looper. The adjustment is made by loosening screw X and moving stationary knife holder guide. After the above adjustment, make sure the movable and stationary knife holders move smoothly.



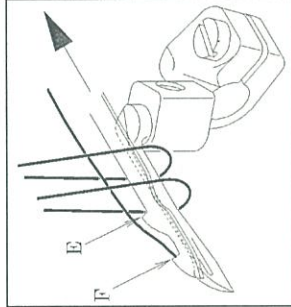
5-8 Relationship between the movable knife, needle thread and looper thread

After all the adjustments are made, check the following before threading to start the machine.

■ Movable knife A should enter needle thread loops B. Cutting edge C for the looper thread should pass looper thread D.

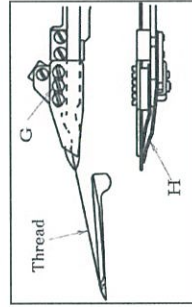


■ When the movable knife is returning home, the needle threads and looper thread are pulled to the right by cutting edges E and F and cut by the stationary knife.



5-9 Looper thread clamp spring pressure

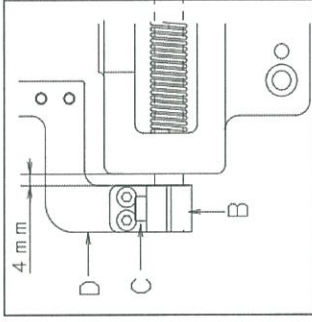
The looper thread clamp spring holds the looper thread after it is cut. To adjust the pressure of thread clamp spring H, turn adjusting screw G. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise. The machine is supplied with a spun thread (#60). The pressure of the thread clamp spring is factory set at approximately 90g. Adjust the pressure for other threads.



[6] ADJUSTING THE THREAD RELEASER

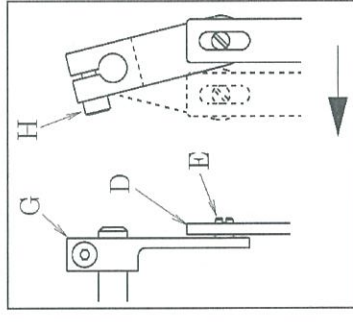
6-1 Thread releaser block

With the thread trimmer air cylinder rod at the left end (the air cylinder is not operating), set the clearance between thread trimmer air cylinder bracket A and thread releaser block B at 4mm. Then tighten screw C.



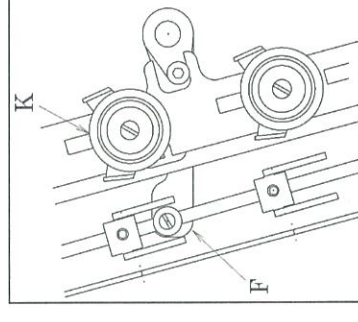
6-2 Thread releaser connection plate

Fit thread releaser connection plate D to guide screw E. Create a clearance between plate D and thread releaser connection lever G. Adjustment is made by loosening screw H.



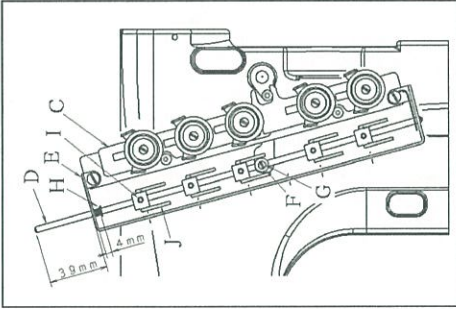
6-3 Thread releaser lever

Position thread releaser lever F so that the thread tension disk can open as fast as possible. Then tighten screw H for thread releaser connection lever G at the rear of the arm.



6-4 Thread releaser plate

Install thread releaser bar D to thread releaser bar connection plate F with screw G.
The top end of thread releaser bar D should protrude 39mm from the top surface of thread releaser bar guide E. There should be a clearance of 4mm between washer H and thread releaser bar guide E.

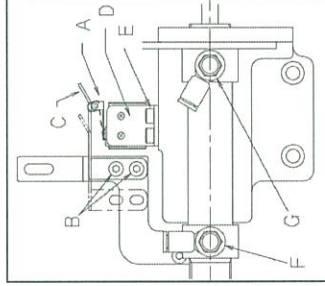


6-5 Thread releaser hook

The needle thread should not protrude long from the underside of the fabric at the start of sewing.
Loosen screw I and adjust thread releaser hook J.
To decrease the amount of the thread supplied by the thread take-up, raise the thread releaser hook.
To increase the amount, lower the thread releaser hook. If the amount is too little, the stitches cannot be formed at the start of sewing.

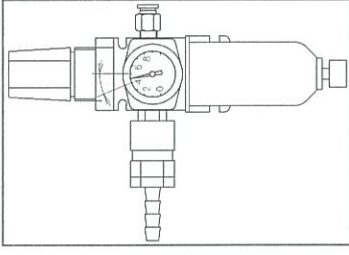
[7] SAFETY DETECTOR

The safety detector is included so that the machine will not start until the thread trimmer cuts the threads and returns home safely.
Switch A of the detector must be pressed (ON) during sewing (with the thread trimmer completely returned home). Adjust by loosening screws B and E and moving brackets C and D.



[8] ADJUSTING THE SPEED CONTROLLER AND AIR PRESSURE (UTA)

Speed controller F controls the speed when the thread trimmer knife holder protrudes. Speed controller G controls the speed when the thread trimmer knife holder retracts. If screw F is too loosened, the holder will protrude too fast and then the position of the movable knife will be unstable, causing cutting error.
If screw G is too loosened, the holder will retract too fast and then the looper thread may not be held properly (the speed controllers are factory-set).

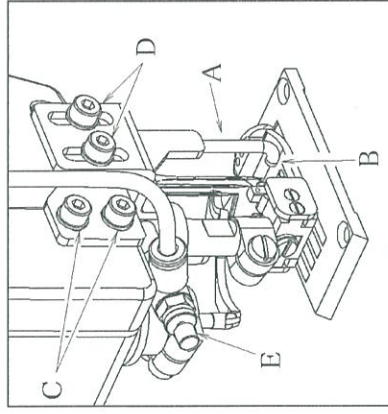
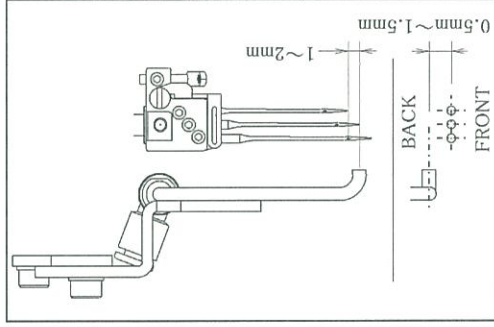


<Note >

Set the regulator at 4~5kg/cm². To increase the pressure, turn the adjusting knob clockwise. Too fast speed will give a shock to the knife holder. Then the threads will be cut before they are caught by the knife or the threads will not be held properly. It may cause trouble.

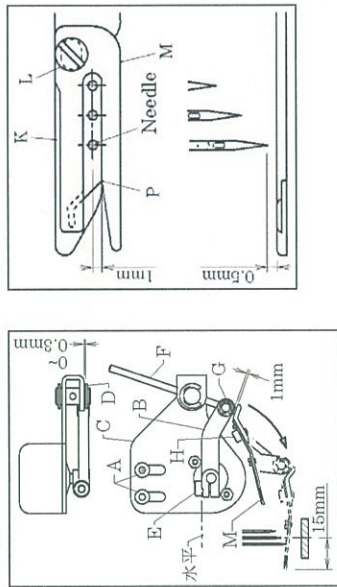
[9] AIR WIPER ADJUSTMENT (UTA, UTAB)

- When the needle bar is at the top of its stroke, position air blowing outlet B 1~2mm below the left needle's eye. Loosen screw D and air wiper up or down required.
- The position of air blowing outlet B should be 0.5~1.5mm from backside of the needles. Loosen screw C and air wiper front or back required.
- Adjusting amount of blowing air by adjust screw E.



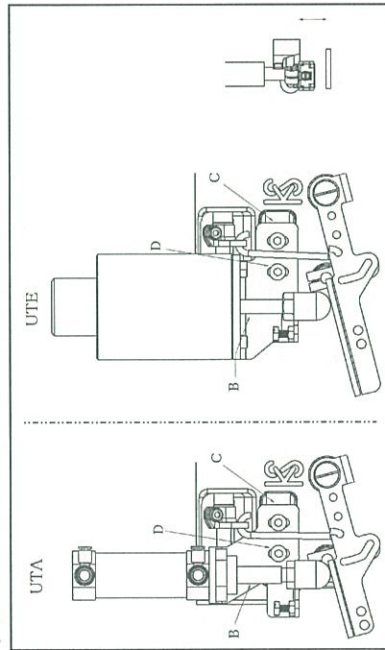
【 10】 THREAD WIPER ADJUSTMENT (UTE)

- Tighten screw E to position lever B horizontally. There should be a 0 to 0.3mm clearance between bracket C and stopper ring D.
- Position thread wiper K with screw H. The distance between the left end of the thread wiper and the center of the needle bar should be approximately 1.5mm when the thread wiper is all the way to the left and clearance between the needle center and point P of the thread wiper should be approximately 1mm.
- The distance between the left needle and thread wiper K should approximately 0.5mm with screw A.
- Position of thread wiper K is parallel with flat spring M with screw L.



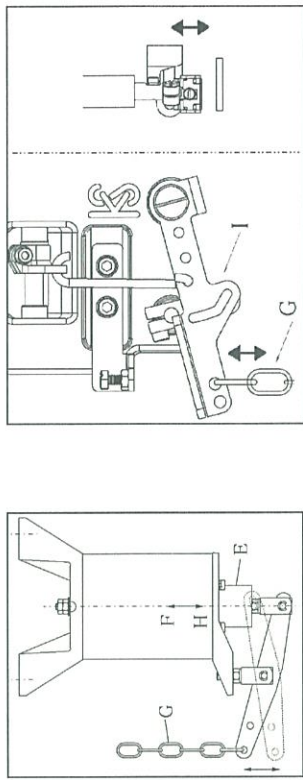
【 11】 ADJUSTING THE PRESSER FOOT LIFT

- Foot lift on the machine with spreader 6mm above the top surface of the needle plate
- Foot lift on the machine without spreader 8mm above the top surface of the needle plate
- To make these adjustment, loosen screw D. Move bracket C up or down.



■ Electric presser foot lifter for P-UTTE

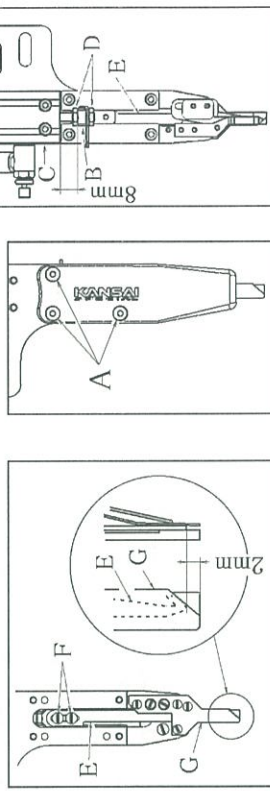
When plunger E moves in direction of F, the presser foot should be 6mm or 8mm above the top surface of the needle plate. Adjust by using chain G. Note that there is a little slack on chain I when plunger E moves in the direction of H. Then make sure the presser foot whether or not the floating when the machine running.



【 12】 ADJUSTING THE TOP COVER THREAD TRIMMER

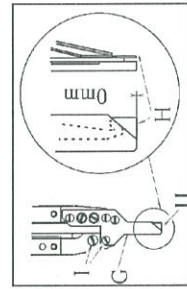
12-1 Relationship between the position of the movable knife and the stationary knife

When the movable knife E retracts all the way, Set the clearance between mount bracket B and the end of the air-cylinder C at 8mm. Tighten nut D. (Model for UTA)
 When the movable knife E retracts all the way, Set the clearance between the end of fixed knife G and the top of the movable knife E at 2mm. Loosen screw A to open the cover, then loosen screw F and adjust knife position.



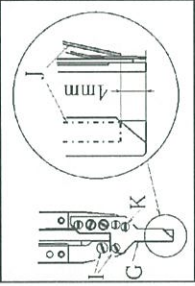
12-2 Adjusting the top cover thread clamp spring

Top cover thread clamp spring H should parallel and same line with end of the stationary knife G. Loosen screws I and adjust spring H



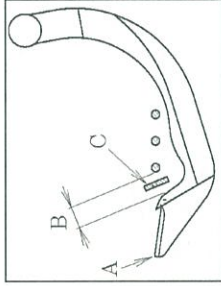
12-3 Adjusting the top cover thread rear spring

Top cover thread rear spring J should parallel and set to approximately 4mm from end G of the stationary knife. Loosen screws I and adjust spring J



12-4 Adjusting the thread clamp pressure

The spring H holds the top cover thread after it is cut. To adjust the pressure of the spring, turn adjusting screw K. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise.

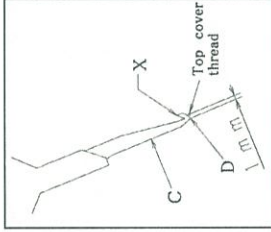


12-5 Adjusting the movable knife left to right

Movable knife C should pass clearance B between spreader A and the left needle. Loosen screw H for bracket G. Adjust movable knife C while checking it does not touch spreader A or the left needle.

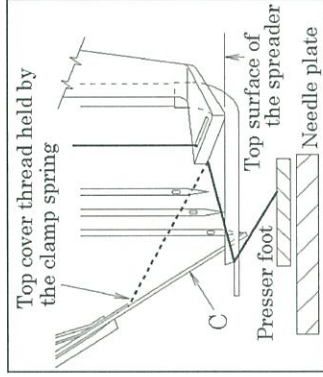
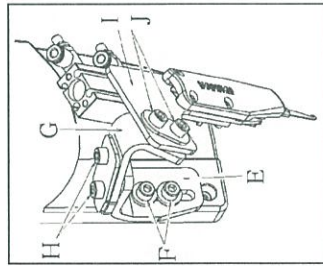
12-6 Adjusting the movable knife front to back

The movable knife should hook the top cover thread when the movable knife returns home. Loosen screws J on movable knife installation base I. Set the clearance between hook end D of movable knife C and the top cover thread at approximately 1mm.



12-7 Adjusting the height of the movable knife

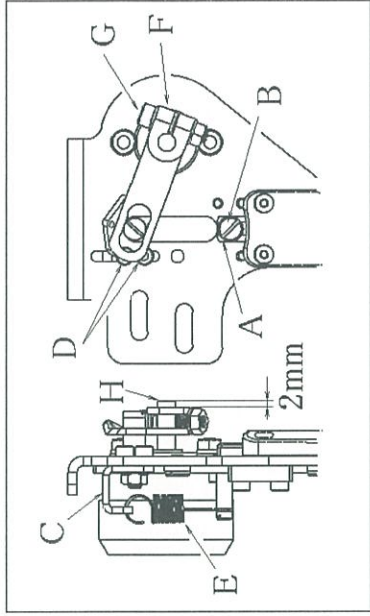
When the movable knife is at the bottom of its travel, hook point X of the movable knife should be aligned with the top surface of the spreader. Then tighten screws F when bracket E is in the lowest position. In case of the UTE series, adjustment is made by moving stoppers A. Loosen screw B for stopper. (See the illustration on the next page)



< Note >
Turn off the motor, position the fabric under the presser foot and then adjust by hand.

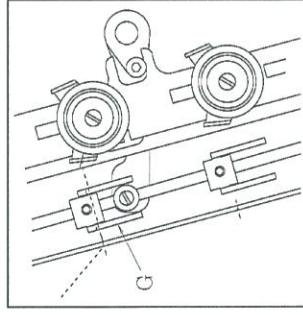
12-8 Adjusting the solenoid return spring (UTE)

To adjust the returning pressure of the movable knife, loosen screw D for spring hook C and move spring hook C up or down. To increase the pressure, move up hook C. To decrease the pressure, move down hook C. The pressure of spring E should be as light as possible, yet be sufficient to return the movable knife home correctly when the solenoid gets actuated. Set the clearance between drive lever F and solenoid shaft H at approximately 2mm. Then tighten screw F for drive lever B.



12-9 Adjusting the top cover thread releaser hook

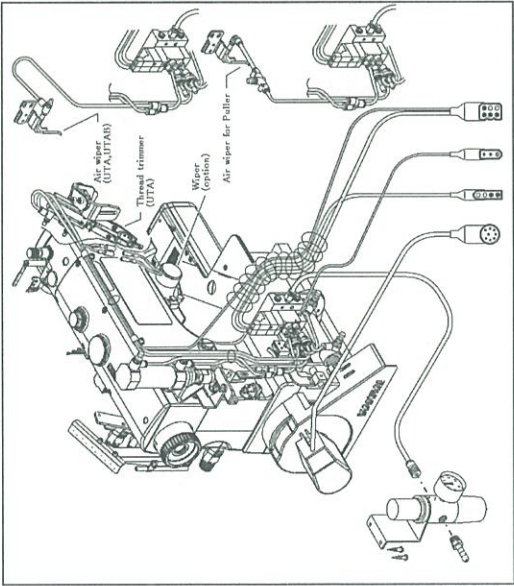
To decrease the amount of the thread supplied by the thread take-up, move up thread releaser hook G. To increase the amount of the thread supplied by the thread take-up, move down thread releaser hook G. If the amount is too small, the top cover thread cannot be held after it is cut.



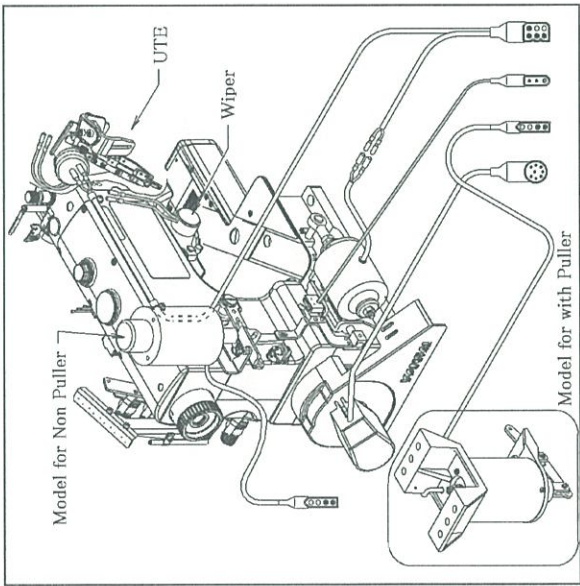
[13] WIRING AND PIPING FOR PNEUMATIC DEVICES

■ Model for UTA, UTAB

Connect air lines and cords by referring to the illustration below and the parts list.



■ Model for UTE



株式会社 森本製作所

本社 〒575-0001 大阪府四條畷市砂 一丁目 4 番 17 号 TEL: 072-877-1221 FAX: 072-878-9649

MORIMOTO MFG. CO., LTD.

1-4-17, SUNA, SHIJONAWATE-CITY, OSAKA 575-0001, JAPAN
TEL: +81-72-877-1221 FAX: +81-72-878-9649 E-MAIL: hqeigyo@kansai-special.com URL: www.kansai-special.com

FOREIGN AFFILIATED COMPANIES

KANSAI SPECIAL AMERICAN MACHINE CORP.

1 MADISON ST. BLDG. F, EAST RUTHERFORD, N.J. 07073 U.S.A.

TEL: +1-973-470-8321 FAX: +1-973-470-8497

KANSAI SPECIAL EUROPE GMBH

QUIRINSTR. 19, 40545 DUSSELDORF, GERMANY

TEL: +49-211-577-9090 FAX: +49-211-558-1477 E-MAIL: contact@kansai-special.de

MORIMOTO SINGAPORE PTE LTD.

NO.51 PENJURU ROAD #02-02 SINGAPORE 609143

TEL: +65-6334-1305 FAX: +65-6334-1365 E-MAIL: info@kansaispecial.com.sg

MORIMOTO INDIA LIAISON OFFICE

NO.11 SENTHILL NAGAR, PERRIYAR COLONY, AVINASHI ROAD, TIRUPUR, INDIA 641601

TEL: +91-421-4248229 FAX: +91-421-4286600 Tech Support TEL: +91-770-8300100

E-MAIL: india@kansaispecial.com.sg

MORIMOTO BANGLADESH LIAISON OFFICE

FLAT #2/B.HOUSE #16, ROAD#13, SECTOR#04 UTTARA, DHAKA-1230 BANGLADESH

TEL: +88-02-8931702 FAX: +88-02-8931704 E-MAIL: bangladesh@kansaispecial.com.sg

KANSAI (SHANG HAI) INDUSTRIAL SEWING MACHINE CO., LTD

NO.55 LANE835, JIAXIN ROAD, MALU TOWN, JIADING DISTRICT, SHANGHAI 201818, CHINA

TEL: +86-21-5990-1798 FAX: +86-21-5990-1538 E-MAIL: kansaish@spe.sina.net
