

# PARTS LIST & INSTRUCTION

## *NC* **SERIES**

Industrial Sewing Machines

*PARTS LIST 2st March2016*  
*INSTRUCTION 2st March2016*

No. 160018

**KANSAI**  
SPECIAL®

■このパーツブックは、2016年3月製造中のNCシリーズ  
のデータに基づいて作成されたものです。

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

■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。

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

■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。

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

■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。

■Parts are subject to change without  
notice.

## NCシリーズ 表示方法

## NC SERIES INFORMATION

■NC1103は上飾り付です。

NC1103 is with top cover thread.

NC1003は上飾り無しです。

NC1003 is without top cover thread.

■針幅です。(インチ)

Needle width (inch)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| N | C | 1 | 1 | 0 | 3 | G | C | L | - | U | T | A | - | 7 | / | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

■3は3本針です。

3 is 3 Needle machine.

■UTAはエア式糸切装置付マシンです。

UTA is with thread trimmer unit.  
(PNEUMATIC TYPE)

UTEは電気式糸切装置付マシンです。

UTE is with thread trimmer unit.  
(ELECTRIC TYPE)

UTABはUTAのエアブロー式糸切装置付マシンです。

UTAB is UTA with air wiper  
without top cover thread trimmer.

■CLはカバーリング用です。(標準、片倒し)

CL for covering operation. (standard/fold-down)

DAは地縫い及び裾引き用です。

DA for plain seaming and hemming operation.

SJはジーンズ裾三巻用です。

SJ for hemming trouser bottoms and sleeves on jeans wear.

SJFは開閉ホルダー付です。

SJF for openable rolled hemming folder, enclosing fixed folder

CDはコンデンス付きです。

CD for stitch condensing device

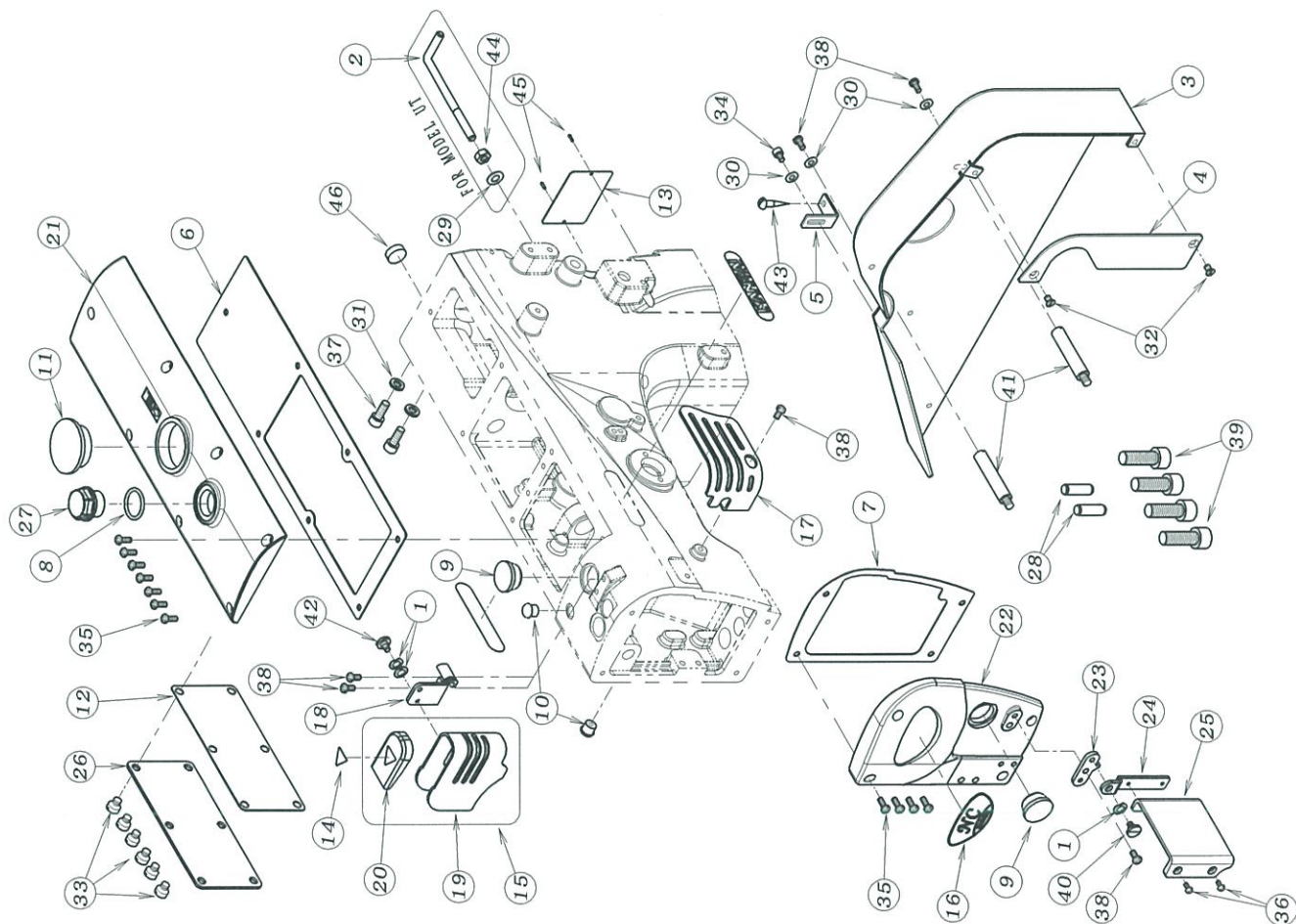
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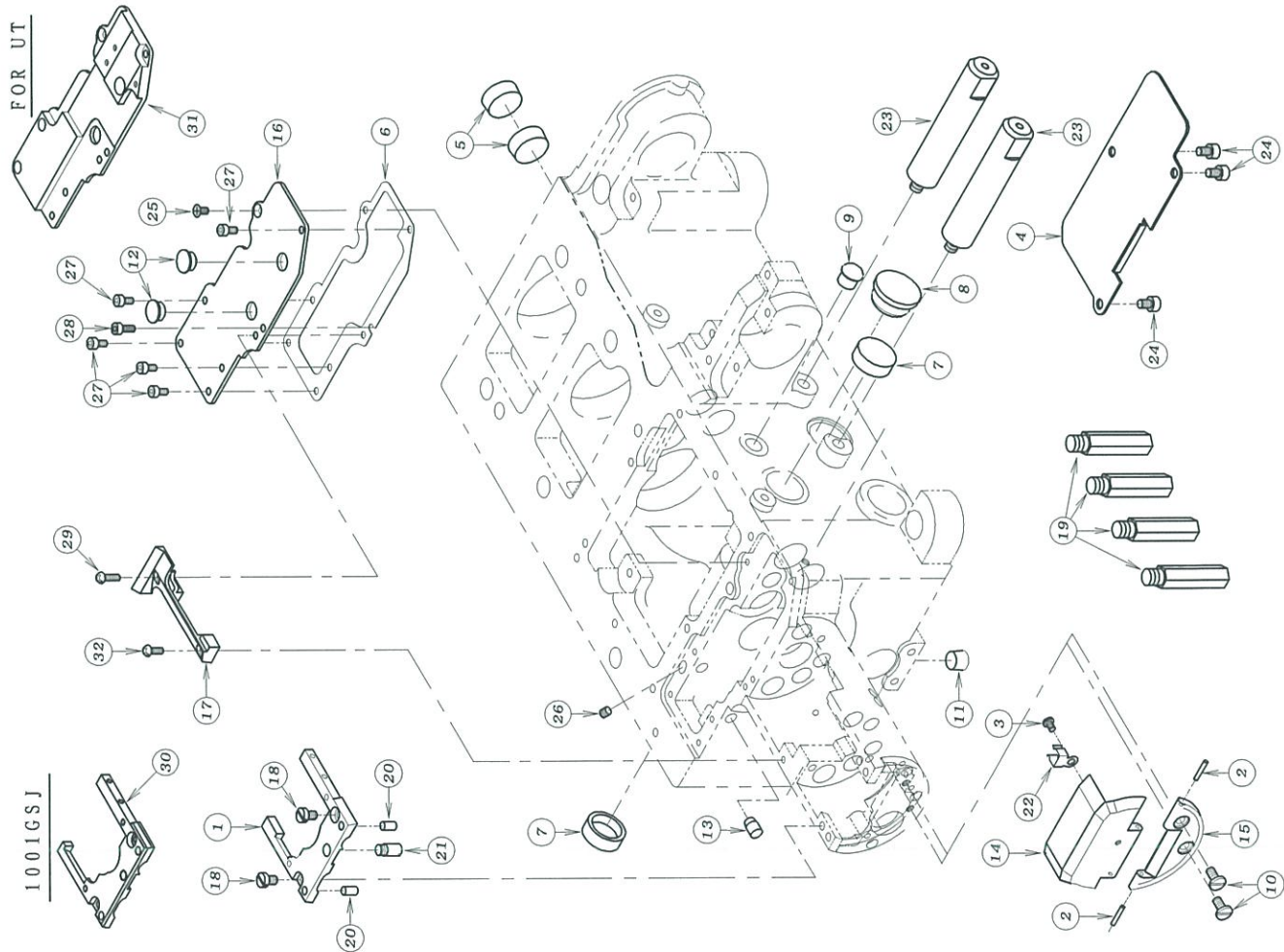
# 1. フレーム関係 (1) FRAME ASSEMBLY (1)



| REF. NO. | PART NO. | 品名        | DESCRIPTION            | Q'TY |
|----------|----------|-----------|------------------------|------|
| 01-01    | 02-119   | 波座金       | WASHER                 | 3    |
| 01-02    | 05-292   | ボネジョナハ    | BAR                    | 1    |
| 01-03    | 21-102W  | フーリーカハ    | PULLEY COVER           | 1    |
| 01-04    | 21-699   | フーリーカハ    | PLATE                  | 1    |
| 01-05    | 21-819   | フーリーカハ    | BRACKET                | 1    |
| 01-06    | 23-041   | トップカハ     | GASKET                 | 1    |
| 01-07    | 23-045   | 面蓋ハ       | GASKET                 | 1    |
| 01-08    | 23-287   | O-リング     | O RING                 | 1    |
| 01-09    | 23-427   | コム栓       | PLUG                   | 2    |
| 01-10    | 23-501   | コム栓       | PLUG                   | 2    |
| 01-11    | 23-504   | コム栓       | PLUG                   | 1    |
| 01-12    | 23-538   | ハネツキン     | GASKET                 | 1    |
| 01-13    | 24-053   | モデルステッカー  | TYPE PLATE             | 1    |
| 01-14    | 24-060   | 針棒カバー     | SEAL                   | 1    |
| 01-15    | 20-0008  | 針棒カバー     | NEEDLE BAR COVER ASS'Y | 1    |
| 01-16    | 24-064   | 機種プレート    | MODEL PLATE            | 1    |
| 01-17    | 27-231   | 天幕カハ      | COVER                  | 1    |
| 01-18    | 27-233   | 針棒カハ      | BRACKET                | 1    |
| 01-19    | 27-234   | 針棒カハ      | NEEDLE BAR COVER       | 1    |
| 01-20    | 27-235   | 針棒カハ      | RUBBER                 | 1    |
| 01-21    | 27-237W  | トップカハ     | TOP COVER              | 1    |
| 01-22    | 27-238W  | 面蓋        | HEAD COVER             | 1    |
| 01-23    | 27-239   | アイカハ      | HINGE                  | 1    |
| 01-24    | 27-240   | アイカハ      | HINGE                  | 1    |
| 01-25    | 27-241   | アイカハ      | EYE GUARD              | 1    |
| 01-26    | 27-323W  | 後カハ       | REAR COVER             | 1    |
| 01-27    | 39-235   | オイルポット    | OIL POT                | 1    |
| 01-28    | 71-580   | ノックピン     | PIN                    | 2    |
| 01-29    | 75-452   | ワッシャ      | WASHER                 | 1    |
| 01-30    | 75-455   | ワッシャ      | WASHER                 | 3    |
| 01-31    | 75-552   | ワッシャ      | WASHER                 | 2    |
| 01-32    | 84-661   | ネジ        | SCREW                  | 2    |
| 01-33    | 87-053   | スリワリ付小ネジ  | SCREW M6 x 6 L         | 6    |
| 01-34    | 87-092   | 六角穴付きボルト  | BOLT                   | 1    |
| 01-35    | 87-483   | プラマイナベ小ねじ | SCREW                  | 11   |
| 01-36    | 87-477   | プラマイナベ小ねじ | SCREW                  | 2    |
| 01-37    | 87-171   | 六角穴付きボルト  | BOLT                   | 2    |
| 01-38    | 87-482   | 六角穴付きボルト  | SCREW                  | 6    |
| 01-39    | 87-228   | 六角穴付きボルト  | BOLT                   | 4    |
| 01-40    | 87-264   | 段ネジ       | SCREW                  | 1    |
| 01-41    | 87-411   | 支柱ネジ      | SCREW                  | 2    |
| 01-42    | 87-437   | 段ネジ       | SCREW                  | 1    |
| 01-43    | 87-905   | 本ネジ       | SCREW                  | 1    |
| 01-44    | 88-166   | ナット       | NUT                    | 1    |
| 01-45    | 93-701   | ピン        | PIN                    | 2    |
| 01-46    | 94-504   | シールキャップ   | PLUG                   | 1    |

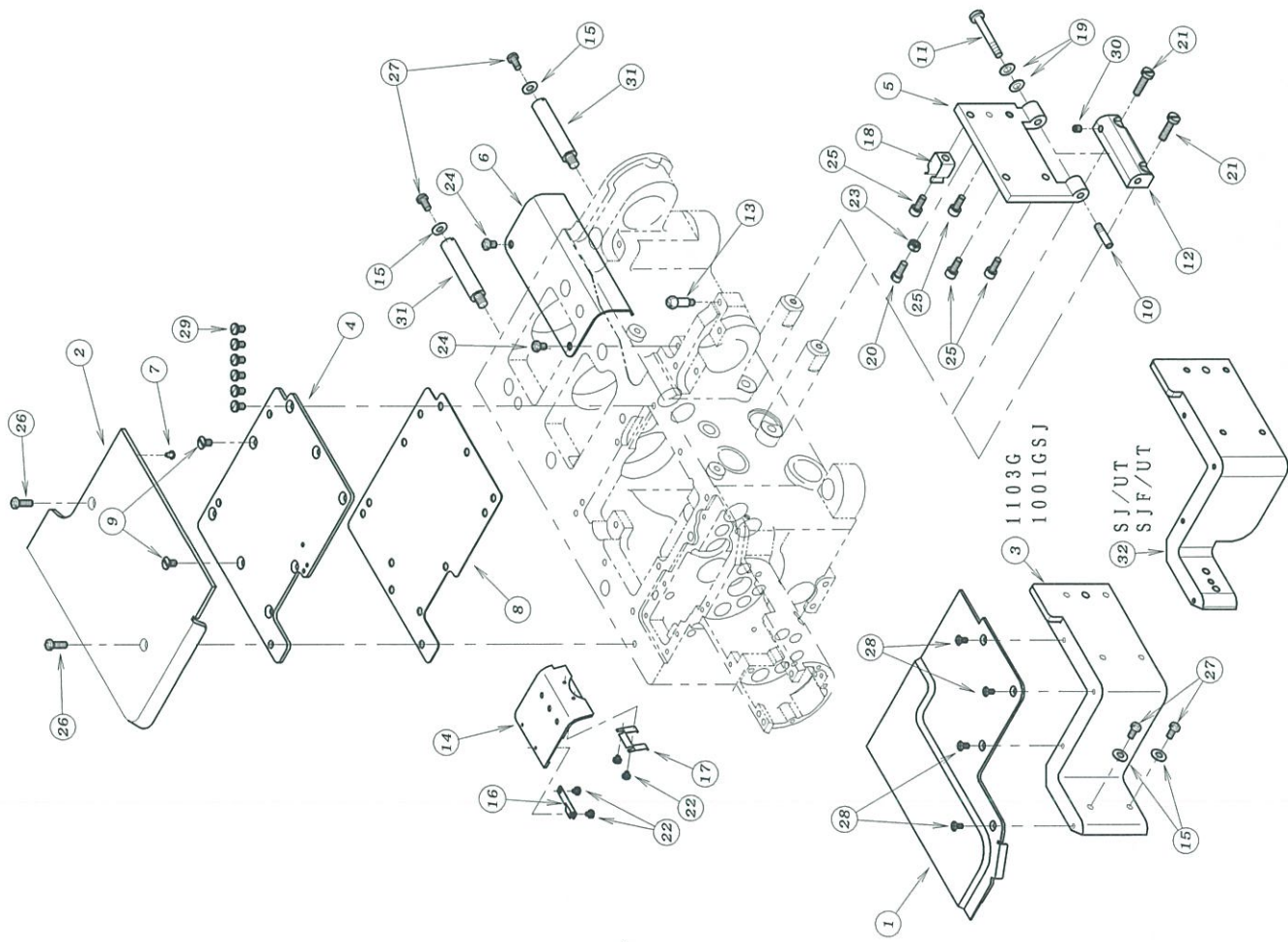


## 2. フレーム関係 (2) FRAME ASSEMBLY (2)



| REF. NO. | PART NO.  | 品 名        | DESCRIPTION                  | Q'TY |
|----------|-----------|------------|------------------------------|------|
| 02-01    | 14-113    | 針板土台       | NEEDLE SUPPORT BRACKET       | 1    |
| 02-02    | 17-8010-G | ピン         | PIN                          | 2    |
| 02-03    | 87-166    | ネジ         | SCREW                        | 1    |
| 02-04    | 21-640    | 防塵フタ       | PLATE                        | 1    |
| 02-05    | 23-127    | ゴム栓        | PLUG                         | 2    |
| 02-06    | 23-130    | パッキン       | GASKET                       | 1    |
| 02-07    | 94-506    | シールキャップ    | PLUG                         | 2    |
| 02-08    | 23-427    | ゴム栓        | PLUG                         | 1    |
| 02-09    | 23-501    | ゴム栓        | PLUG                         | 1    |
| 02-10    | 87-288    | ネジ         | SCREW                        | 2    |
| 02-11    | 23-528    | フタ         | PLUG                         | 1    |
| 02-12    | 23-533    | ゴム栓        | PLUG                         | 2    |
| 02-13    | 25-525    | アルミ栓       | PLUG                         | 1    |
| 02-14    | 27-115    | 横カバー (上)   | SIDE COVER (UPPER)           | 1    |
| 02-15    | 27-116    | 横カバー (下)   | SIDE COVER (LOWER)           | 1    |
| 02-16    | 27-117    | ベッテ上カバー    | COVER                        | 1    |
| 02-17    | 27-120W   | 補助カバー      | COVER                        | 1    |
| 02-18    | 87-284    | ネジ         | SCREW                        | 2    |
| 02-19    | 87-258    | スタントピン     | PIN                          | 4    |
| 02-20    | 71-136    | ノックピン      | PIN                          | 2    |
| 02-21    | 87-433    | 段ネジ        | SCREW                        | 1    |
| 02-22    | 79-106    | 横カバー板ネジ    | HINGE                        | 1    |
| 02-23    | 84-502    | ヒンジ取り付台    | HINGE BASE                   | 2    |
| 02-24    | 87-092    | 六角穴付きボルト   | SCREW                        | 3    |
| 02-25    | 87-212    | ネジ         | SCREW                        | 1    |
| 02-26    | 87-106    | ネジ         | HINGE                        | 1    |
| 02-27    | 87-123    | 六角穴付きボルト   | SCREW                        | 5    |
| 02-28    | 87-124    | ネジ         | SCREW                        | 1    |
| 02-29    | 87-479    | ブラマインベス小ねじ | SCREW                        | 1    |
| 02-30    | 14-143    | 針板土台       | NEEDLE PLATE SUPPORT BRACKET | 1    |
| 02-31    | 27-118    | ベッテ上カバーUT  | COVER                        | 1    |
| 02-32    | 87-478    | ブラマインベス小ねじ | SCREW                        | 1    |

### 3. フレーム関係 (3) FRAME ASSEMBLY (3)

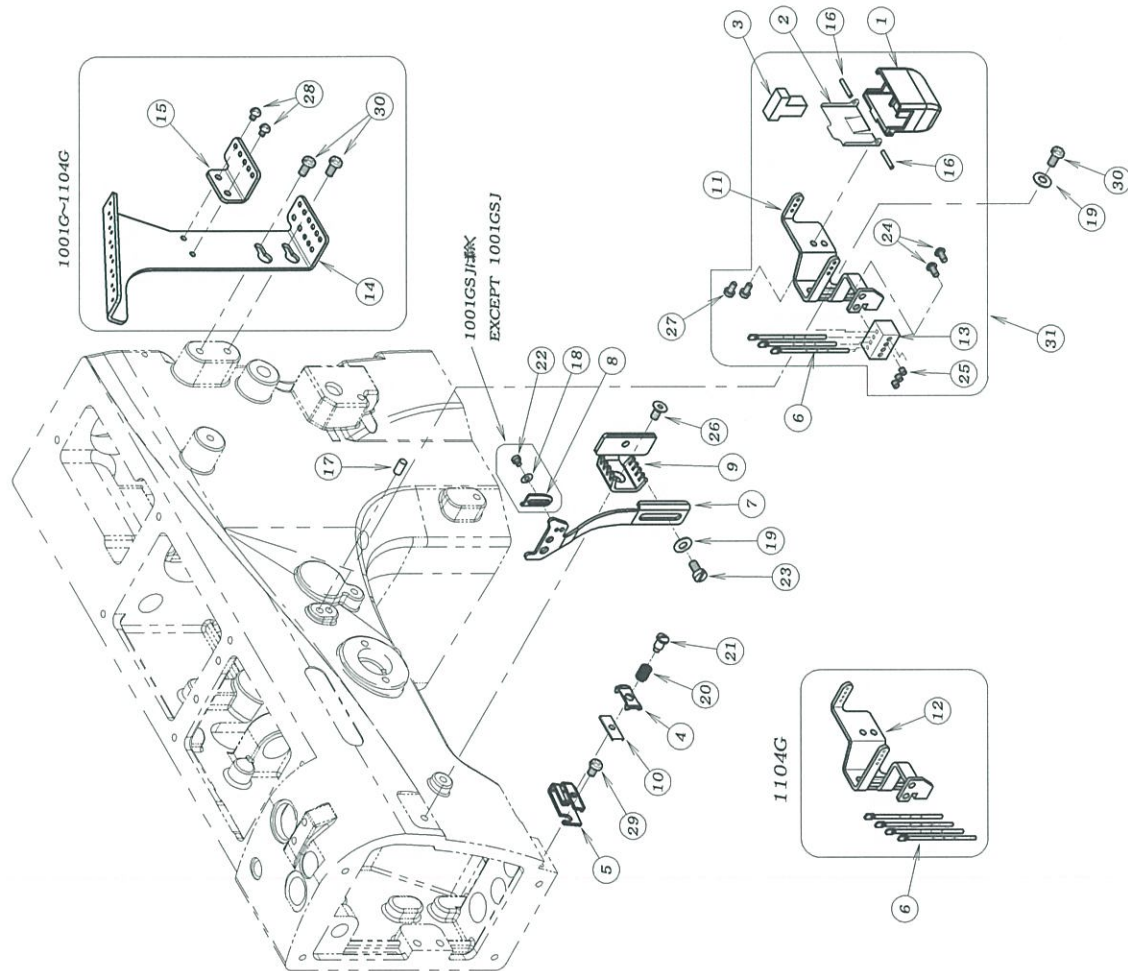


| REF. NO. | PART NO. | 品 名             | DESCRIPTION      | Q'TY |
|----------|----------|-----------------|------------------|------|
| 03-01    | 21-138W  | 定規板             | FRONT COVER      | 1    |
| 03-02    | 21-150W  | 上ベースカバー         | UPPER COVER      | 1    |
| 03-03    | 21-160W  | 定規台             | FRONT COVER      | 1    |
| 03-04    | 21-643   | 上油カバー           | COVER            | 1    |
| 03-05    | 27-909   | 前カバー - 取付板      | COVER SUPPORT    | 1    |
| 03-06    | 21-714   | ハマカ' リ軸カバー      | COVER            | 1    |
| 03-07    | 23-512   | クッションゴ' A       | CUSHION RUBBER   | 1    |
| 03-08    | 23-513   | パ' ッキン          | BED COVER GASKET | 1    |
| 03-09    | 05-061   | ネジ'             | SCREW            | 2    |
| 03-10    | 25-503   | カバー - ヒンジ' ネジ'  | SCREW            | 1    |
| 03-11    | 25-517   | ヒンジ' ネジ'        | SCREW            | 1    |
| 03-12    | 25-529W  | 前カバー - ヒンジ'     | HINGE            | 1    |
| 03-13    | 25-522   | カバー - ストップ' ネジ' | SCREW            | 1    |
| 03-14    | 27-119   | シリンド' - カバー     | COVER            | 1    |
| 03-15    | 75-455   | ワッシャ            | WASHER           | 4    |
| 03-16    | 79-104   | 板バネ (後)         | SPRING           | 1    |
| 03-17    | 79-107   | 板バ' ネ (前)       | SPRING           | 1    |
| 03-18    | 79-912   | バ' ネ            | SPRING           | 1    |
| 03-19    | 79-922   | 皿バ' ネ           | SPRING           | 2    |
| 03-20    | 84-572   | ネジ'             | SCREW            | 1    |
| 03-21    | 84-579   | ネジ'             | SCREW            | 2    |
| 03-22    | 85-101   | ネジ'             | SCREW            | 4    |
| 03-23    | 86-311   | ナット             | NUT              | 1    |
| 03-24    | 87-481   | プラマイナベ' 小ねじ     | SCREW            | 2    |
| 03-25    | 87-113   | 六角穴付きボルト        | SCREW            | 4    |
| 03-26    | 87-484   | プラマイナベ' 小ねじ     | SCREW            | 2    |
| 03-27    | 87-482   | プラマイナベ' 小ねじ     | SCREW            | 4    |
| 03-28    | 87-212   | ネジ'             | SCREW            | 4    |
| 03-29    | 87-415   | ネジ'             | SCREW            | 4    |
| 03-30    | 87-286   | ネジ'             | SCREW            | 1    |
| 03-31    | 87-411   | 支柱ネジ            | SCREW            | 1    |
| 03-32    | 27-584   | 定規台             | FRONT COVER      | 1    |



# 4. 糸調子機構

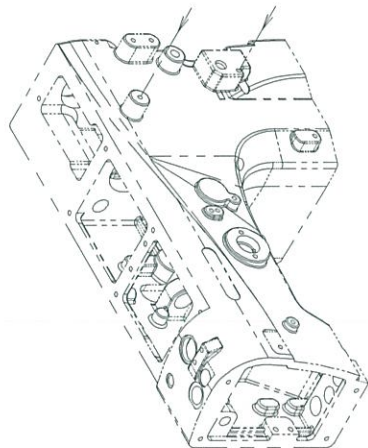
## THREAD TENSION MECHANISM



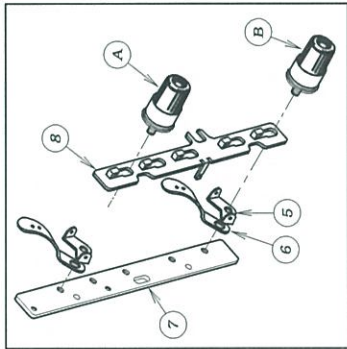
| REF. NO. | PART NO.  | 品 名          | DESCRIPTION            | Q'TY |
|----------|-----------|--------------|------------------------|------|
| 04-01    | 27-039    | シリコンタンク      | SILICONE OIL RESERVOIR | 1    |
| 04-02    | 27-533    | シリコンタンクフタ    | COVER                  | 1    |
| 04-03    | 27-534    | フェルト         | FELT                   | 1    |
| 04-04    | 41-021    | カメラ糸道        | THREAD NIPPER          | 1    |
| 04-05    | 41-022    | 小調子台         | THREAD GUIDE BRACKET   | 1    |
| 04-06    | 45-031    | 糸道           | THREAD EYELET          | 7    |
| 04-07    | 45-033    | 上糸捌き         | THREAD GUIDE           | 1    |
| 04-08    | 45-034    | 補助上糸捌き       | THREAD GUIDE           | 1    |
| 04-09    | 45-038    | 上糸ガイド        | THREAD GUIDE           | 1    |
| 04-10    | 45-508    | 針床小調子板       | PLATE                  | 1    |
| 04-11    | 45-541    | シリコンタンク糸道    | THREAD EYELET          | 1    |
| 04-12    | 45-551    | シリコンタンク糸道    | THREAD EYELET          | 1    |
| 04-13    | 45-553    | ホルダー         | HOLDER                 | 1    |
| 04-14    | 45-567    | 糸ガイド         | THREAD GUIDE           | 1    |
| 04-15    | 45-568    | 糸ガイド糸道       | THREAD EYELET          | 1    |
| 04-16    | 71-202    | シリコンタンク用ピン   | SILICONE PIN           | 2    |
| 04-17    | 71-209    | 平行ピン         | PIN                    | 1    |
| 04-18    | 75-441    | ワッシャー        | WASHER                 | 1    |
| 04-19    | 75-455    | ワッシャー        | WASHER                 | 2    |
| 04-20    | 79-025    | カメラ糸道バネ      | SPRING                 | 1    |
| 04-21    | 84-021    | ハネガイドネジ      | SCREW                  | 1    |
| 04-22    | 87-093    | ネジ           | SCREW                  | 1    |
| 04-23    | 87-096    | ネジ           | SCREW                  | 1    |
| 04-24    | 87-099    | ネジ           | SCREW                  | 2    |
| 04-25    | 87-104    | ネジ           | SCREW                  | 3    |
| 04-26    | 87-269    | ネジ           | SCREW                  | 1    |
| 04-27    | 87-372    | タップピンネジ      | SCREW                  | 2    |
| 04-28    | 87-476    | ブラマイナベ小ねじ    | SCREW                  | 2    |
| 04-29    | 87-481    | ブラマイナベ小ねじ    | SCREW                  | 1    |
| 04-30    | 87-482    | ブラマイナベ小ねじ    | SCREW                  | 3    |
| 04-31    | 40-523W-3 | シリコンタンク糸道セット | THREAD EYELET ASS'Y    | 1    |

# 5. 糸調子機構 (UT 除外)

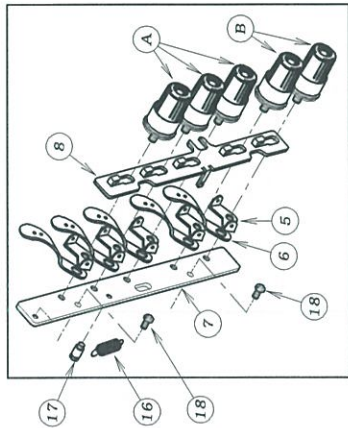
## THREAD TENSION MECHANISM (WITHOUT UT)



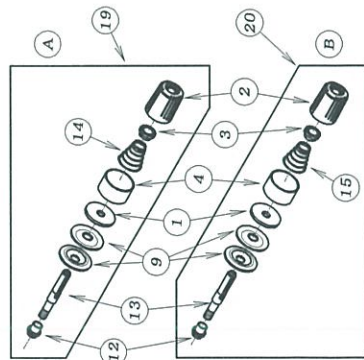
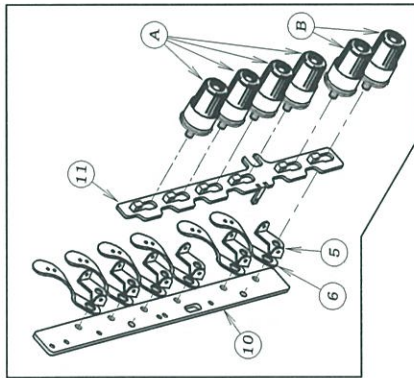
1001GSJ



1103G



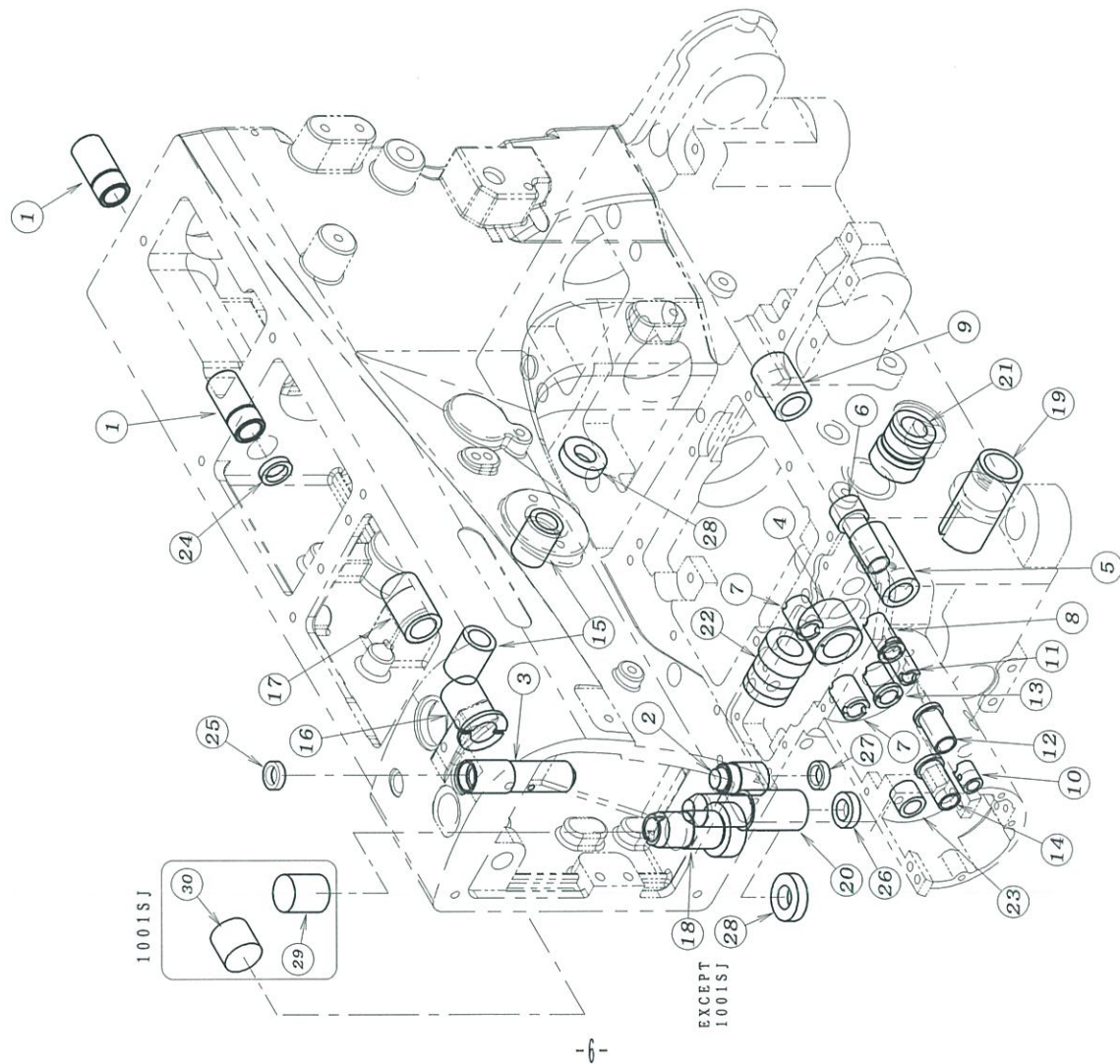
1104G



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



# 6. ブッシュ機構 BUSHING

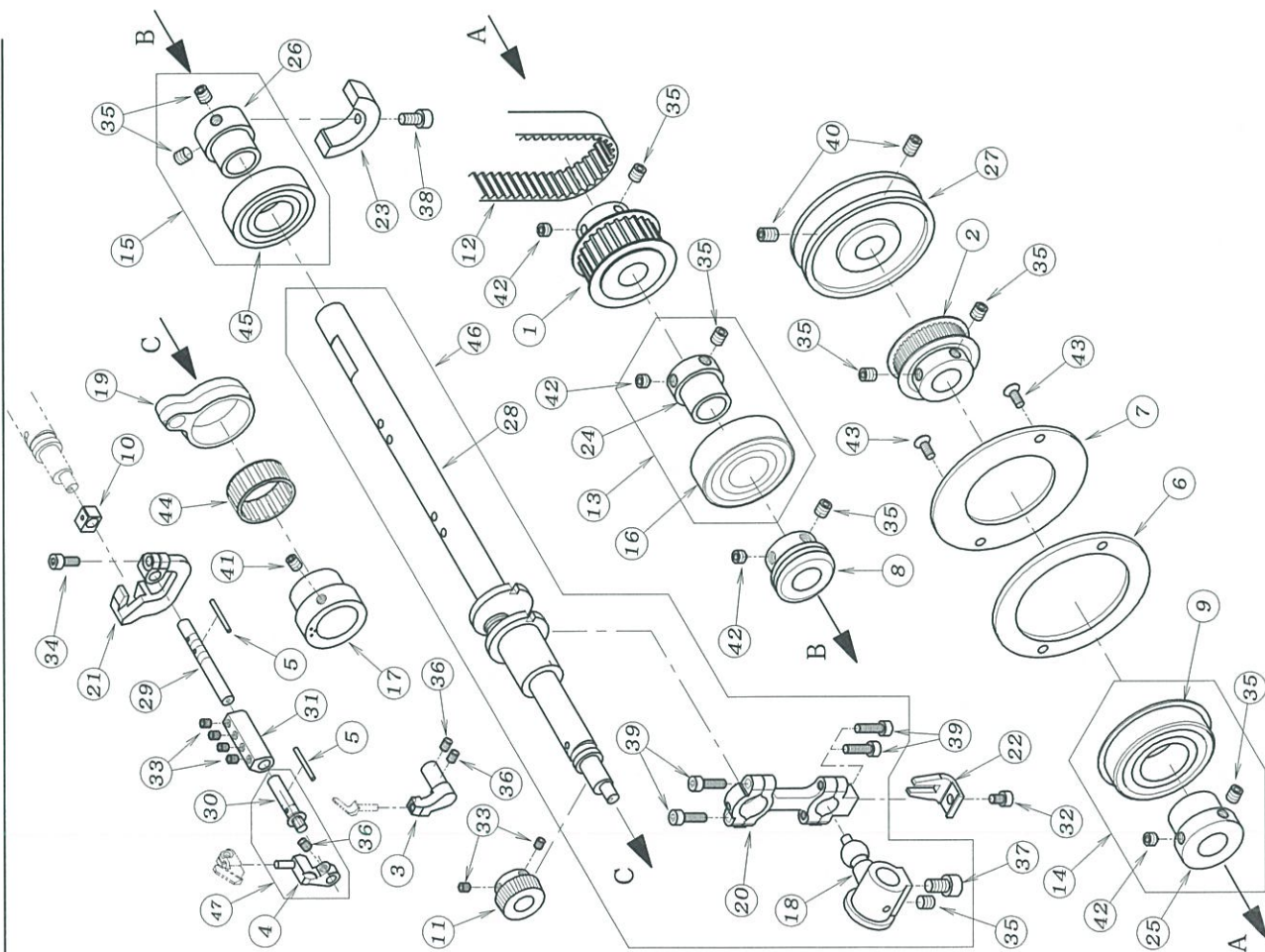


| REF. NO. | PART NO. | 品 名              | DESCRIPTION    | Q' TY |
|----------|----------|------------------|----------------|-------|
| 06-01    | 81-023   | 押エ器付 運動シャフトブッシュ  | BUSHING        | 2     |
| 06-02    | 81-047   | 針棒付 ブッシュ (下)     | BUSHING        | 1     |
| 06-03    | 81-048   | 針棒付 ブッシュ (上)     | BUSHING        | 1     |
| 06-04    | 81-076   | 下軸付 ブッシュ         | BUSHING        | 1     |
| 06-05    | 81-077   | 前後軸付 ブッシュ (大, 左) | BUSHING        | 1     |
| 06-06    | 81-078   | 送り上下軸付 ブッシュ前 (右) | BUSHING        | 1     |
| 06-07    | 81-079   | 上下軸付 ブッシュ後小      | BUSHING        | 2     |
| 06-08    | 81-086   | 送り上下軸付 ブッシュ      | BUSHING        | 1     |
| 06-09    | 81-089   | ブッシュ             | BUSHING        | 1     |
| 06-10    | 81-092   | ブッシュ             | BUSHING        | 1     |
| 06-11    | 81-093   | ブッシュ             | BUSHING        | 1     |
| 06-12    | 81-094   | ブッシュ             | BUSHING        | 1     |
| 06-13    | 81-095   | ブッシュ             | BUSHING        | 1     |
| 06-14    | 81-097   | ブッシュ             | BUSHING        | 1     |
| 06-15    | 81-506   | ブッシュ             | BUSHING        | 2     |
| 06-16    | 81-507   | ブッシュ             | BUSHING        | 1     |
| 06-17    | 81-508   | ブッシュ             | BUSHING        | 1     |
| 06-18    | 81-587   | 筒形条付 針棒付 ブッシュ    | BUSHING        | 1     |
| 06-19    | 81-518   | ブッシュ             | BUSHING        | 1     |
| 06-20    | 81-546   | ブッシュ             | BUSHING        | 1     |
| 06-21    | 81-580   | ルーパー 振り元軸付ブッシュ   | BUSHING        | 1     |
| 06-22    | 81-581   | ルーパー 振り元軸付ブッシュ   | BUSHING        | 1     |
| 06-23    | 91-113   | ニードル付 プリンク       | NEEDLE BEARING | 1     |
| 06-24    | 94-102   | オイルシール           | OIL SEAL       | 1     |
| 06-25    | 94-231   | オイルシール           | OIL SEAL       | 1     |
| 06-26    | 94-503   | オイルシール           | OIL SEAL       | 1     |
| 06-27    | 94-511   | オイルシール           | OIL SEAL       | 1     |
| 06-28    | 94-804   | オイルシール           | OIL SEAL       | 2     |
| 06-29    | 25-506   | 詰栓               | SEAL PLUG      | 1     |
| 06-30    | 25-507   | 詰栓               | SEAL PLUG      | 1     |



# 7. 針受け及び下軸機構

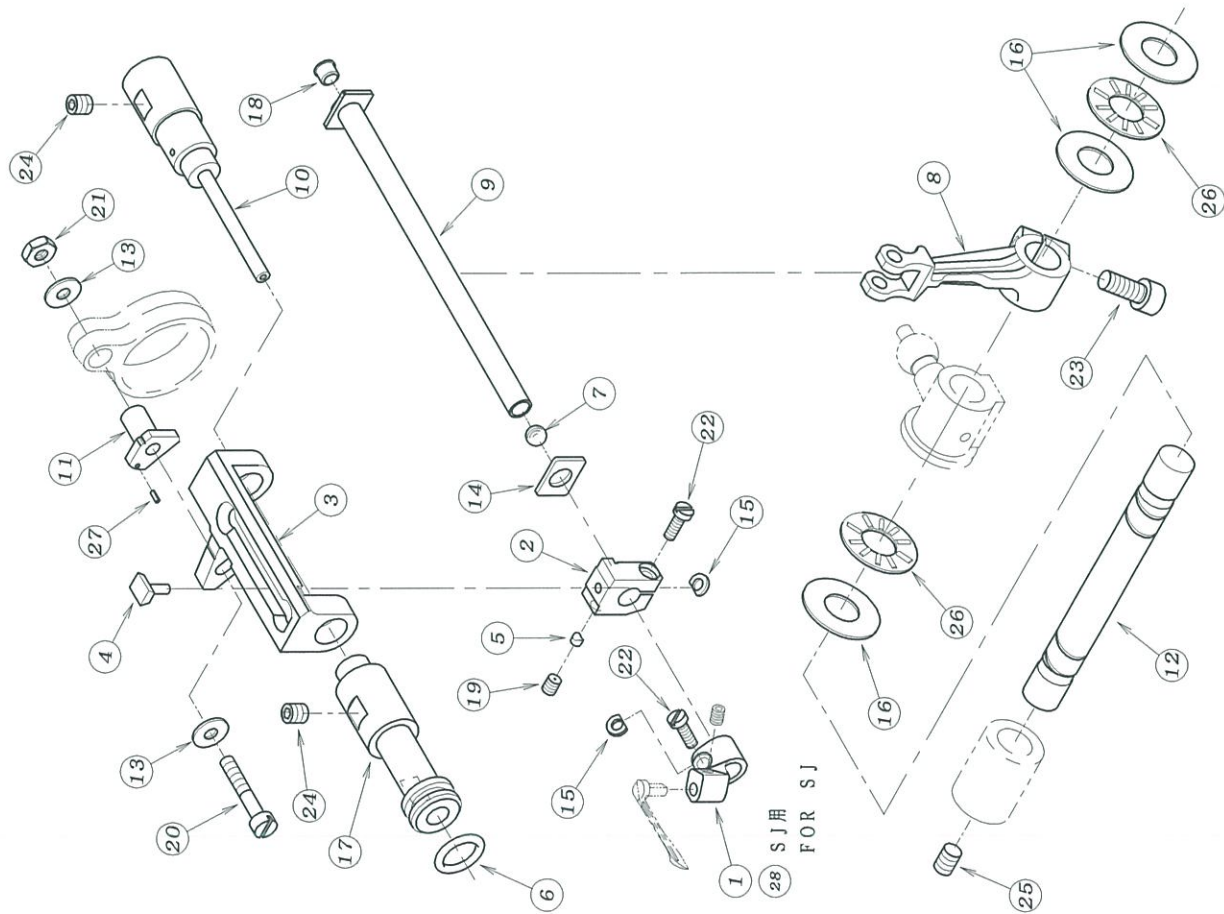
## NEEDLE GUARD & CRANKSHAFT MECHANISM



| REF. NO. | PART NO. | 品 名           | DESCRIPTION               | Q'TY |
|----------|----------|---------------|---------------------------|------|
| 07-01    | 06-239   | タイミングプーリー (下) | TIMING PULLEY             | 1    |
| 07-02    | 06-446   | タイミングプーリー (後) | TIMING PULLEY             | 1    |
| 07-03    | 18-109   | 針ガイドブラケット     | BRACKET                   | 1    |
| 07-04    | 18-121   | 針受けブラケット後     | NEEDLE GUARD HOLDER       | 1    |
| 07-05    | 23-531   | フェルト          | FELT                      | 2    |
| 07-06    | 25-519   | ベアリング止め板 (A)  | SET PLATE (A)             | 1    |
| 07-07    | 25-520   | ベアリング止め板 (B)  | SET PLATE (B)             | 1    |
| 07-08    | 31-540   | ポンプ駆動ギア       | PUMP DRIVING WARM         | 1    |
| 07-09    | 34-826   | ボールベアリング*     | BEARING                   | 1    |
| 07-10    | 51-115   | 角ゴマ           | BLOCK                     | 1    |
| 07-11    | 51-136   | 円盤歯車 (下)      | GEAR                      | 1    |
| 07-12    | 58-007   | タイミングベルト      | TIMING BELT               | 1    |
| 07-13    | 60-8510  | ベアリングセット      | BEARING ASS'Y             | 1    |
| 07-14    | 60-8540  | ベアリングセット      | BEARING ASS'Y             | 1    |
| 07-15    | 60-8550  | ベアリングセット      | BEARING ASS'Y             | 1    |
| 07-16    | 91-994   | ベアリング*        | BEARING                   | 1    |
| 07-17    | 61-104   | 針受けエキセン       | ECCENTRIC                 | 1    |
| 07-18    | 61-507   | ルーバー板玉        | DRIVE BALL                | 1    |
| 07-19    | 63-504   | 針返連結ロット       | CONNECTING ROD            | 1    |
| 07-20    | 63-505   | ルーバー振りロット     | CONNECTING ROD            | 1    |
| 07-21    | 67-113   | 針受けレバー        | LEVER                     | 1    |
| 07-22    | 69-513   | 振れ止め          | GUIDE                     | 1    |
| 07-23    | 69-536   | バランサ          | BALANCER                  | 1    |
| 07-24    | 69-544   | ベアリングスリーブ     | BEARING SLEEVE            | 1    |
| 07-25    | 69-549   | スリーブ          | SLEEVE                    | 1    |
| 07-26    | 69-550   | スリーブ          | SLEEVE                    | 1    |
| 07-27    | 69-553   | V-プーリー        | V-PULLEY                  | 1    |
| 07-28    | 71-138   | 主軸            | MAIN SHAFT                | 1    |
| 07-29    | 71-183   | 針受け軸          | SHAFT                     | 1    |
| 07-30    | 71-184   | 針受けブラケット軸     | NEEDLE GUARD SHAFT        | 1    |
| 07-31    | 75-145   | カラー           | COLLAR                    | 1    |
| 07-32    | 87-092   | 六角穴付きボルト      | BOLT                      | 1    |
| 07-33    | 87-106   | ネジ            | SCREW                     | 6    |
| 07-34    | 87-113   | 六角穴付きボルト      | BOLT                      | 1    |
| 07-35    | 87-172   | ネジ            | SCREW                     | 9    |
| 07-36    | 87-181   | ネジ            | SCREW                     | 3    |
| 07-37    | 87-203   | 六角穴付きボルト      | BOLT                      | 1    |
| 07-38    | 87-213   | 六角穴付きボルト      | BOLT                      | 1    |
| 07-39    | 87-214   | 六角穴付きボルト      | BOLT                      | 4    |
| 07-40    | 87-242   | ネジ            | SCREW                     | 2    |
| 07-41    | 87-254   | ネジ            | SCREW                     | 1    |
| 07-42    | 87-259   | ネジ            | SCREW                     | 4    |
| 07-43    | 87-270   | ネジ            | SCREW                     | 2    |
| 07-44    | 91-413   | ニードルギア        | NEEDLE BEARING            | 1    |
| 07-45    | 91-890   | ベアリング*        | BEARING                   | 1    |
| 07-46    | 60-5021  | ルーバークランクヘッド   | LOOPER CRANK ASS'Y        | 1    |
| 07-47    | 110-1210 | 針受けブラケット後セット  | NEEDLE GUARD HOLDER ASS'Y | 1    |

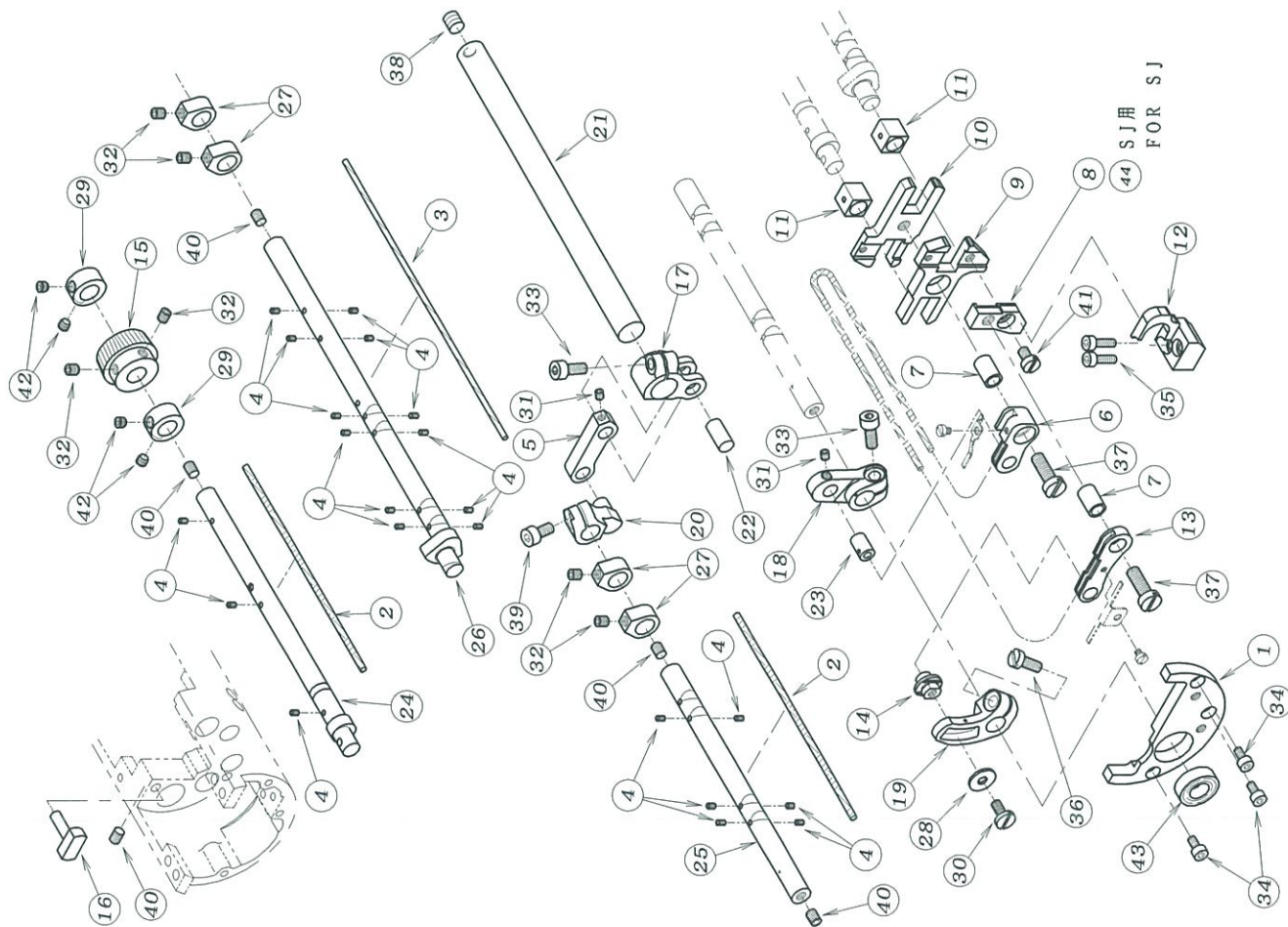


# 8. ルーパ-機構 LOOPER MECHANISM



| REF. NO. | PART NO. | 品 名         | DESCRIPTION            | Q'TY |
|----------|----------|-------------|------------------------|------|
| 08-01    | 19-105   | ルーパ-台       | LOOPER HOLDER          | 1    |
| 08-02    | 19-106   | カムフロア-取付台   | SLIDER HOLDER          | 1    |
| 08-03    | 19-107   | ルーパ-駆動元台    | LOOPER SHAFT GUIDE     | 1    |
| 08-04    | 19-507   | カムフロア-      | SLIDER                 | 1    |
| 08-05    | 19-509   | カムフロア-押しピン  | PIN                    | 1    |
| 08-06    | 23-197   | O-リング       | O-RING                 | 1    |
| 08-07    | 23-515   | 詰栓          | PLUG                   | 1    |
| 08-08    | 67-505   | ルーパ-振元レバ-   | LEVER                  | 1    |
| 08-09    | 71-124   | ルーパ-軸       | LOOPER SHAFT           | 1    |
| 08-10    | 71-532   | ルーパ-案内棒     | LOOPER SHAFT GUIDE BAR | 1    |
| 08-11    | 71-538   | 針選調節ピン      | PIN                    | 1    |
| 08-12    | 71-539   | 振元シャフト      | SHAFT                  | 1    |
| 08-13    | 75-467   | ワッシャ        | WASHER                 | 2    |
| 08-14    | 75-513   | スラストワッシャ    | WASHER                 | 1    |
| 08-15    | 75-514   | スペ-サー       | WASHER                 | 2    |
| 08-16    | 75-901   | ワッシャ        | WASHER                 | 3    |
| 08-17    | 81-080   | ルーパ-軸7'-ツシュ | BUSHING                | 1    |
| 08-18    | 81-520   | ブラジユ        | BUSHING                | 1    |
| 08-19    | 84-521   | ネジ          | SCREW                  | 1    |
| 08-20    | 84-589   | ネジ          | SCREW                  | 1    |
| 08-21    | 86-312   | ナット         | NUT                    | 1    |
| 08-22    | 87-011   | ネジ          | SCREW                  | 2    |
| 08-23    | 87-171   | 六角穴付きボルト    | BOLT                   | 1    |
| 08-24    | 87-172   | ネジ          | SCREW                  | 2    |
| 08-25    | 87-242   | ネジ          | SCREW                  | 1    |
| 08-26    | 92-233   | スラストベ-アリング  | BEARING                | 2    |
| 08-27    | 93-717   | スプリングピン     | SPRING PIN             | 1    |
| 08-28    | 19-570   | ルーパ-台       | LOOPER HOLDER          | 1    |

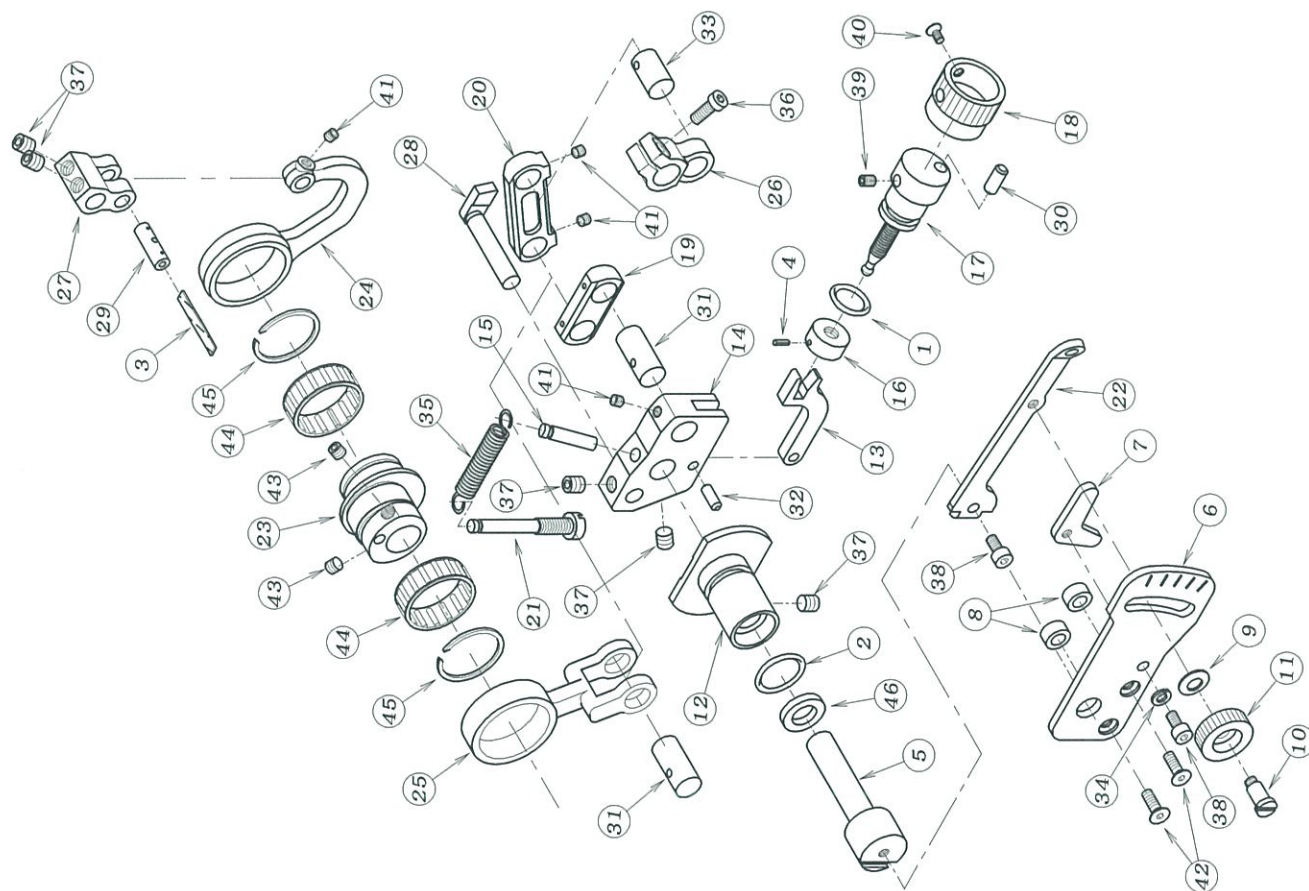
# 9. 送り機構 (1) FEED MECHANISM (1)



| REF. NO. | PART NO. | 品 名       | DESCRIPTION             | Q'TY |
|----------|----------|-----------|-------------------------|------|
| 09-01    | 21-104   | ベアリングプレート | BEARING PLATE           | 1    |
| 09-02    | 23-125   | フェルト      | FELT                    | 2    |
| 09-03    | 23-131   | フェルト      | FELT                    | 1    |
| 09-04    | 23-554   | フェルト      | FELT                    | 21   |
| 09-05    | 51-124   | リンク       | LINK                    | 1    |
| 09-06    | 51-125   | 主送りリンク    | MAIN FEED LINK          | 1    |
| 09-07    | 51-126   | リンクブッシュ   | LINK BUSH               | 2    |
| 09-08    | 51-127   | 補助板       | FEED BAR PLATE          | 1    |
| 09-09    | 51-128   | 差動送り台     | DIFFERENTIAL FEED BAR   | 1    |
| 09-10    | 51-129   | 主送り台      | MAIN FEED BAR           | 1    |
| 09-11    | 51-131   | 角ゴマ       | FEED LIFT BROCK         | 2    |
| 09-12    | 51-132   | 送り台スラスト   | FEED BAR GUIDE          | 1    |
| 09-13    | 51-133   | 差動リンク     | CONNECTING LINK         | 1    |
| 09-14    | 51-134   | 調節ピン      | PIN                     | 1    |
| 09-15    | 51-135   | 円歯歯車 (上)  | GEAR                    | 1    |
| 09-16    | 51-137   | 送り台ガイド    | GUIDE BRACKET           | 1    |
| 09-17    | 67-109   | 送り前後駆動レバー | FEED LEVER              | 1    |
| 09-18    | 67-110   | 主送りレバー    | FEED LEVER              | 1    |
| 09-19    | 67-111   | 差動送りレバー   | DIFFERENTIAL FEED LEVER | 1    |
| 09-20    | 67-112   | 送り前後レバー   | LEVER                   | 1    |
| 09-21    | 71-133   | 送り前後軸     | FEED SHAFT              | 1    |
| 09-22    | 71-134   | リンクピン     | PIN                     | 1    |
| 09-23    | 71-135   | リンクピン     | PIN                     | 1    |
| 09-24    | 71-140   | 送り上下軸 (後) | SHAFT                   | 1    |
| 09-25    | 71-141   | 送り前後軸     | FEED DRIVE SHAFT        | 1    |
| 09-26    | 71-143   | 送り上下軸 (前) | SHAFT                   | 1    |
| 09-27    | 75-143   | カラー       | COLLAR                  | 4    |
| 09-28    | 75-385   | ワッシャー     | WASHER                  | 1    |
| 09-29    | 75-561   | カラー       | COLLAR                  | 2    |
| 09-30    | 87-610   | ネジ        | SCREW                   | 1    |
| 09-31    | 87-104   | ネジ        | SCREW                   | 2    |
| 09-32    | 87-106   | ネジ        | SCREW                   | 6    |
| 09-33    | 87-113   | 六角穴付きボルト  | BOLT                    | 2    |
| 09-34    | 87-123   | 六角穴付きボルト  | BOLT                    | 3    |
| 09-35    | 87-133   | 六角穴付きボルト  | BOLT                    | 2    |
| 09-36    | 87-145   | ネジ        | SCREW                   | 1    |
| 09-37    | 87-163   | ネジ        | SCREW                   | 2    |
| 09-38    | 87-172   | ネジ        | SCREW                   | 1    |
| 09-39    | 87-177   | 六角穴付きボルト  | BOLT                    | 1    |
| 09-40    | 87-181   | ネジ        | SCREW                   | 5    |
| 09-41    | 87-284   | ネジ        | SCREW                   | 1    |
| 09-42    | 87-322   | ネジ        | SCREW                   | 4    |
| 09-43    | 91-107   | ベアリング     | BEARING                 | 1    |
| 09-44    | 51-501   | 補助板       | FEED BAR PLATE          | 1    |

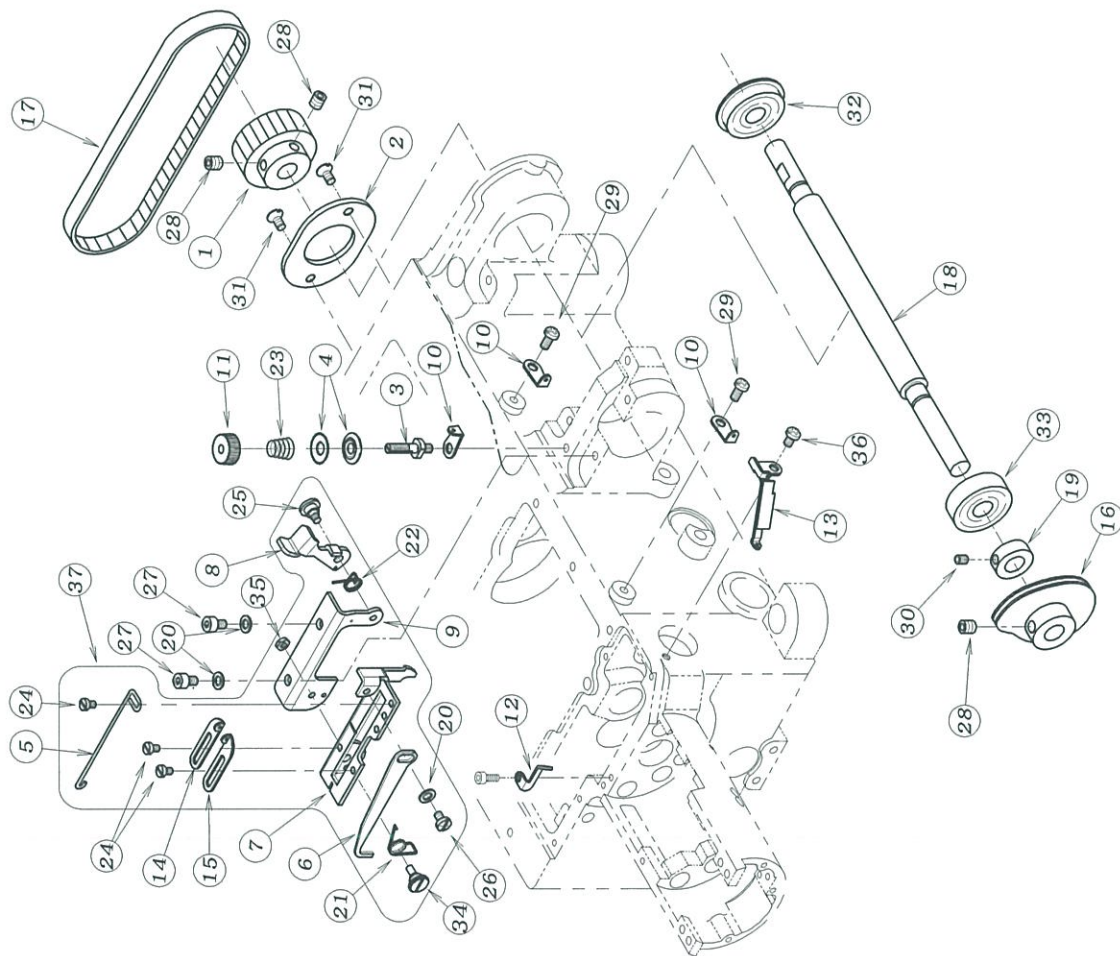


# 10. 送り機構 (2) FEED MECHANISM (2)



| REF. NO. | PART NO. | 品 名        | DESCRIPTION                     | Q'TY |
|----------|----------|------------|---------------------------------|------|
| 10-01    | 23-192   | 0-リング      | O-RING                          | 1    |
| 10-02    | 23-283   | 0-リング      | O-RING                          | 1    |
| 10-03    | 23-341   | フェルト       | FELT                            | 1    |
| 10-04    | 32-281   | スプリングピン    | SPRING PIN                      | 1    |
| 10-05    | 51-116   | 送り調節レバー    | CONTROL LEVER SHAFT             | 1    |
| 10-06    | 51-801   | 目盛板        | FEED GRADUATIONS                | 1    |
| 10-07    | 51-804   | ストップ       | STOPPER                         | 1    |
| 10-08    | 51-805   | スベースカラー    | COLLAR                          | 2    |
| 10-09    | 51-806   | 皿ネ         | SPRING                          | 1    |
| 10-10    | 51-807   | 段ネジ        | SCREW                           | 1    |
| 10-11    | 51-808   | ナット        | NUT                             | 1    |
| 10-12    | 51-809   | ブッシュ       | BUSHING                         | 1    |
| 10-13    | 51-810   | リンク        | LINK                            | 1    |
| 10-14    | 51-811   | 調節土台       | BRACKET                         | 1    |
| 10-15    | 51-812   | 引張りハネ取付ピン  | PIN                             | 1    |
| 10-16    | 51-813   | ナット        | NUT                             | 1    |
| 10-17    | 51-814   | 調節ネジ       | ADJUSTING SCREW                 | 1    |
| 10-18    | 51-815   | 調節ノブ       | ADJUSTING KNOB                  | 1    |
| 10-19    | 51-816   | リンク        | LINK                            | 1    |
| 10-20    | 51-817   | リンク        | LINK                            | 1    |
| 10-21    | 51-818   | 引張りハネ取付ネジ  | STUD BOLT                       | 1    |
| 10-22    | 51-865   | 調節レバー      | DIFFERENTIAL FEED CONTROL LEVER | 1    |
| 10-23    | 61-105   | 送り調節ノブ     | FEED ECCENTRIC                  | 1    |
| 10-24    | 63-107   | 送り上下ロッド    | CONNECTING ROD                  | 1    |
| 10-25    | 63-503   | 連結ロッド      | CONNECTING ROD                  | 1    |
| 10-26    | 67-115   | 差動送りレバー    | LEVER                           | 1    |
| 10-27    | 67-116   | 送り上下レバー    | LEVER                           | 1    |
| 10-28    | 69-515   | ロッドガイド     | CONNECTING ROD GUIDE            | 1    |
| 10-29    | 71-142   | リンクピン      | LINK PIN                        | 1    |
| 10-30    | 71-208   | リンクピン      | PIN                             | 1    |
| 10-31    | 71-518   | リンクピン      | LINK PIN                        | 2    |
| 10-32    | 71-520   | ピン         | PIN                             | 1    |
| 10-33    | 71-525   | リンクピン      | LINK PIN                        | 1    |
| 10-34    | 75-410   | スプリングワッシャー | SPRING WASHER                   | 1    |
| 10-35    | 79-527   | 引張りハネ      | SPRING                          | 1    |
| 10-36    | 84-591   | 六角穴付きボルト   | BOLT                            | 1    |
| 10-37    | 87-172   | ネジ         | SCREW                           | 5    |
| 10-38    | 87-177   | 六角穴付きボルト   | BOLT                            | 2    |
| 10-39    | 87-181   | ネジ         | SCREW                           | 1    |
| 10-40    | 87-212   | ネジ         | SCREW                           | 1    |
| 10-41    | 87-233   | ネジ         | SCREW                           | 4    |
| 10-42    | 87-265   | ネジ         | SCREW                           | 2    |
| 10-43    | 87-274   | ネジ         | SCREW                           | 2    |
| 10-44    | 91-412   | ニードルベアリング  | NEEDLE BEARING                  | 2    |
| 10-45    | 93-402   | ストップリング    | C-RING                          | 2    |
| 10-46    | 94-222   | オイルシール     | OIL SEAL                        | 1    |

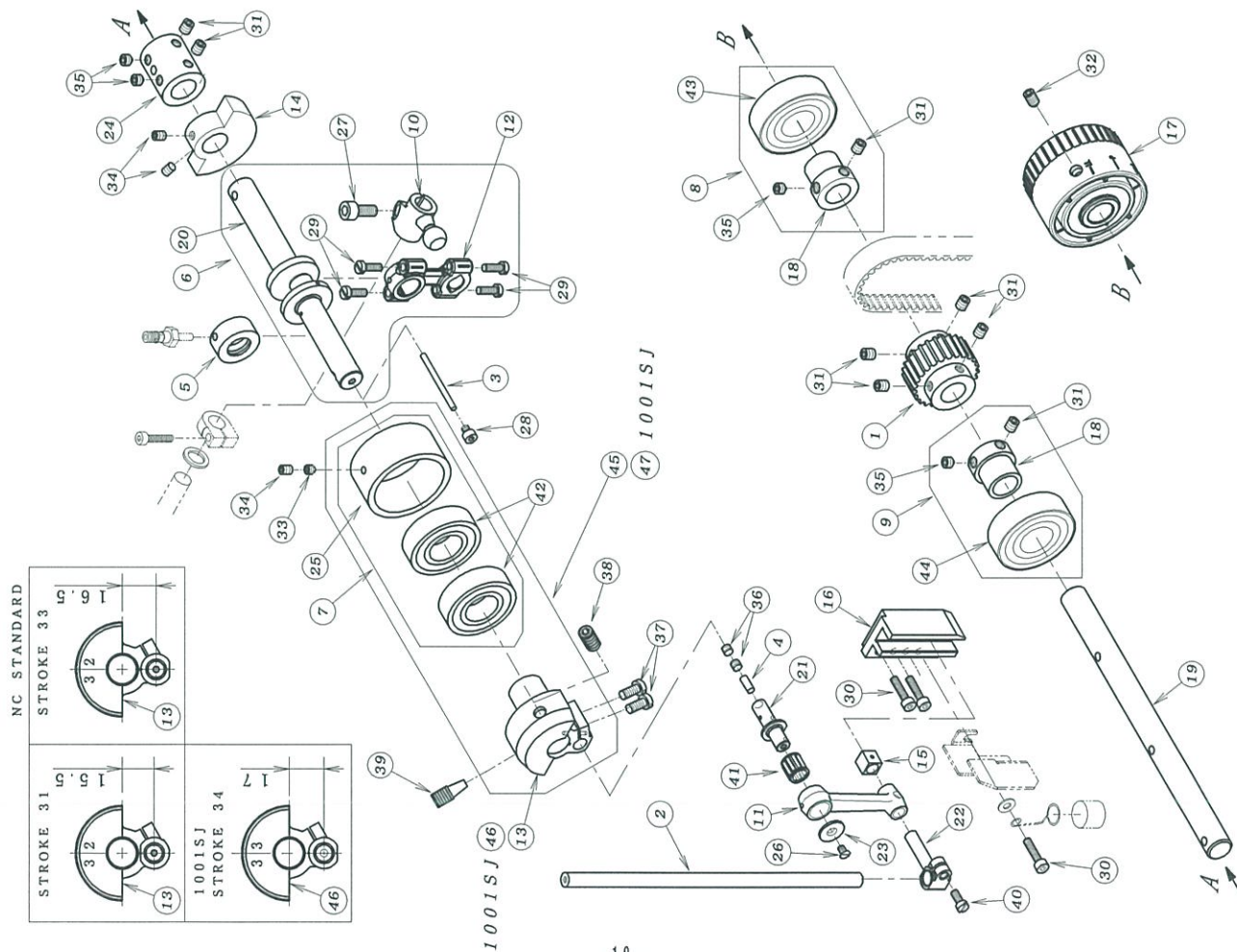
# 11. 下糸捌き機構 LOOPER THREAD MECHANISM



| REF. NO. | PART NO. | 品 名          | DESCRIPTION                | Q'TY |
|----------|----------|--------------|----------------------------|------|
| 11-01    | 06-447   | タイミングプーリ (歯) | TIMING PULLEY              | 1    |
| 11-02    | 25-105   | ベアリング止め板     | SET PLATE                  | 1    |
| 11-03    | 41-102   | 調子芯棒         | SCREW STUD                 | 1    |
| 11-04    | 41-155   | チャンボン皿       | DISC                       | 2    |
| 11-05    | 43-338   | 下糸捌きピン       | PIN                        | 1    |
| 11-06    | 43-344   | 下糸捌き (上)     | THREAD GUIDE               | 1    |
| 11-07    | 43-348   | 下糸捌き板        | GUIDE PLATE                | 1    |
| 11-08    | 43-349   | 下糸捌き開閉レバ     | LEVER                      | 1    |
| 11-09    | 43-350   | 下糸捌き板 B      | GUIDE PLATE B              | 1    |
| 11-10    | 43-519   | 糸道           | THREAD EYELET              | 3    |
| 11-11    | 43-568   | 小チャンボンナット    | NUT                        | 1    |
| 11-12    | 47-102   | カーバ糸道        | THREAD EYELET              | 1    |
| 11-13    | 47-118   | 糸道           | THREAD EYELET              | 1    |
| 11-14    | 47-131   | 糸道 (左)       | THREAD EYELET              | 1    |
| 11-15    | 47-132   | 糸道 (右)       | THREAD EYELET              | 1    |
| 11-16    | 49-504   | ハマダリ         | LOOPER THREAD TAKE-UP      | 1    |
| 11-17    | 58-406   | タイミングベルト     | TIMING BELT                | 1    |
| 11-18    | 71-182   | ハマダリ輪        | SHAFT                      | 1    |
| 11-19    | 75-130   | カラー          | COLLAR                     | 1    |
| 11-20    | 75-468   | ワッシャ         | WASHER                     | 3    |
| 11-21    | 79-108   | 膝ね上げバネ       | KICK SPRING                | 1    |
| 11-22    | 79-109   | 巻きバネ         | SPRING                     | 1    |
| 11-23    | 79-534   | ハネ           | SPRING                     | 1    |
| 11-24    | 84-161   | ネジ           | SCREW                      | 3    |
| 11-25    | 84-174   | ネジ           | SCREW                      | 1    |
| 11-26    | 84-361   | ネジ           | SCREW                      | 1    |
| 11-27    | 87-092   | 六角穴付きボルト     | BOLT                       | 2    |
| 11-28    | 87-172   | ネジ           | SCREW                      | 3    |
| 11-29    | 87-482   | プラマイナベ小ねじ    | SCREW                      | 2    |
| 11-30    | 87-181   | ネジ           | SCREW                      | 1    |
| 11-31    | 87-249   | ネジ           | SCREW                      | 2    |
| 11-32    | 91-108   | ボールベアリング     | BEARING                    | 1    |
| 11-33    | 91-109   | ボールベアリング     | BEARING                    | 1    |
| 11-34    | 84-178   | ネジ           | SCREW                      | 1    |
| 11-35    | 86-102   | ナット          | NUT                        | 1    |
| 11-36    | 87-481   | プラマイナベ小ねじ    | SCREW                      | 1    |
| 11-37    | 40-3880  | 下糸捌きセット      | LOOPER THREAD EYELET ASS'Y | 1    |

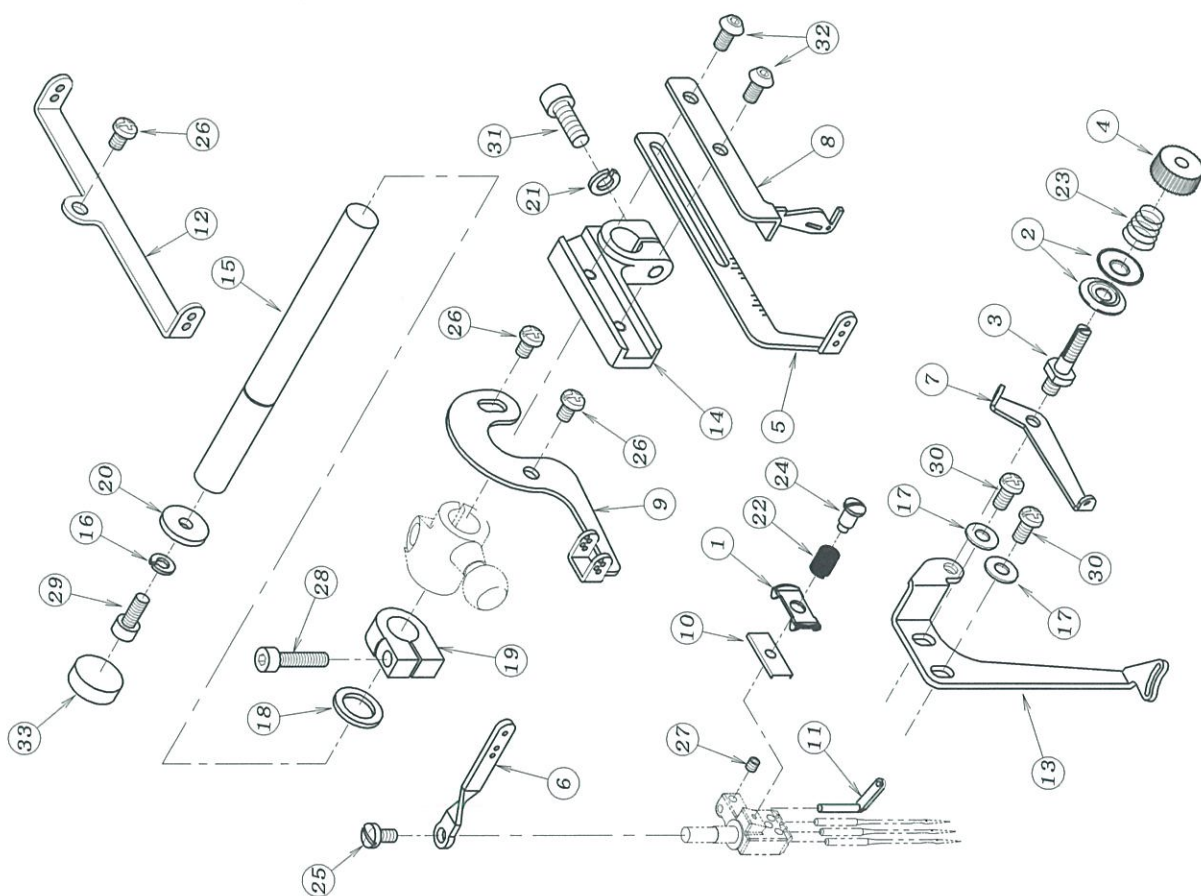


# 12. 針棒上軸機構 NEEDLE BAR MECHANISM



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

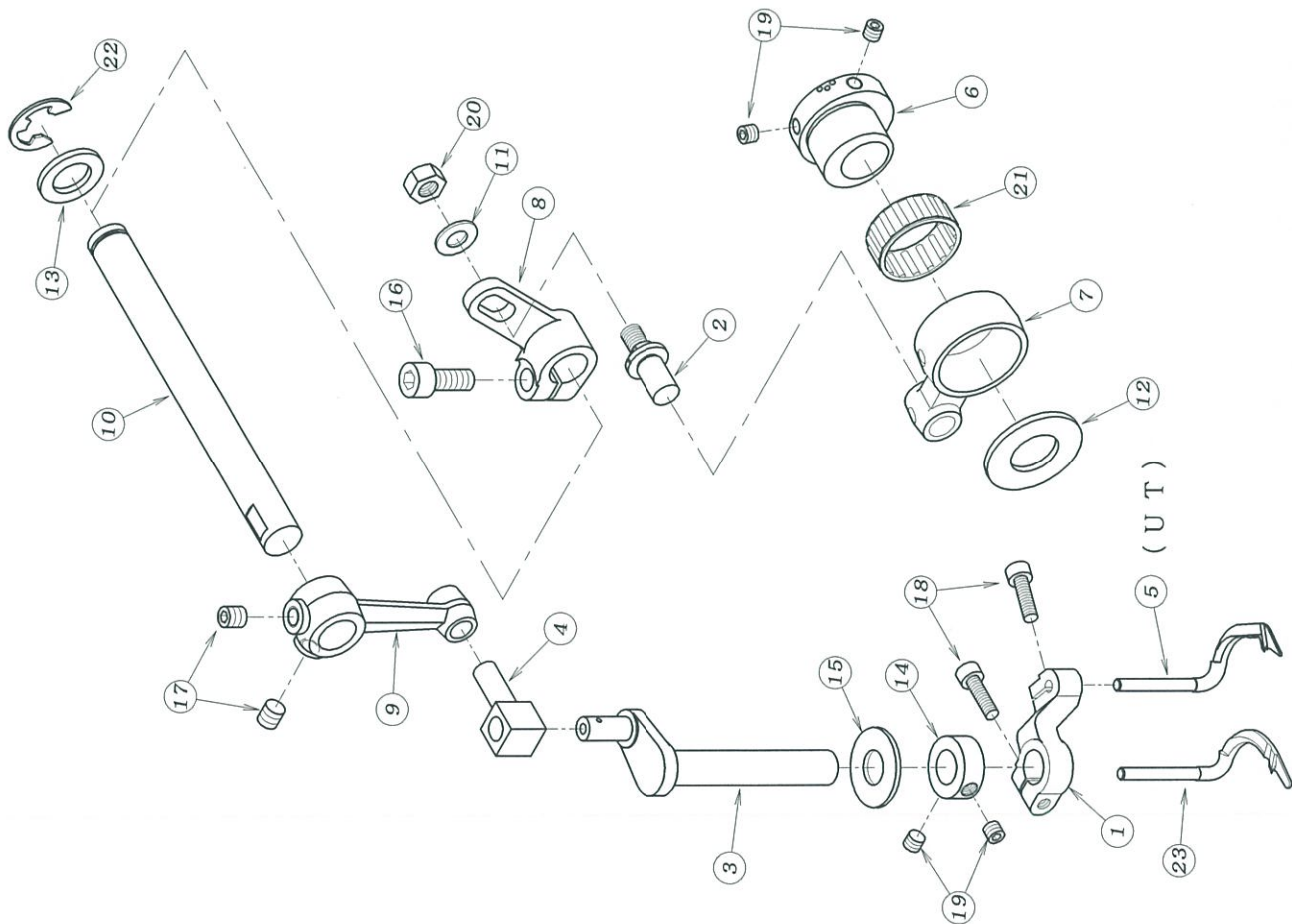
# 13. 上糸捌き機構 NEEDLE THREAD MECHANISM



| REF. NO. | PART NO. | 品 名          | DESCRIPTION           | Q'TY |
|----------|----------|--------------|-----------------------|------|
| 13-01    | 41-021   | カム糸道         | THREAD NIPPER         | 1    |
| 13-02    | 41-155   | チャンボ°ン皿      | DISC                  | 2    |
| 13-03    | 41-504   | 調子棒          | TENSION POST          | 1    |
| 13-04    | 43-568   | 小チャンボ°ンナット   | NUT                   | 1    |
| 13-05    | 45-032   | 針糸サバキ        | NEEDLE THREAD TAKE-UP | 1    |
| 13-06    | 45-035   | 針棒糸道         | THREAD EYELET         | 1    |
| 13-07    | 45-036   | 糸道           | THREAD EYELET         | 1    |
| 13-08    | 45-502   | 飾り糸捌き        | THREAD TAKE-UP        | 1    |
| 13-09    | 45-507   | 飾り糸捌き糸道      | THREAD EYELET         | 1    |
| 13-10    | 45-508   | 針板小調子板       | PLATE                 | 1    |
| 13-11    | 45-514   | 飾り糸道         | THREAD EYELET         | 1    |
| 13-12    | 45-515   | 飾り糸道         | THREAD EYELET         | 1    |
| 13-13    | 45-540   | 飾り糸案内        | BRACKET               | 1    |
| 13-14    | 67-502   | 針糸捌き取付台      | LEVER                 | 1    |
| 13-15    | 71-514   | 針糸捌きシャフト     | SHAFT                 | 1    |
| 13-16    | 75-410   | スワ°リング° ワッシャ | SPRING WASHER         | 1    |
| 13-17    | 75-455   | ワッシャ         | WASHER                | 2    |
| 13-18    | 75-504   | ワッシャ         | WASHER                | 1    |
| 13-19    | 75-505   | カラー          | COLLAR                | 1    |
| 13-20    | 75-508   | ワッシャ         | WASHER                | 1    |
| 13-21    | 75-526   | スワ°リング° ワッシャ | SPRING WASHER         | 1    |
| 13-22    | 79-025   | カム糸道パネ       | SPRING                | 1    |
| 13-23    | 79-534   | パ°ネ          | SPRING                | 1    |
| 13-24    | 84-021   | パ°ネカ°イト°ネジ°  | SCREW                 | 1    |
| 13-25    | 84-374   | ネジ°          | SCREW                 | 1    |
| 13-26    | 87-481   | ブラマイナベ小ねじ    | SCREW                 | 3    |
| 13-27    | 87-104   | ネジ°          | SCREW                 | 1    |
| 13-28    | 87-112   | 六角穴付きボルト     | BOLT                  | 1    |
| 13-29    | 87-113   | 六角穴付きボルト     | BOLT                  | 1    |
| 13-30    | 87-482   | ブラマイナベ小ねじ    | SCREW                 | 2    |
| 13-31    | 87-224   | 六角穴付きボルト     | BOLT                  | 1    |
| 13-32    | 87-272   | ネジ°          | SCREW                 | 2    |
| 13-33    | 94-504   | シールキャップ°     | PLUG                  | 1    |

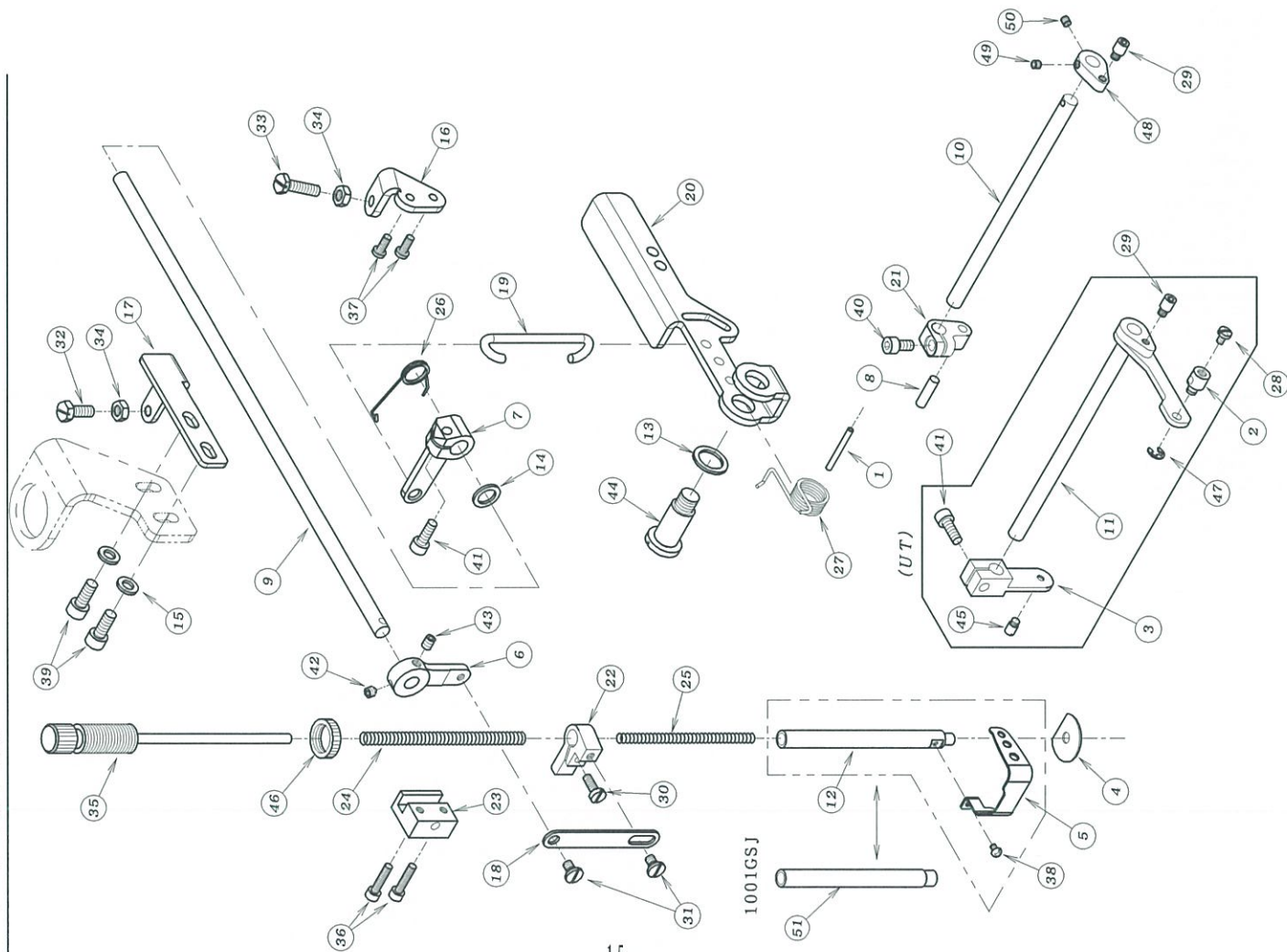


# 14. 上飾り機構 SPREADER DRIVE MECHANISM



| REF.NO. | PART NO. | 品 名            | DESCRIPTION       | Q'TY |
|---------|----------|----------------|-------------------|------|
| 14-01   | 04-501   | スプ レッタ -ホルダ -  | HOLDER            | 1    |
| 14-02   | 04-502   | 調節レバ - ピン      | PIN               | 1    |
| 14-03   | 04-507   | 飾りル - パ - 棒    | CRANK             | 1    |
| 14-04   | 04-508   | 連結ピン           | CONNECTING HOLDER | 1    |
| 14-05   | 19-505   | 上飾りル - パ -     | SPREADER          | 1    |
| 14-06   | 61-527   | 上飾りエキセン玉       | ECCENTRIC         | 1    |
| 14-07   | 63-500   | 飾り振りロッド        | CONNECTING ROD    | 1    |
| 14-08   | 67-510   | 飾り振りレバ -       | LEVER             | 1    |
| 14-09   | 67-511   | ル - パ - 振りレバ - | LEVER             | 1    |
| 14-10   | 71-513   | 飾り原動軸          | SHAFT             | 1    |
| 14-11   | 75-452   | ワッシャ           | WASHER            | 1    |
| 14-12   | 75-502   | ワッシャ           | WASHER            | 1    |
| 14-13   | 75-509   | ワッシャ           | WASHER            | 1    |
| 14-14   | 75-537   | カラー            | COLLAR            | 1    |
| 14-15   | 75-549   | ワッシャ           | WASHER            | 1    |
| 14-16   | 87-171   | 六角穴付きボルト       | BOLT              | 1    |
| 14-17   | 87-172   | ネジ             | SCREW             | 2    |
| 14-18   | 87-214   | 六角穴付きボルト       | BOLT              | 2    |
| 14-19   | 87-274   | ネジ             | SCREW             | 4    |
| 14-20   | 88-166   | ナット            | NUT               | 1    |
| 14-21   | 91-416   | ニードルゲ - シ      | NEEDLE BEARING    | 1    |
| 14-22   | 93-202   | E-リング          | E-RING            | 1    |
| 14-23   | 19-751   | 上飾りル - パ -     | SPREADER          | 1    |

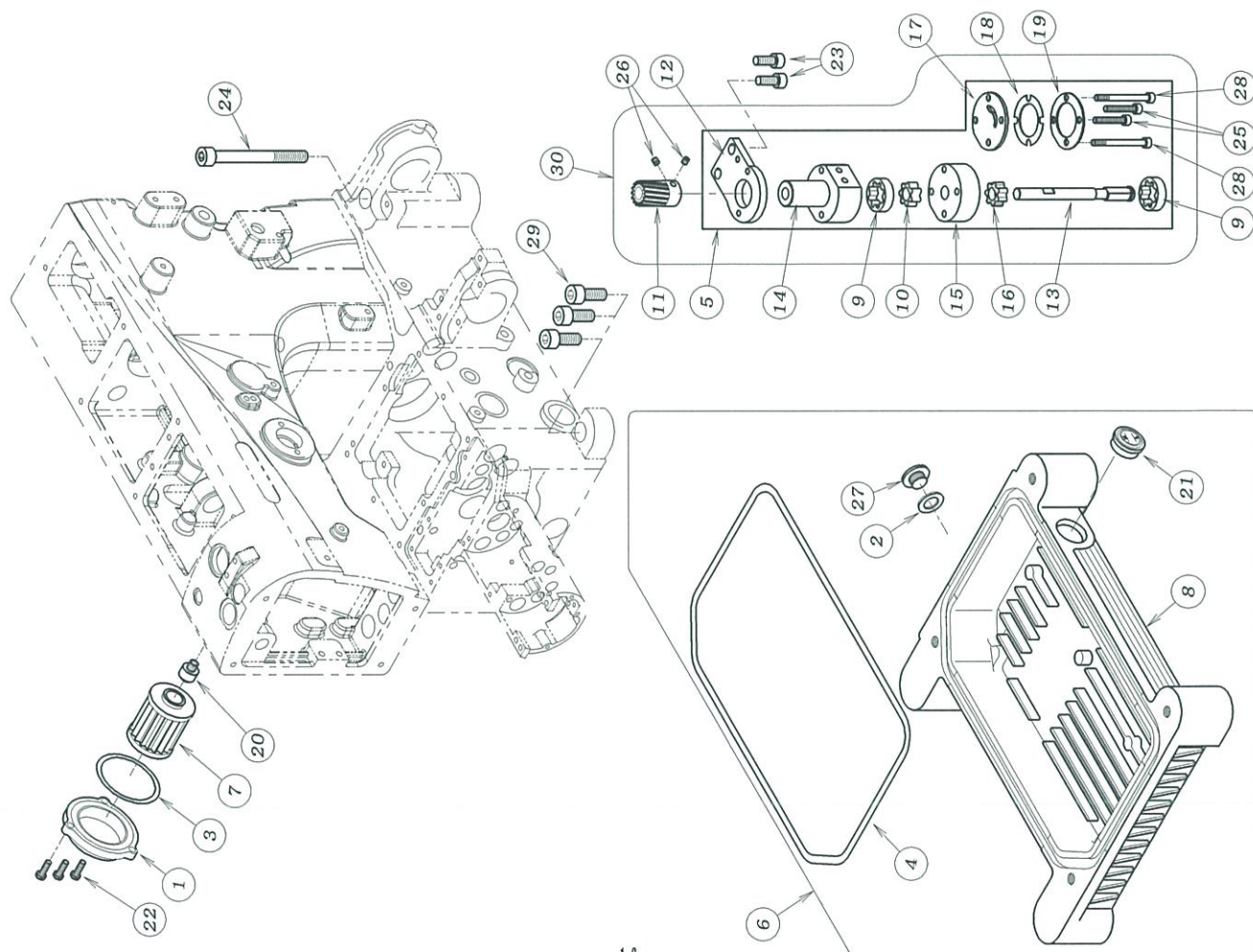
# 15. 押え揚げ機構 PRESSER FOOT MECHANISM



| REF. NO. | PART NO. | 品 名            | DESCRIPTION      | QTY |
|----------|----------|----------------|------------------|-----|
| 15-01    | 05-404   | スプリングピン        | SPRING PIN       | 1   |
| 15-02    | 05-853   | 糸纒め連結片         | HOLDER           | 1   |
| 15-03    | 05-958   | クランクレバ -       | LEVER            | 1   |
| 15-04    | 23-018   | 押え棒油止シール       | SEAL             | 1   |
| 15-05    | 27-232   | フィンガー - ガート    | FINGER GUARD     | 1   |
| 15-06    | 67-036   | レバ -           | LEVER            | 1   |
| 15-07    | 67-037   | レバ -           | LEVER            | 1   |
| 15-08    | 71-203   | 平行ピン           | PIN              | 1   |
| 15-09    | 71-278   | 連動シャフト         | SHAFT            | 1   |
| 15-10    | 71-270   | 糸纒め軸           | SHAFT            | 1   |
| 15-11    | 71-280   | レバ - シャフト (UT) | SHAFT            | 1   |
| 15-12    | 71-515   | 押え棒            | PRESSER FOOT BAR | 1   |
| 15-13    | 75-332   | ワッシャ           | WASHER           | 1   |
| 15-14    | 75-504   | ワッシャ           | WASHER           | 1   |
| 15-15    | 75-552   | ワッシャ           | WASHER           | 2   |
| 15-16    | 77-030   | ブラケット          | BRACKET          | 1   |
| 15-17    | 77-033   | 押え棒かしストッパー     | STOPPER          | 1   |
| 15-18    | 77-051   | 連結プレート         | PLATE            | 1   |
| 15-19    | 77-052   | リンク            | LINK             | 1   |
| 15-20    | 77-053   | 押え棒レバ -        | LEVER            | 1   |
| 15-21    | 77-504   | 押え棒クランク        | CRANK            | 1   |
| 15-22    | 77-510   | 押え棒軸           | CLAMP            | 1   |
| 15-23    | 77-511   | 押え棒ガイド         | GUIDE            | 1   |
| 15-24    | 79-022   | 押え棒ハネ (上)      | SPRING           | 1   |
| 15-25    | 79-023   | 押え棒ハネ (下)      | SPRING           | 1   |
| 15-26    | 79-024   | 巻きハネ           | SPRING           | 1   |
| 15-27    | 79-423   | 巻きハネ           | SPRING           | 1   |
| 15-28    | 84-361   | ネジ             | SCREW            | 1   |
| 15-29    | 84-561   | ネジ             | SCREW            | 1   |
| 15-30    | 84-566   | ネジ             | SCREW            | 1   |
| 15-31    | 84-581   | 段ネジ            | SCREW            | 2   |
| 15-32    | 84-818   | ネジ             | SCREW            | 1   |
| 15-33    | 84-813   | ネジ             | SCREW            | 1   |
| 15-34    | 86-411   | ナット            | NUT              | 2   |
| 15-35    | 87-001   | 押え棒軸ネジ         | SCREW            | 1   |
| 15-36    | 87-112   | 六角穴付きボルト       | BOLT             | 2   |
| 15-37    | 87-483   | プラマイナベ小ねじ      | SCREW            | 2   |
| 15-38    | 87-476   | プラマイナベ小ねじ      | SCREW            | 1   |
| 15-39    | 87-171   | 六角穴付きボルト       | BOLT             | 2   |
| 15-40    | 87-213   | 六角穴付きボルト       | BOLT             | 1   |
| 15-41    | 87-224   | 六角穴付きボルト       | BOLT             | 1   |
| 15-42    | 87-253   | ネジ             | SCREW            | 2   |
| 15-43    | 87-254   | ネジ             | SCREW            | 1   |
| 15-44    | 87-404   | 段付ネジ           | SCREW            | 1   |
| 15-45    | 87-423   | 段ネジ            | SCREW            | 1   |
| 15-46    | 88-003   | 筒ネジ ナット        | NUT              | 1   |
| 15-47    | 93-205   | Eリング           | E-RING           | 1   |
| 15-48    | 77-270   | 糸纒めプレート        | PLATE            | 1   |
| 15-49    | 87-233   | ネジ             | SCREW            | 1   |
| 15-50    | 87-286   | ネジ             | SCREW            | 1   |
| 15-51    | 71-038   | 押え棒            | PRESSER FOOT BAR | 1   |



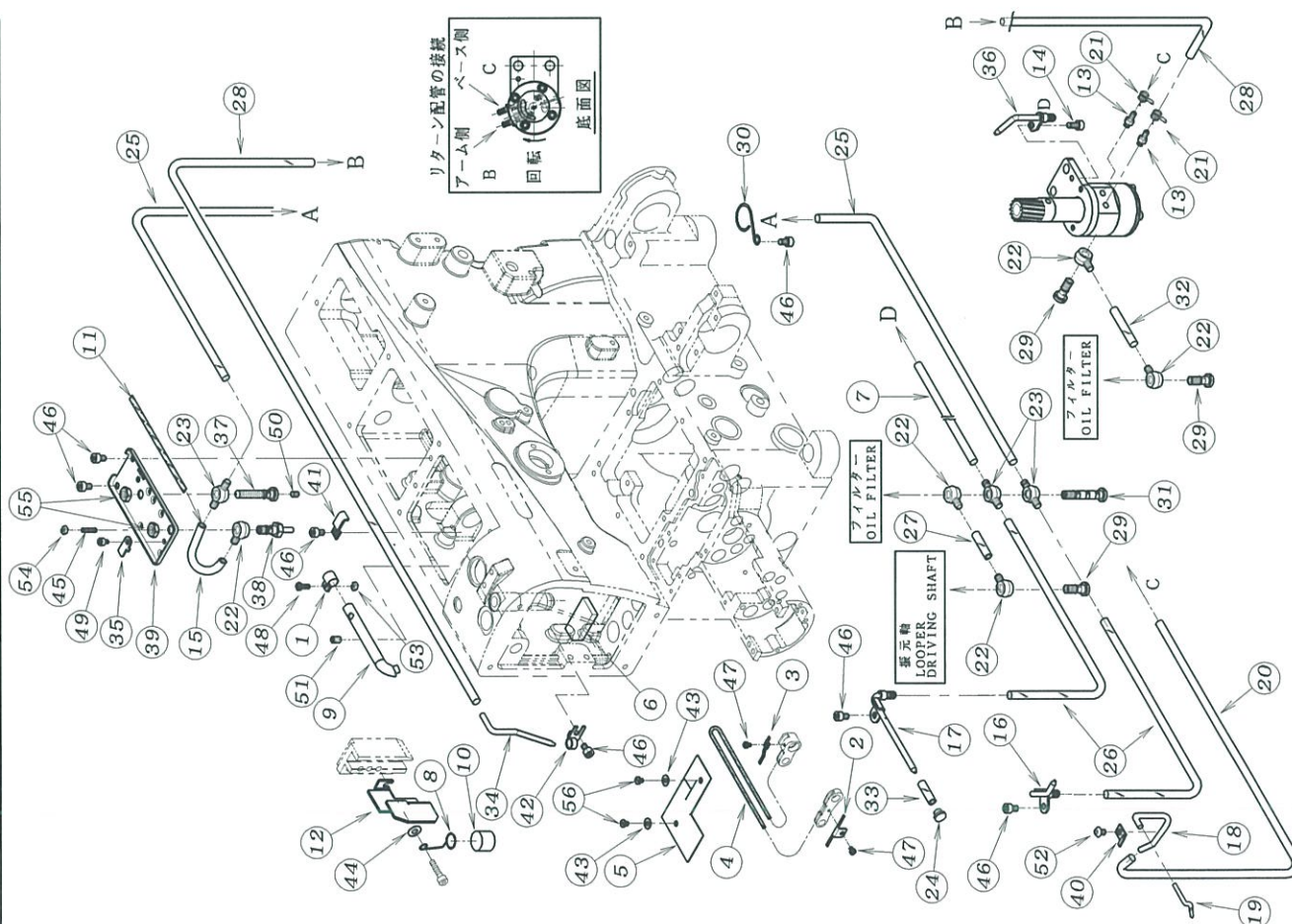
# 16. 給油 (1) LUBRICATION MECHANISM (1)



| REF. NO. | PART NO. | 品 名           | DESCRIPTION     | Q'TY |
|----------|----------|---------------|-----------------|------|
| 16-01    | 21-632W  | オイルフィルターキャップ  | OIL FILTER CAP  | 1    |
| 16-02    | 23-304   | シール           | SEAL            | 1    |
| 16-03    | 23-506   | O-リング         | O-RING          | 1    |
| 16-04    | 23-508   | O-リング         | O-RING          | 1    |
| 16-05    | 30-0019  | ポンプ セット       | PUMP ASS'Y      | 1    |
| 16-06    | 30-5070  | オイルタンクセット     | OIL TANK ASS'Y  | 1    |
| 16-07    | 31-222   | フィルター         | OIL FILTER      | 1    |
| 16-08    | 31-507   | オイルタンク        | OIL RESERVOIR   | 1    |
| 16-09    | 31-530   | アウトローター       | OUTER ROTER     | 2    |
| 16-10    | 31-531   | インナーローター      | INNER ROTER     | 1    |
| 16-11    | 31-539   | ポンプギア         | PUMP GEAR       | 1    |
| 16-12    | 31-549   | ポンプ 取付板       | PLATE           | 1    |
| 16-13    | 31-542   | ポンプ 軸         | PUMP SHAFT      | 1    |
| 16-14    | 31-543   | ポンプ ハウジング (上) | PUMP HOUSING    | 1    |
| 16-15    | 31-544   | ポンプ ハウジング (下) | PUMP HOUSING    | 1    |
| 16-16    | 31-545   | インナーローター      | INNER ROTER     | 1    |
| 16-17    | 31-546   | ポンプ 裏板        | PLATE           | 1    |
| 16-18    | 31-547   | ポンプ メッシュ      | PUMP MESH       | 1    |
| 16-19    | 31-548   | ポンプ メッシュ止め板   | PLATE           | 1    |
| 16-20    | 35-509   | 継手            | JOINT           | 1    |
| 16-21    | 39-504   | オイルゲージ        | OIL SIGHT GAUGE | 1    |
| 16-22    | 87-484   | ブラマイナベ小ねじ     | SCREW           | 3    |
| 16-23    | 87-171   | 六角穴付きボルト      | BOLT            | 2    |
| 16-24    | 87-176   | 六角穴付きボルト      | BOLT            | 1    |
| 16-25    | 87-285   | 六角穴付きボルト      | BOLT            | 2    |
| 16-26    | 87-286   | ネジ            | SCREW           | 2    |
| 16-27    | 87-311   | フタネジ          | SCREW           | 1    |
| 16-28    | 87-391   | 六角穴付きボルト      | BOLT            | 2    |
| 16-29    | 87-663   | 六角穴付きボルト      | BOLT            | 2    |
| 16-30    | 30-0020  | ポンプ セット       | PUMP ASS'Y      | 1    |



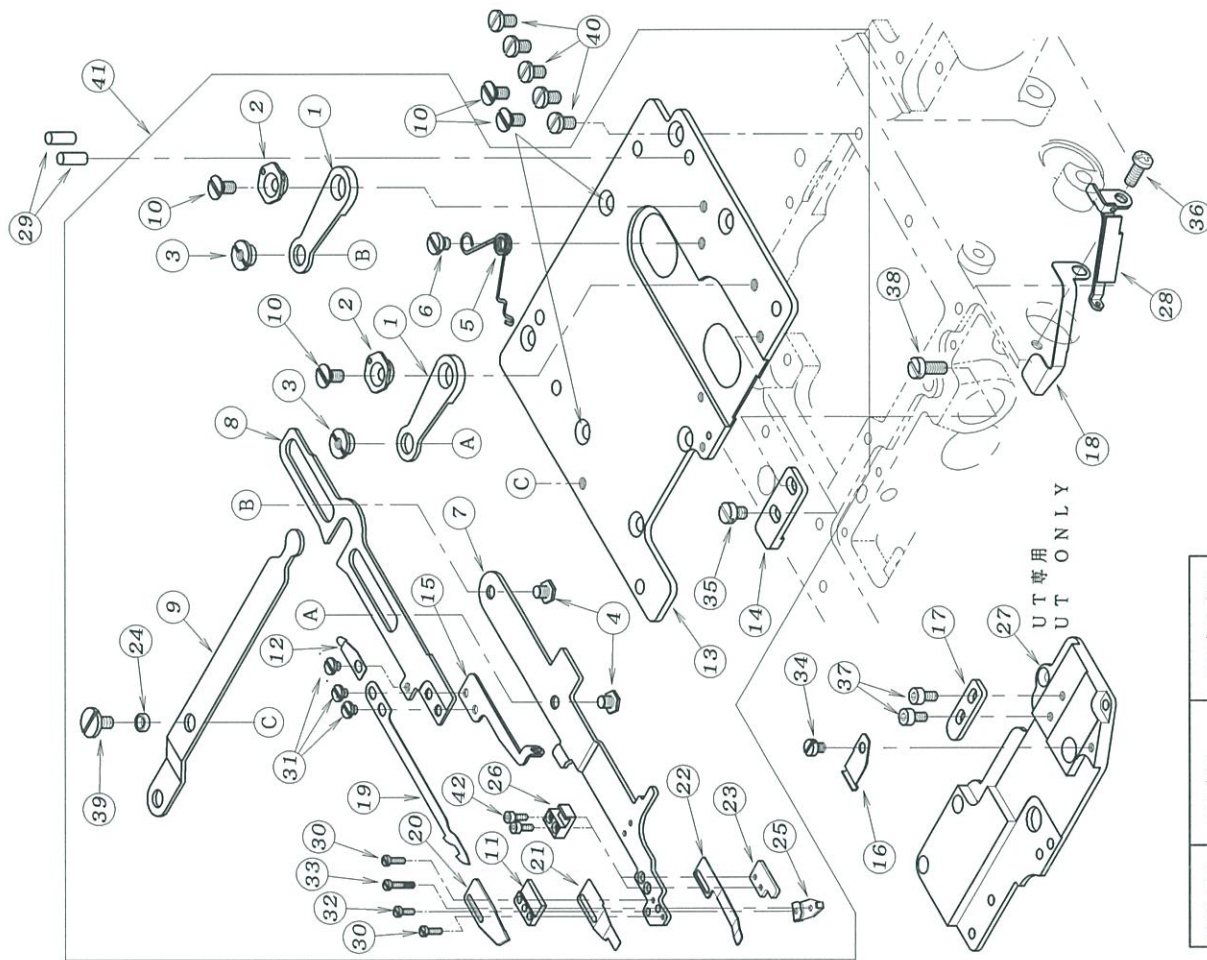
# 17. 給油 (2) LUBRICATION MECHANISM (2)



| REF. NO. | PART NO. | 品 名                    | DESCRIPTION          | Q'TY |
|----------|----------|------------------------|----------------------|------|
| 17-01    | 07-008   | 調節バンド                  | BAND                 | 1    |
| 17-02    | 21-088   | 取付金具                   | FELT CLAMP           | 1    |
| 17-03    | 21-099   | 取付金具                   | FELT CLAMP           | 1    |
| 17-04    | 23-126   | フェルト                   | FELT                 | 1    |
| 17-05    | 23-129   | フェルト                   | FELT                 | 1    |
| 17-06    | 23-386   | フェルト                   | FELT                 | 1    |
| 17-07    | 35-562   | ビニールチューブ 300L          | TUBE                 | 1    |
| 17-08    | 23-558   | 給油サポ-ト                 | SUPPORT              | 1    |
| 17-09    | 23-560   | 給油ハ-イプ                 | PIPE                 | 1    |
| 17-10    | 23-562   | スポンジ                   | SPONGE               | 1    |
| 17-11    | 23-574   | フェルト                   | FELT                 | 1    |
| 17-12    | 27-301   | オイルフエンス                | OIL COVER            | 1    |
| 17-13    | 31-314   | 継手                     | JOINT                | 2    |
| 17-14    | 87-177   | 六角穴付きボルト               | BOLT                 | 1    |
| 17-15    | 35-005   | ビ-ニールチューブ 80L          | TUBE                 | 1    |
| 17-16    | 35-108   | 配管                     | OIL DISTRIBUTOR      | 1    |
| 17-17    | 35-109   | 給油配管                   | OIL DISTRIBUTOR      | 1    |
| 17-18    | 35-110   | リターンパイプ (1)            | PIPE                 | 1    |
| 17-19    | 35-113   | リターンパイプ (2)            | RETURN PIPE (2)      | 1    |
| 17-20    | 35-313   | ビ-ニールチューブ (φ6Xφ3X350L) | TUBE                 | 1    |
| 17-21    | 35-413   | 止め金具                   | CLAMP                | 2    |
| 17-22    | 35-505   | 片口継手                   | JOINT                | 5    |
| 17-23    | 35-506   | 両口管継手                  | JOINT                | 3    |
| 17-24    | 35-510   | 詰栓                     | PLUG                 | 1    |
| 17-25    | 35-517   | ビ-ニールチューブ 540L         | TUBE                 | 1    |
| 17-26    | 35-519   | ビ-ニールチューブ              | TUBE                 | 2    |
| 17-27    | 35-520   | ビ-ニールチューブ              | TUBE                 | 1    |
| 17-28    | 35-521   | ビ-ニールチューブ              | TUBE                 | 1    |
| 17-29    | 35-528   | 管継手ボ-ルト                | JOINT SCREW          | 1    |
| 17-30    | 35-530   | チューブボ-ルト               | CLAMP                | 1    |
| 17-31    | 35-536   | 管継手ボ-ルト                | JOINT SCREW          | 1    |
| 17-32    | 35-537   | ビ-ニールチューブ              | TUBE                 | 1    |
| 17-33    | 35-538   | リターン用ハ-イプ              | PIPE                 | 1    |
| 17-34    | 35-540   | 油調節フ-レート               | PLATE                | 1    |
| 17-35    | 35-551   | ポンプギヤ給油配管              | PIPE                 | 1    |
| 17-36    | 35-560   | オイル噴出し継手               | JOINT SCREW          | 1    |
| 17-37    | 35-556   | ノズル                    | JOINT SCREW          | 1    |
| 17-38    | 35-557   | 油受け                    | OIL SIGHT TOP NOZZLE | 1    |
| 17-39    | 35-558   | ハ-イプサポ-ト               | SUPPORT              | 1    |
| 17-40    | 39-100   | ハ-イプサポ-ト               | PIPE SUPPORT         | 1    |
| 17-41    | 39-139   | 配管止め                   | CLAMP                | 1    |
| 17-42    | 39-501   | ワッシャ                   | WASHER               | 2    |
| 17-43    | 75-224   | ワッシャ                   | WASHER               | 1    |
| 17-44    | 75-455   | 六角穴付き止めねじ              | SCREW                | 1    |
| 17-45    | 87-072   | 六角穴付きボルト               | BOLT                 | 1    |
| 17-46    | 87-092   | ネジ                     | SCREW                | 7    |
| 17-47    | 87-093   | ネジ                     | SCREW                | 2    |
| 17-48    | 87-128   | ネジ                     | SCREW                | 1    |
| 17-49    | 87-142   | ネジ                     | SCREW                | 1    |
| 17-50    | 87-181   | ネジ                     | SCREW                | 1    |
| 17-51    | 87-254   | ネジ                     | SCREW                | 1    |
| 17-52    | 87-271   | ナット                    | NUT                  | 1    |
| 17-53    | 88-136   | ナット                    | NUT                  | 1    |
| 17-54    | 88-137   | ナット                    | NUT                  | 1    |
| 17-55    | 88-165   | 六角ナット                  | NUT                  | 2    |
| 17-56    | 87-083   | ネジ                     | SCREW                | 2    |



# 18. 下糸切装置 (UT) KNIFE MECHANISM

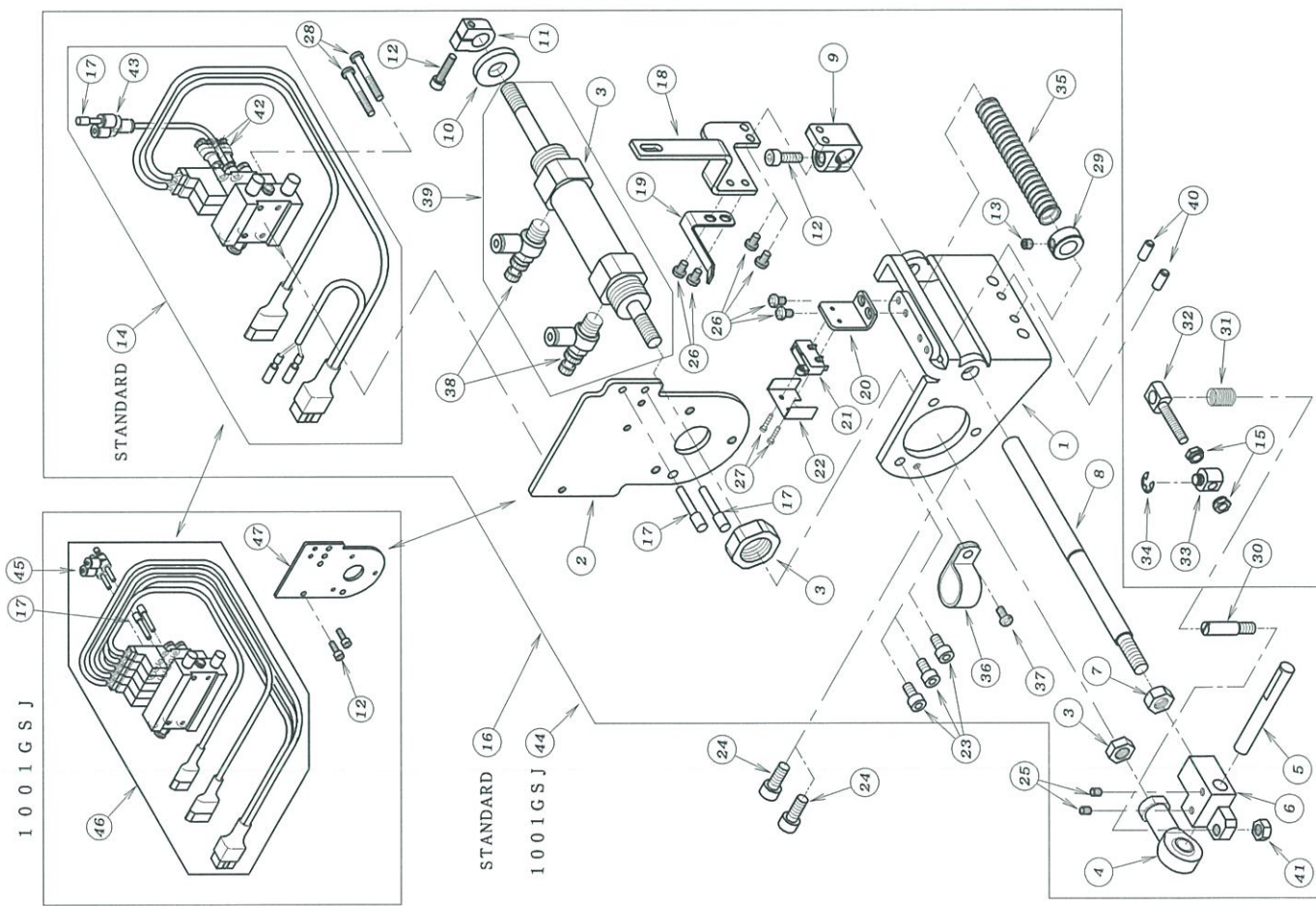


| REF. NO. | NC/UT   | NC/SJ/UT |
|----------|---------|----------|
| 18-41    | 00-8041 | 00-8042  |
| 18-20    | 05-812  | 05-159   |
| 18-22    | 05-799  | 05-793   |

| REF. NO. | PART NO. | 品名                | DESCRIPTION          | Q'TY |
|----------|----------|-------------------|----------------------|------|
| 18-01    | 05-051   | メスガイイト'レバ' -      | LEVER                | 2    |
| 18-02    | 05-052   | メスガイイト'レバ' -調節リング | RING                 | 2    |
| 18-03    | 05-053   | リング'ナット           | NUT                  | 2    |
| 18-04    | 05-054   | ネジ'               | SCREW                | 2    |
| 18-05    | 05-055   | 固定メス台'ネ           | SPRING               | 1    |
| 18-06    | 05-056   | 平頭付段ネジ'           | SCREW                | 1    |
| 18-07    | 05-058   | 固定メス台             | UPPER KNIFE HOLDER   | 1    |
| 18-08    | 05-059   | 可動メス台             | LOWER KNIFE HOLDER   | 1    |
| 18-09    | 05-060   | 駆動レバ' -           | LEVER                | 1    |
| 18-10    | 05-061   | ネジ'               | SCREW                | 4    |
| 18-11    | 05-062   | 可動メスガイイト'         | GUIDE                | 1    |
| 18-12    | 05-063   | 固定メス台補助'ネ         | SPRING               | 1    |
| 18-13    | 05-066   | メス台'プレート          | BASE PLATE           | 1    |
| 18-14    | 05-067   | 固定メス台ストップ'ネ       | STOPPER              | 1    |
| 18-15    | 05-070   | ルーバ' -糸締め糸道       | THREAD EYELET        | 1    |
| 18-16    | 05-071   | 固定メス台支エ'ネ         | SPRING               | 1    |
| 18-17    | 05-072   | 可動メスガイイト'         | GUIDE                | 1    |
| 18-18    | 05-075   | ガイドブラケット          | GUIDE BRACKET        | 1    |
| 18-19    | 05-658   | 可動メス              | LOWER KNIFE          | 1    |
| 18-20    | *        | 固定メス              | UPPER KNIFE          | 1    |
| 18-21    | 05-794   | 裏'ネ (上)           | LEAF SPRING          | 1    |
| 18-22    | *        | 裏'ネ (下)           | LEAF SPRING          | 1    |
| 18-23    | 05-822   | フ'ラケット            | BRACKET              | 1    |
| 18-24    | 05-882   | ガイイト'ローラ' (小)     | GUIDE ROLLER         | 1    |
| 18-25    | 05-894   | 裏'ネ調節板            | PLATE                | 1    |
| 18-26    | 05-898   | 可動メスガイド           | GUIDE                | 1    |
| 18-27    | 27-118   | ベッ'ト'上'カバー-UTC    | COVER                | 1    |
| 18-28    | 47-118   | 糸道                | THREAD EYELET        | 1    |
| 18-29    | 71-253   | ノックピ'ン            | PIN                  | 2    |
| 18-30    | 87-075   | ネジ'               | SCREW                | 2    |
| 18-31    | 87-077   | ネジ'               | SCREW                | 3    |
| 18-32    | 87-078   | ネジ'               | SCREW                | 1    |
| 18-33    | 87-079   | ネジ'               | SCREW                | 1    |
| 18-34    | 87-095   | ネジ'               | SCREW                | 1    |
| 18-35    | 87-098   | ネジ'               | SCREW                | 1    |
| 18-36    | 87-483   | プ'ライマ'ベ'小ねじ       | SCREW                | 1    |
| 18-37    | 87-123   | 六角穴付きボルト          | BOLT                 | 2    |
| 18-38    | 87-145   | ネジ'               | SCREW                | 1    |
| 18-39    | 87-414   | ネジ'               | SCREW                | 1    |
| 18-40    | 87-415   | ネジ'               | SCREW                | 5    |
| 18-41    | *        | メスセット             | THREAD TRIM ASSEMBLY | 1    |
| 18-42    | 87-398   | 六角穴付きボ'ルト         | BOLT                 | 2    |



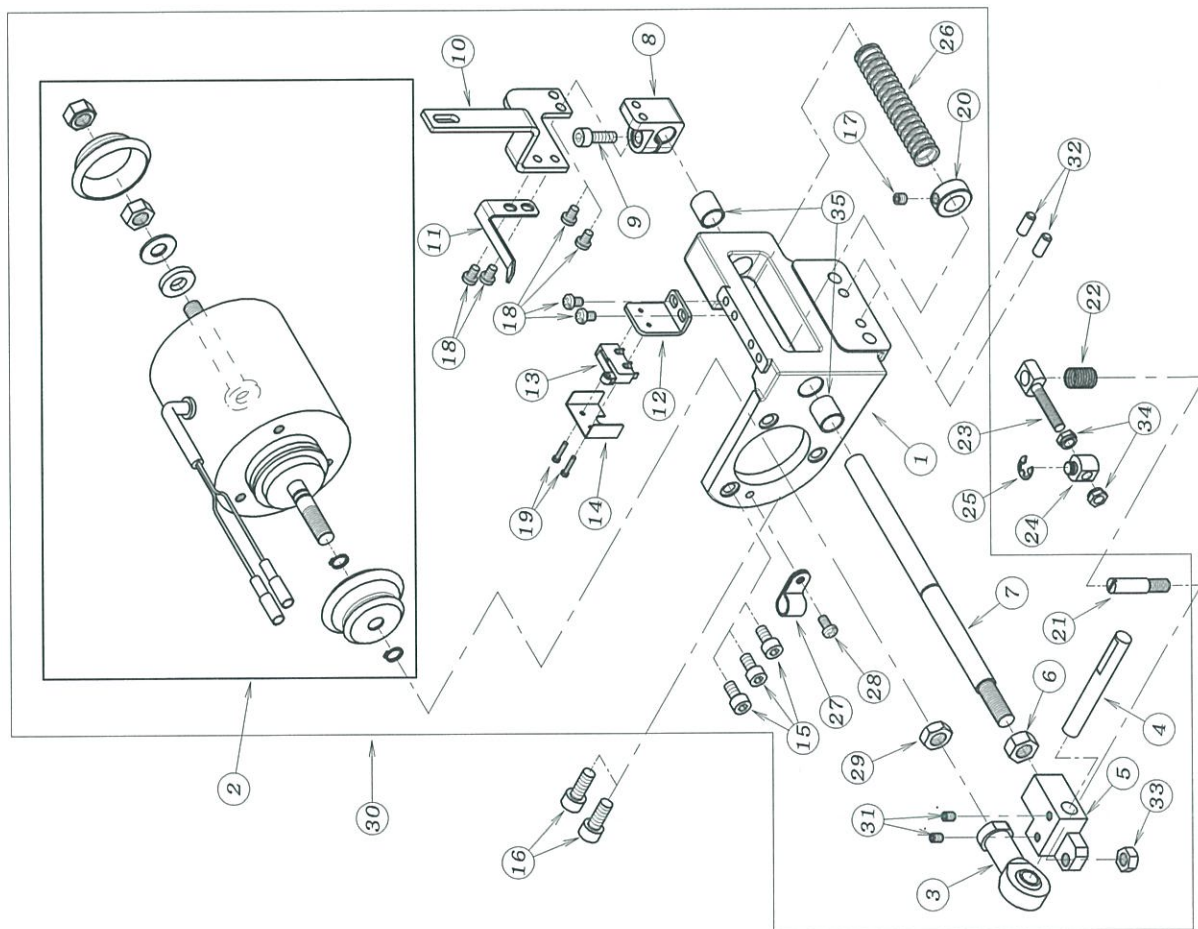
19. UT調整装置 (エア-式) THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)



| REF. NO. | PART NO. | 品名             | DESCRIPTION             | Qty |
|----------|----------|----------------|-------------------------|-----|
| 19-01    | 05-924   | シリンダ -取付ブ ラケット | BRACKET                 | 1   |
| 19-02    | 05-646   | シリンダ -取付板      | PLATE                   | 1   |
| 19-03    | 05-205   | メス駆動シリンダ -     | CYLINDER                | 1   |
| 19-04    | 05-842   | ロッドエンド         | ROD                     | 1   |
| 19-05    | 05-904   | 連結シャフト         | SHAFT                   | 1   |
| 19-06    | 05-828   | 連結ブ ラケット       | BRACKET                 | 1   |
| 19-07    | 88-176   | ナット            | NUT                     | 1   |
| 19-08    | 05-905   | 戻しシャフト         | SHAFT                   | 1   |
| 19-09    | 05-927   | レバ -取付台        | BRACKET                 | 1   |
| 19-10    | 05-907   | クッションゴ ム       | SHOCK RUBBER            | 1   |
| 19-11    | 05-220   | クッションストッパ      | COLLAR                  | 1   |
| 19-12    | 87-245   | 六角穴付きボルト       | BOLT                    | 4   |
| 19-13    | 87-274   | ネジ             | BOLT                    | 1   |
| 19-14    | 05-647   | 駆動弁2連セット       | SOLENOID VALVE ASSEMBLY | 1   |
| 19-15    | 88-004   | 調整ナット          | NUT                     | 2   |
| 19-16    | 00-6114  | UT調整装置         | AIR CYLINDER ASSEMBLY   | 1   |
| 19-17    | 06-597   | プラグ            | PLUG                    | 3~4 |
| 19-18    | 05-226   | 糸鋸刃接続プレート      | PLATE                   | 1   |
| 19-19    | 05-294   | スイッチガイド        | SWITCH PLATE            | 1   |
| 19-20    | 05-910   | スイッチ取付板        | PLATE                   | 1   |
| 19-21    | 05-911   | スイッチ           | SWITCH                  | 1   |
| 19-22    | 05-912   | スイッチカバー        | COVER                   | 1   |
| 19-23    | 87-213   | 六角穴付きボルト       | BOLT                    | 3   |
| 19-24    | 87-171   | 六角穴付きボルト       | BOLT                    | 2   |
| 19-25    | 87-181   | ネジ             | SCREW                   | 2   |
| 19-26    | 87-481   | ブライナベねじ        | SCREW                   | 6   |
| 19-27    | 87-282   | ナット付ナベ 小ネジ     | SCREW                   | 2   |
| 19-28    | 87-488   | ブライナベねじ        | SCREW                   | 2   |
| 19-29    | 75-537   | カラー            | COLLAR                  | 1   |
| 19-30    | 05-829   | 調整ピン (2)       | PIN                     | 1   |
| 19-31    | 79-540   | 調整ピン用スプリング     | SPRING                  | 1   |
| 19-32    | 05-913   | 調整ネジ           | SCREW                   | 1   |
| 19-33    | 05-045   | 調整ピン           | PIN                     | 1   |
| 19-34    | 93-211   | Eリング           | E RING                  | 1   |
| 19-35    | 79-642   | 戻しバネ           | SPRING                  | 1   |
| 19-36    | 06-927   | ナイロンクリップ       | CORD CLAMP              | 1   |
| 19-37    | 87-482   | ブライナベねじ        | SCREW                   | 1   |
| 19-38    | 06-580   | スピードコントロール     | SPEED CONTROLLER        | 2   |
| 19-39    | 00-6083  | メス駆動シリンダ -セット  | CYLINDER ASS' Y         | 1   |
| 19-40    | 71-208   | ノックピン          | PIN                     | 2   |
| 19-41    | 88-166   | ナット            | NUT                     | 1   |
| 19-42    | 05-484   | プランチユニオンワイ     | JOINT                   | 2~3 |
| 19-43    | 05-482   | ユニオンワイ         | JOINT                   | 1   |
| 19-44    | 00-6140  | UT調整装置         | AIR CYLINDER ASSEMBLY   | 1   |
| 19-45    | 05-221   | スピードコントロール     | SPEED CONTROLLER        | 2   |
| 19-46    | 05-969   | 駆動弁5連セット       | SOLENOID VALVE ASSEMBLY | 1   |
| 19-47    | 05-970   | シリンダ -取付板      | PLATE                   | 1   |



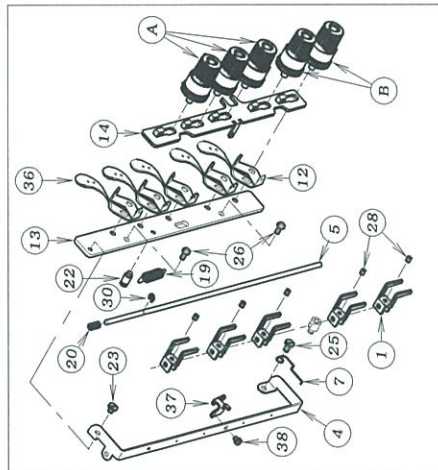
20. UT 駆動装置 (電気式) THREAD TRIMMING MECHANISM (ELECTRIC TYPE)



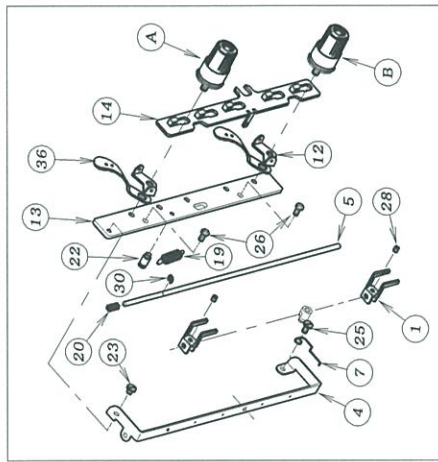
| REF. NO. | PART NO. | 品 名           | DESCRIPTION       | Q'TY |
|----------|----------|---------------|-------------------|------|
| 20-01    | 05-901   | シリンドラ-取付ブラケット | BRACKET           | 1    |
| 20-02    | 06-336   | メス用ソレノイド      | SOLENOID          | 1    |
| 20-03    | 05-842   | ロッドエンド        | ROD               | 1    |
| 20-04    | 05-904   | 駆動シャフト        | SHAFT             | 1    |
| 20-05    | 05-828   | 連結ブラケット       | BRACKET           | 1    |
| 20-06    | 88-176   | ナット           | NUT               | 1    |
| 20-07    | 05-905   | 戻しシャフト        | SHAFT             | 1    |
| 20-08    | 05-927   | レバ-取付台        | BRACKET           | 1    |
| 20-09    | 87-245   | 六角穴付きボルト      | BOLT              | 1    |
| 20-10    | 05-226   | 糸鋸連結プレート      | PLATE             | 1    |
| 20-11    | 05-294   | スイッチガイド       | SWITCH PLATE      | 1    |
| 20-12    | 05-910   | スイッチ取付板       | PLATE             | 1    |
| 20-13    | 05-911   | スイッチ          | SWITCH            | 1    |
| 20-14    | 05-912   | スイッチカバー       | COVER             | 1    |
| 20-15    | 87-213   | 六角穴付きボルト      | BOLT              | 3    |
| 20-16    | 87-171   | 六角穴付きボルト      | BOLT              | 2    |
| 20-17    | 87-274   | ネジ            | SCREW             | 1    |
| 20-18    | 87-481   | ブライナベ-ねじ      | SCREW             | 6    |
| 20-19    | 87-282   | 十字穴付き小ネジ      | SCREW             | 2    |
| 20-20    | 75-537   | カラー           | COLLAR            | 1    |
| 20-21    | 05-829   | ピン (2)        | PIN               | 1    |
| 20-22    | 79-540   | 連結ピン用スプリング    | SPRING            | 1    |
| 20-23    | 05-913   | 連結ネジ          | SCREW             | 1    |
| 20-24    | 05-045   | ピン (1)        | PIN               | 1    |
| 20-25    | 93-211   | Eリング          | E RING            | 1    |
| 20-26    | 79-642   | 戻しネジ          | SCREW             | 1    |
| 20-27    | 06-928   | ナイロンクリップ 7N   | CODE CLAMP        | 1    |
| 20-28    | 87-482   | ブライナベ-ねじ      | SCREW             | 1    |
| 20-29    | 88-179   | ナット           | NUT               | 1    |
| 20-30    | 00-6115  | UT電式下床設置      | SOLENOID ASSEMBLY | 1    |
| 20-31    | 87-181   | ネジ            | SCREW             | 2    |
| 20-32    | 71-208   | ロックピン         | PIN               | 2    |
| 20-33    | 88-166   | ナット           | NUT               | 1    |
| 20-34    | 88-004   | 調整ナット         | NUT               | 2    |
| 20-35    | 81-588   | ブッシュ          | BUSHING           | 2    |

# 21. 糸調子機構 (UT) THREAD TENSION MECHANISM (UT)

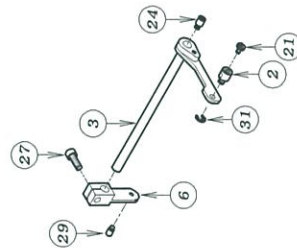
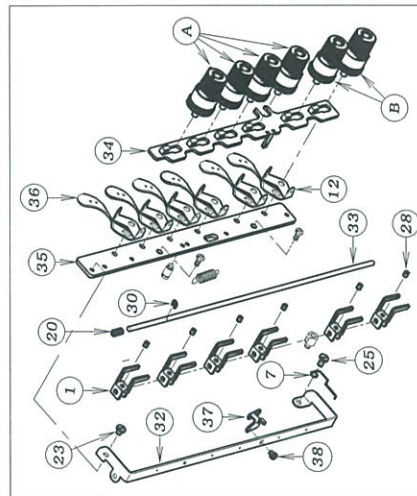
1103G



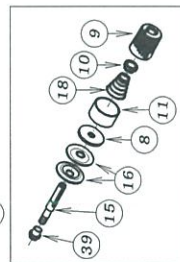
1001GSJ



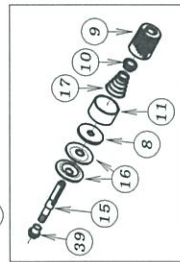
1104G



B



A

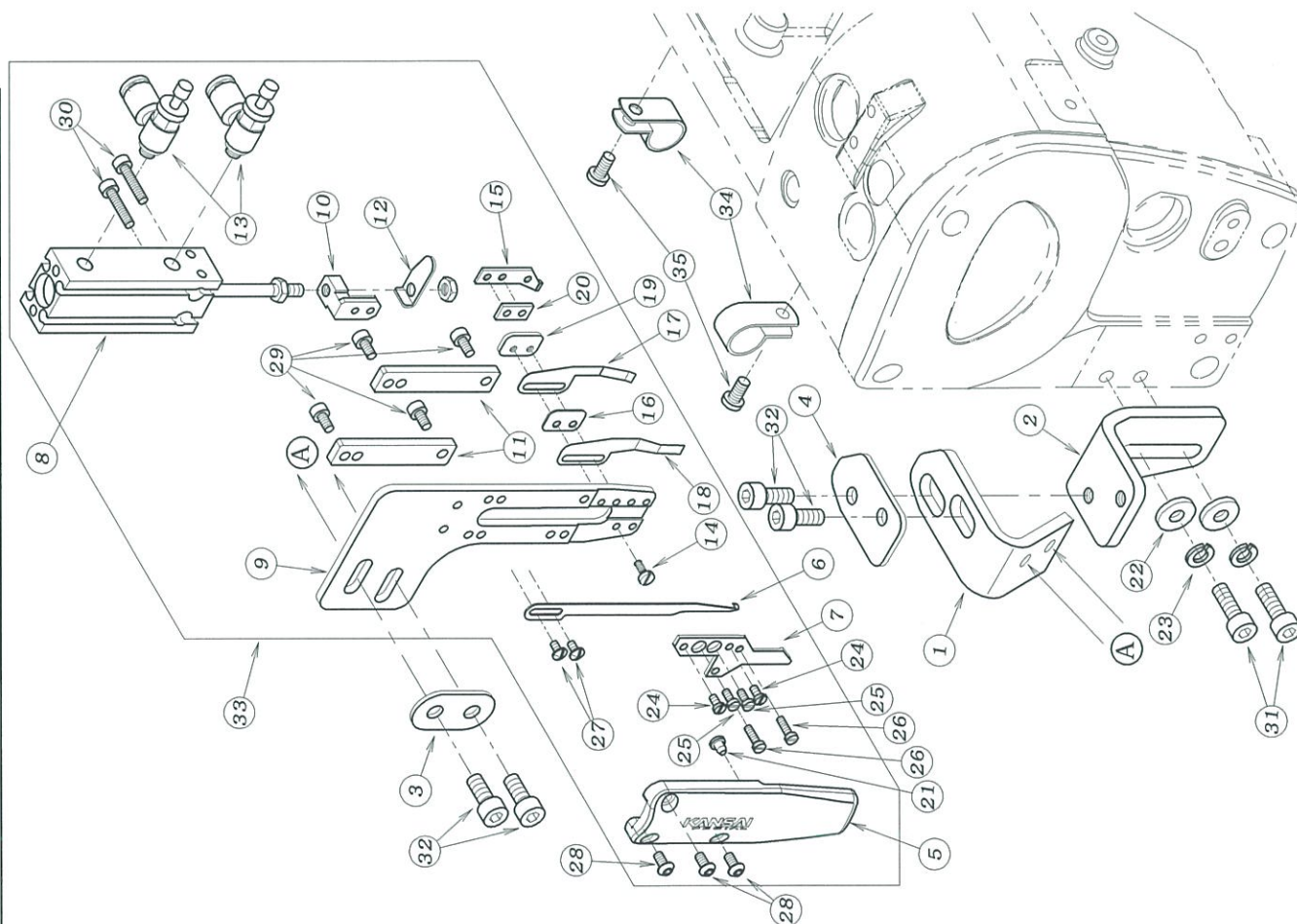


| REF. NO. | PART NO. | 品名            | DESCRIPTION                | Q'TY  |
|----------|----------|---------------|----------------------------|-------|
| 21-01    | 05-850   | 糸緩めブロック (大)   | HOLDER (LARGE)             | 5-6   |
| 21-02    | 05-853   | 糸緩め連結片        | HOLDER                     | 1     |
| 21-03    | 05-955   | 糸緩め軸          | SHAFT                      | 1     |
| 21-04    | 05-956   | 糸緩め糸道         | THREAD EYELET              | 1     |
| 21-05    | 05-957   | 糸緩め棒          | SHAFT                      | 1     |
| 21-06    | 05-958   | クラシクレハネ       | LEVER                      | 1     |
| 21-07    | 05-961   | 糸緩め防振パネ       | SPRING                     | 1     |
| 21-08    | 23-324   | フェルト          | FELT                       | 5-6   |
| 21-09    | 41-104   | チャンボン皿小ケース    | THREAD TENSION NUT         | 5-6   |
| 21-10    | 41-105   | チャンボン皿ラチェット   | SPRING POST                | 5-6   |
| 21-11    | 41-106   | 大ケース          | SPRING CUP                 | 5-6   |
| 21-12    | 41-115   | 糸道 (上)        | THREAD GUIDE (UPPER)       | 5-6   |
| 21-13    | 41-501   | ブラケット         | BRACKET                    | 1     |
| 21-14    | 41-502   | 糸緩めプレート       | THREAD RELEASER            | 1     |
| 21-15    | 41-527   | 調子棒           | SCREW STUD                 | 5-6   |
| 21-16    | 41-509   | チャンボン皿        | TENSION DISC               | 10-12 |
| 21-17    | 41-701   | チャンボン調子パネ (強) | SPRING (HEAVY)             | 3     |
| 21-18    | 41-702   | チャンボン調子パネ (弱) | SPRING (LIGHT)             | 1-2   |
| 21-19    | 79-514   | 引張りパネ         | SPRING                     | 1     |
| 21-20    | 79-542   | 糸緩め棒防振パネ      | SPRING                     | 1     |
| 21-21    | 84-361   | ネジ            | SCREW                      | 1     |
| 21-22    | 84-501   | ネジ            | SCREW                      | 1     |
| 21-23    | 84-553   | ネジ            | SCREW                      | 1     |
| 21-24    | 84-561   | ネジ            | SCREW                      | 1     |
| 21-25    | 84-574   | ネジ            | SCREW                      | 1     |
| 21-26    | 87-482   | プライマパネ小ねじ     | SCREW                      | 2     |
| 21-27    | 87-224   | 六角穴付きボルト      | BOLT                       | 1     |
| 21-28    | 87-286   | ネジ            | SCREW                      | 5-6   |
| 21-29    | 87-423   | 段ネジ           | SCREW                      | 1     |
| 21-30    | 93-201   | Eリング          | E-RING                     | 1     |
| 21-31    | 93-205   | Eリング          | E-RING                     | 1     |
| 21-32    | 05-962   | 糸緩め糸道         | THREAD EYELET              | 1     |
| 21-33    | 05-963   | 糸緩め棒          | SHAFT                      | 1     |
| 21-34    | 41-519   | 糸緩めプレート       | THREAD RELEASER            | 1     |
| 21-35    | 41-525   | フックラチェット      | BRACKET                    | 1     |
| 21-36    | 41-117   | 糸道 (下)        | THREAD GUIDE               | *     |
| 21-37    | 41-514   | ルーバー糸道        | THREAD EYELET              | 1     |
| 21-38    | 84-364   | ネジ            | SCREW                      | 1     |
| 21-39    | 41-526   | 調子棒カラー        | COLLAR                     | 5-6   |
| 21-40    | 40-7510  | チャンボンセット (強)  | THREAD TENSION SET (HEAVY) | *     |
| 21-41    | 40-7520  | チャンボンセット (弱)  | THREAD TENSION SET (LIGHT) | *     |



## 22. 上飾り糸切装置 (エア式)

### SPREADER THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)

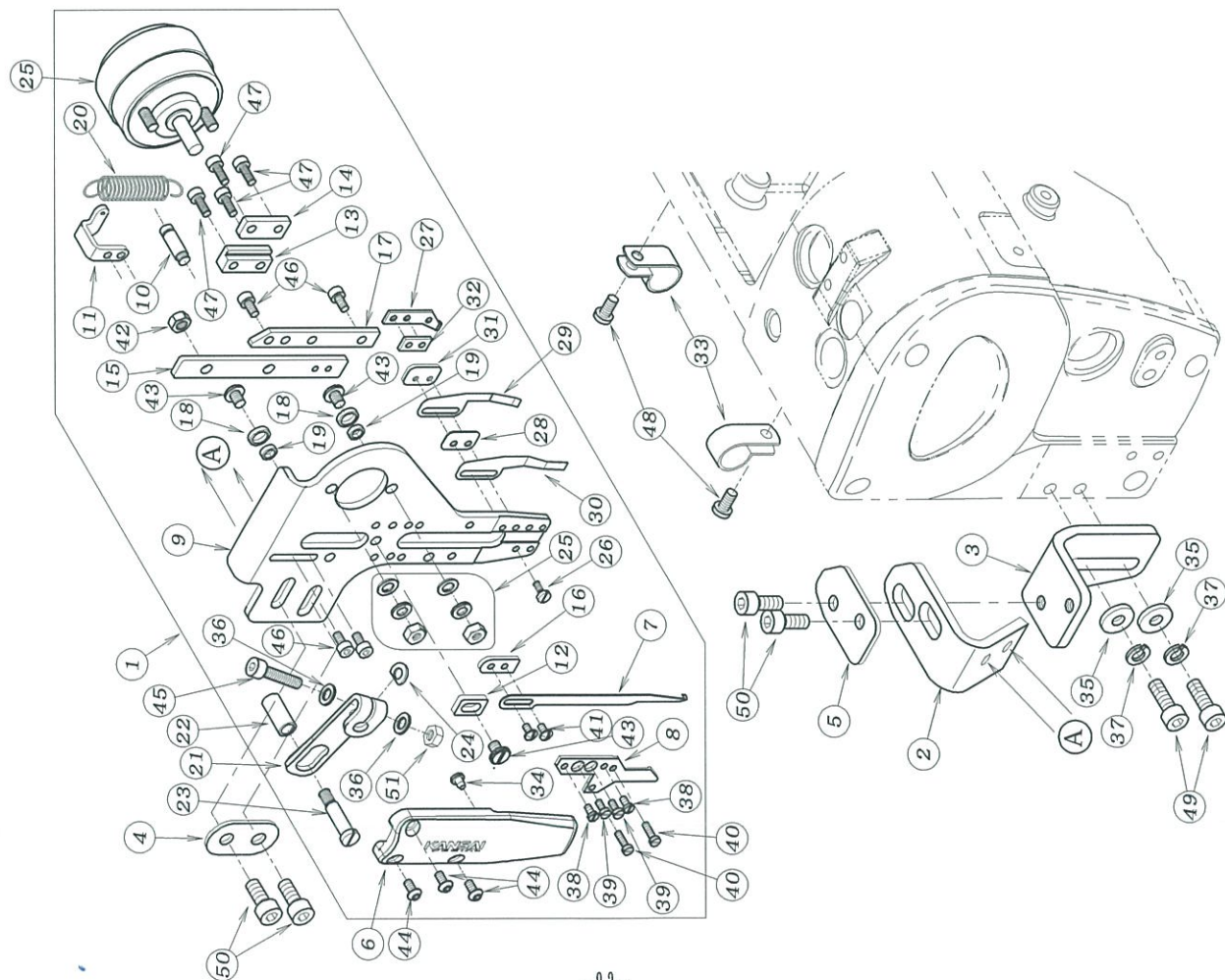


| REF. NO. | PART NO. | 品 名           | DESCRIPTION             | Q'TY |
|----------|----------|---------------|-------------------------|------|
| 22-01    | 05-271   | 調節金具          | BRACKET                 | 1    |
| 22-02    | 05-272   | 取付ブラケット       | BRACKET                 | 1    |
| 22-03 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



# 23. 上飾り糸切装置 (電気式)

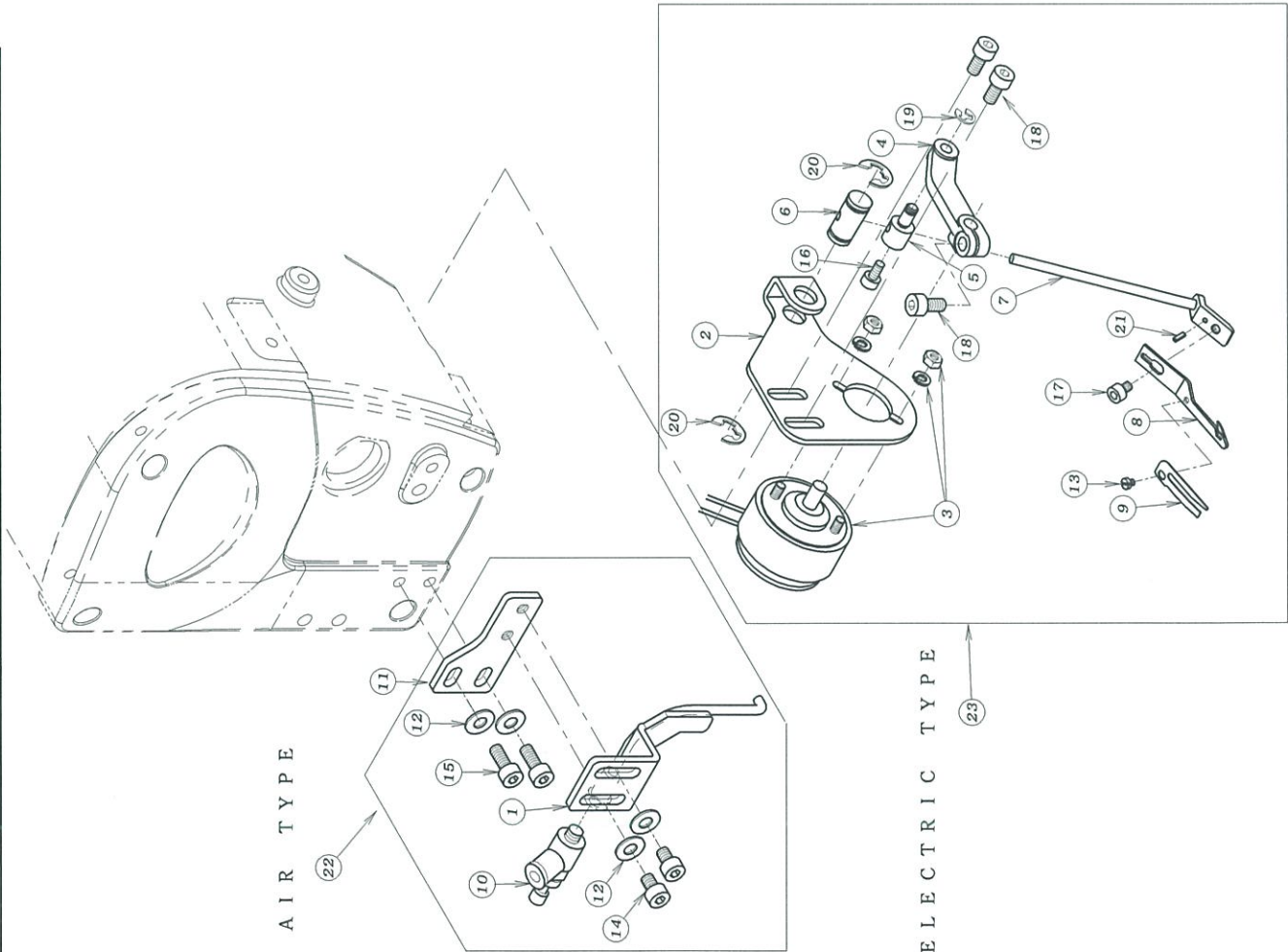
## SPREADER THREAD TRIMMING MECHANISM (ELECTRIC TYPE)



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

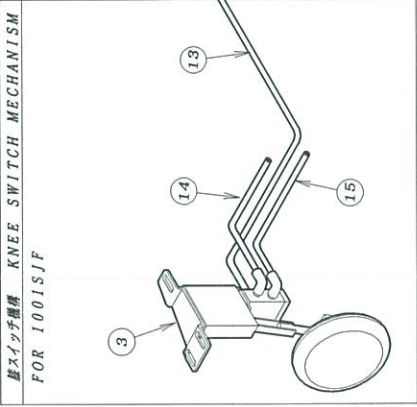
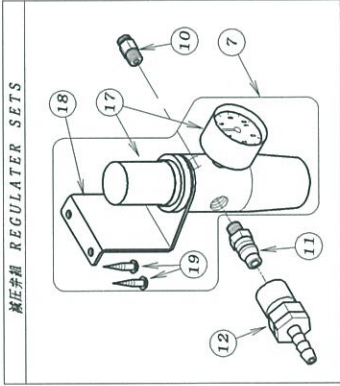
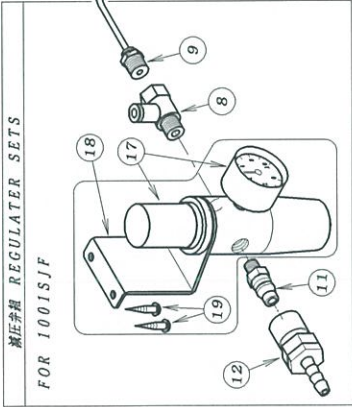
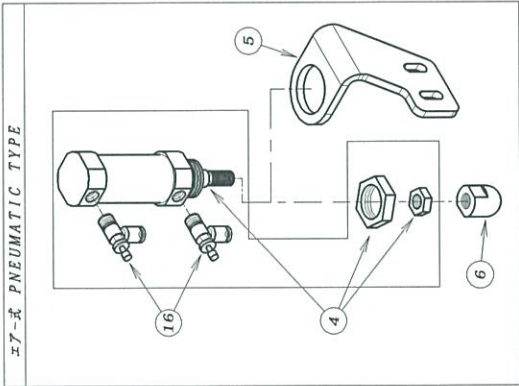
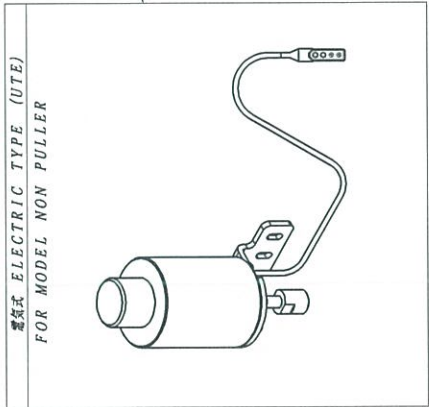


# 24. 上糸払い装置      THREAD WIPER MECHANISM



| REF. NO. | PART NO. | 品 名          | DESCRIPTION                      | Q'TY |
|----------|----------|--------------|----------------------------------|------|
| 24-01    | 06-283   | エアノズル        | AIR NOZZLE                       | 1    |
| 24-02    | 06-491   | ソレノイド 取付台    | BRACKET                          | 1    |
| 24-03    | 06-492   | ワイパ-ソレノイド    | SOLENOID                         | 1    |
| 24-04    | 06-493   | ソレノイド レバ-    | LEVER                            | 1    |
| 24-05    | 06-494   | 段付ピ-ン        | PIN                              | 1    |
| 24-06    | 06-495   | 案内ピ-ン        | GUIDE PIN                        | 1    |
| 24-07    | 06-496   | ワイパ- 取付台     | BRACKET                          | 1    |
| 24-08    | 06-497   | ワイパ-         | WIPER                            | 1    |
| 24-09    | 06-498   | 糸抜きハ-ネ       | SPRING                           | 1    |
| 24-10    | 06-559   | スピード-コントローラ- | SPEED CONTROLLER                 | 1    |
| 24-11    | 27-236   | エアノズル取付プレート  | BRACKET                          | 1    |
| 24-12    | 75-455   | ワッシャ         | WASHER                           | 4    |
| 24-13    | 87-091   | ネジ           | SCREW                            | 1    |
| 24-14    | 87-092   | 六角穴付きボルト     | BOLT                             | 2    |
| 24-15    | 87-113   | 六角穴付きボルト     | BOLT                             | 2    |
| 24-16    | 87-123   | 六角穴付きボルト     | BOLT                             | 1    |
| 24-17    | 87-142   | ネジ           | SCREW                            | 1    |
| 24-18    | 87-177   | 六角穴付きボルト     | BOLT                             | 3    |
| 24-19    | 93-201   | Eリング         | E-RING                           | 1    |
| 24-20    | 93-213   | E型止め輪        | E-RING                           | 2    |
| 24-21    | 93-717   | スプリング ピ-ン    | SPRING PIN                       | 1    |
| 24-22    | 00-8036  | 糸払い装置 (エア-)  | WIPER MECHANISM ASS'Y (AIR)      | 1    |
| 24-23    | 00-8045  | 糸払い装置 (電気)   | WIPER MECHANISM ASS'Y (ELECTRIC) | 1    |

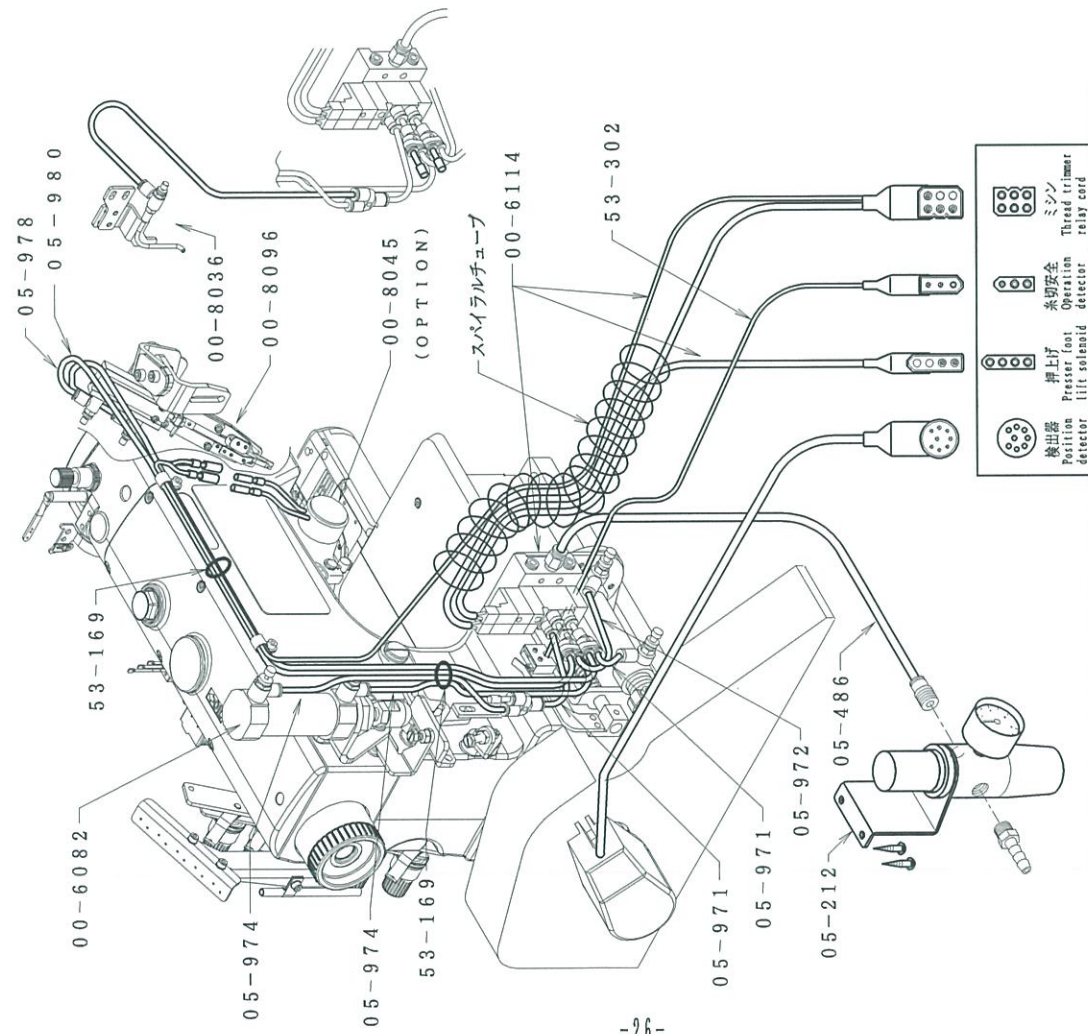
# 25. 押え揚げ装置, レギュレーターセット, 膝スイッチ機構 FOOT LIFTER MECHANISM, REGULATOR SETS



| REF. NO. | PART NO.  | 品 名               | DESCRIPTION                | Q'TY |
|----------|-----------|-------------------|----------------------------|------|
| 25-01    | 00-8099   | 電式押え揚げセット         | FOOT LIFTER SOLENOID ASS'Y | 1    |
| 25-02    | 00-6082   | 押え揚げシリンダー・セット     | AIR CYLINDER ASS'Y         | 1    |
| 25-03    | 00-6118   | 膝スイッチセット          | KNEE SWITCH ASS'Y          | 1    |
| 25-04    | 05-207    | 押え揚げシリンダー         | AIR CYLINDER               | 1    |
| 25-05    | 77-032    | シリンダー・ブ ラケット      | BRACKET                    | 1    |
| 25-06    | 05-897    | 作動油具              | BRACKET                    | 1    |
| 25-07    | 05-212    | フィルタレキ' ユレータ      | REGULATOR                  | 1    |
| 25-08    | 05-214    | ユニバ' -サルメスエルホ'    | JOINT                      | 1    |
| 25-09    | 05-217    | ハーフユニオン           | JOINT                      | 1    |
| 25-10    | 05-218    | レキ' ユレータ-用継手      | JOINT                      | 1    |
| 25-11    | 06-516    | カフ' ラメス           | CONNECTOR                  | 1    |
| 25-12    | 06-517    | カフ' ラオス           | CONNECTOR                  | 1    |
| 25-13    | 05-932    | エア-チューブ Ø4x1500mm | AIR TUBE Ø4x1500mm         | 1    |
| 25-14    | 05-938    | エア-チューブ Ø4x450mm  | AIR TUBE Ø4x450mm          | 1    |
| 25-15    | 05-939    | エア-チューブ Ø4x500mm  | AIR TUBE Ø4x500mm          | 1    |
| 25-16    | 06-580    | スピードコントローラー       | SPEED CONTROLLER           | 2    |
| 25-17    | 05-2120-A | フィルタ・レキ' ユレータ     | REGULATOR                  | 1    |
| 25-18    | 05-2120-B | 取付けブラケット          | BRACKET                    | 1    |
| 25-19    | 87-905    | 木ネジ               | SCREW                      | 2    |

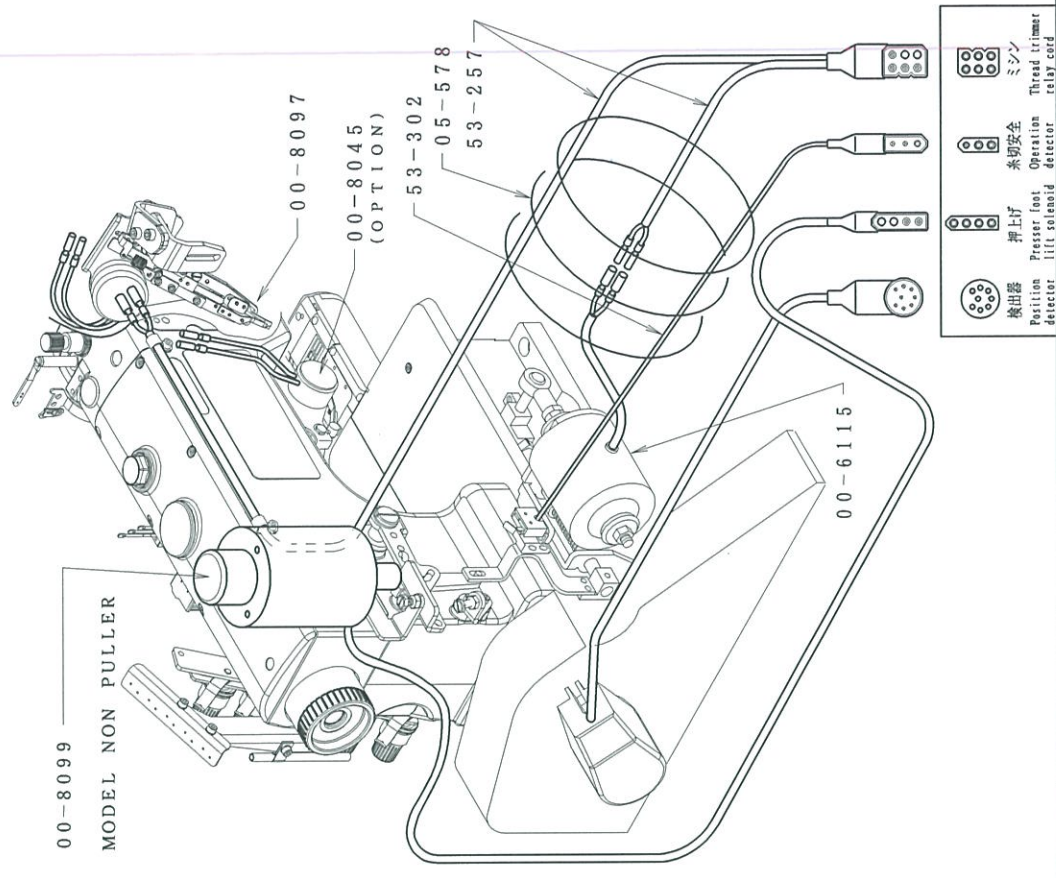


26-1. 配管, 配線図 (エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



| 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)            |
| 00-6082  | 押揚シリンダー-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)       |

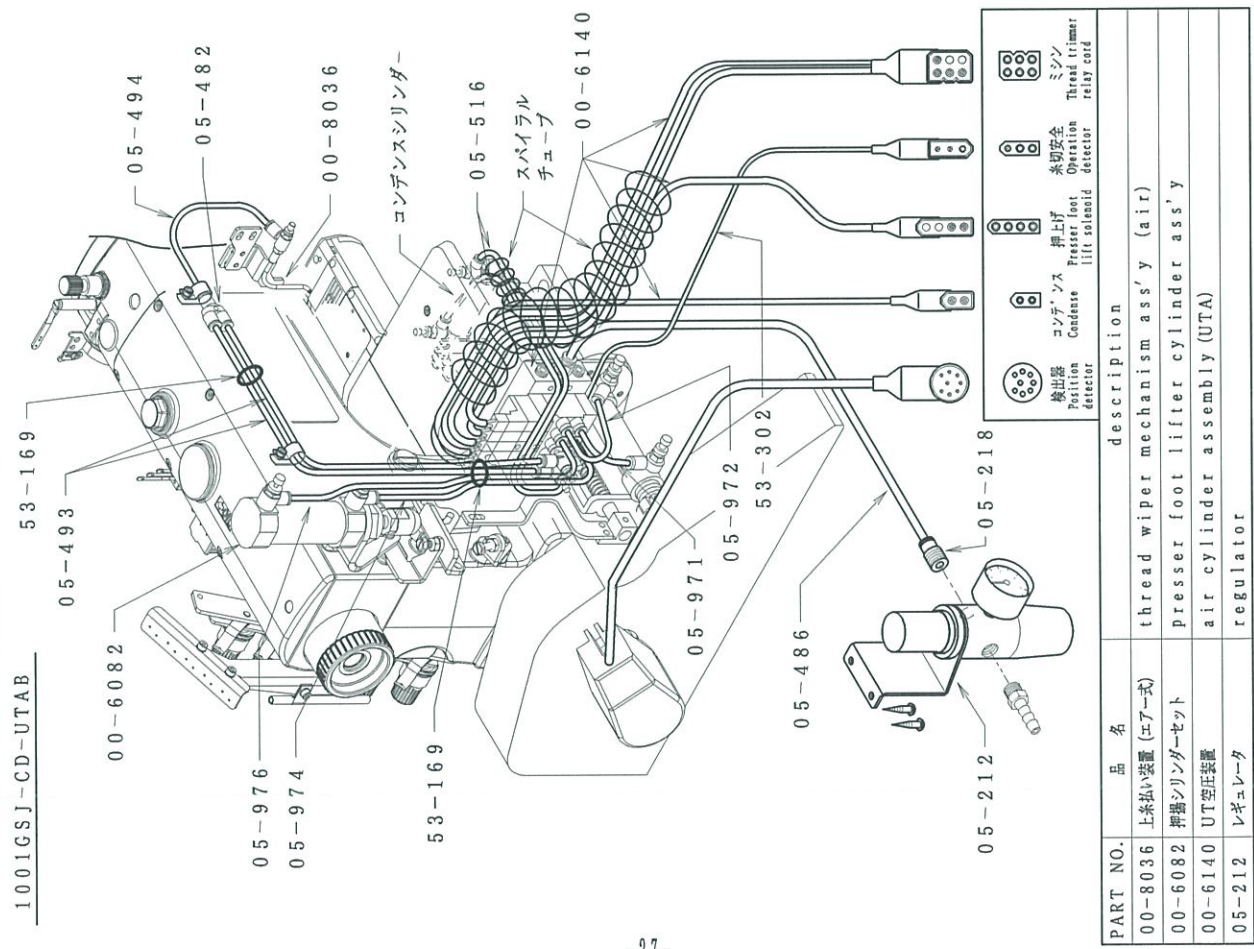
26-2. 配線図 (電気式) CORD CONNECTION (ELECTRIC TYPE)



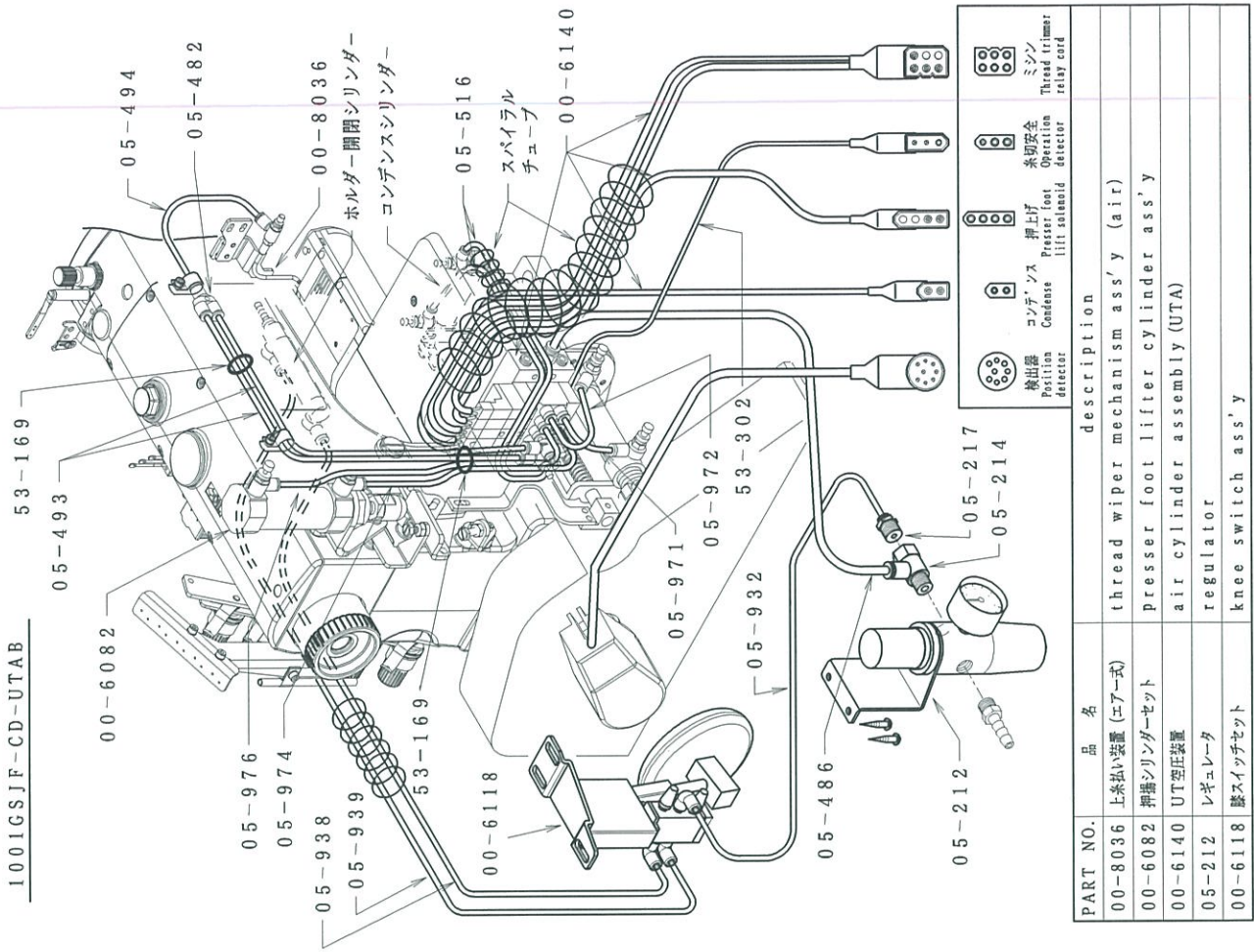
| PART NO. | 品 名        | description                                         |
|----------|------------|-----------------------------------------------------|
| 00-8097  | 上糸糸切装置     | spreader thread trimming mechanism                  |
| 00-8099  | UT電気式押揚げ装置 | presser foot lifter solenoid ass'y (FOR NON 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                                          |



26-3. 配管, 配線図 (エア-式) WIRING AND PIPING (PNEUMATIC TYPE)

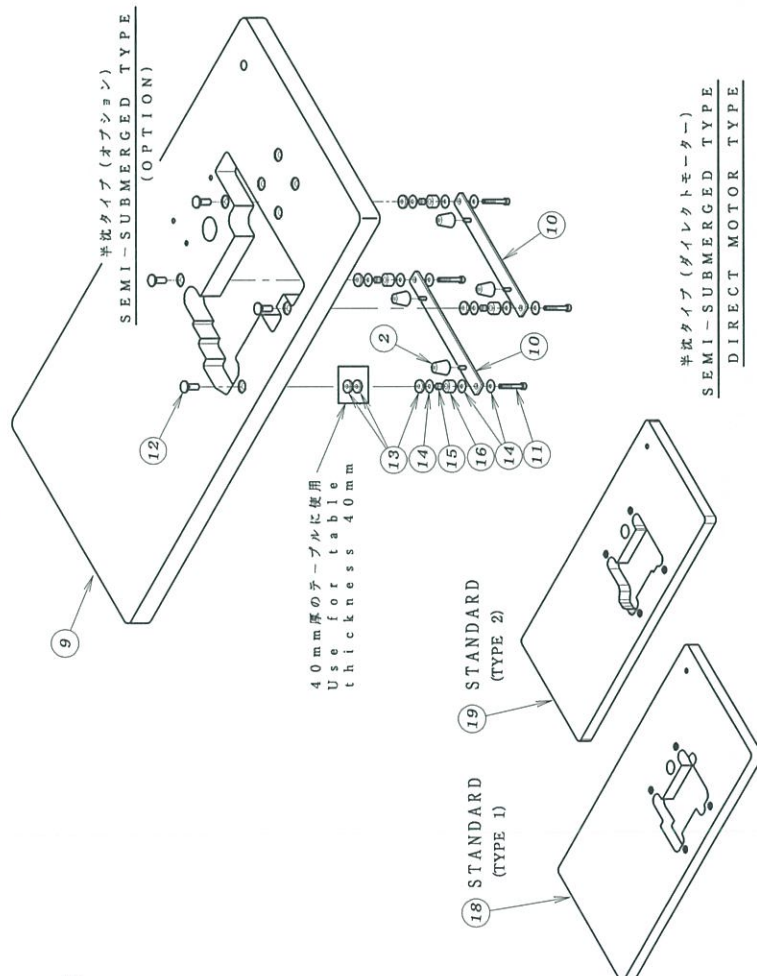
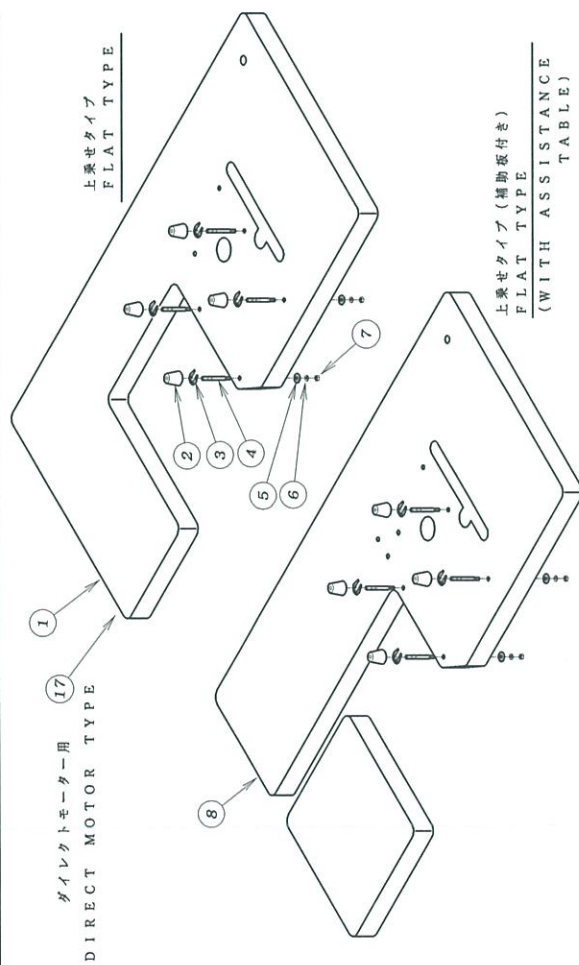


26-4. 配管, 配線図 (エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



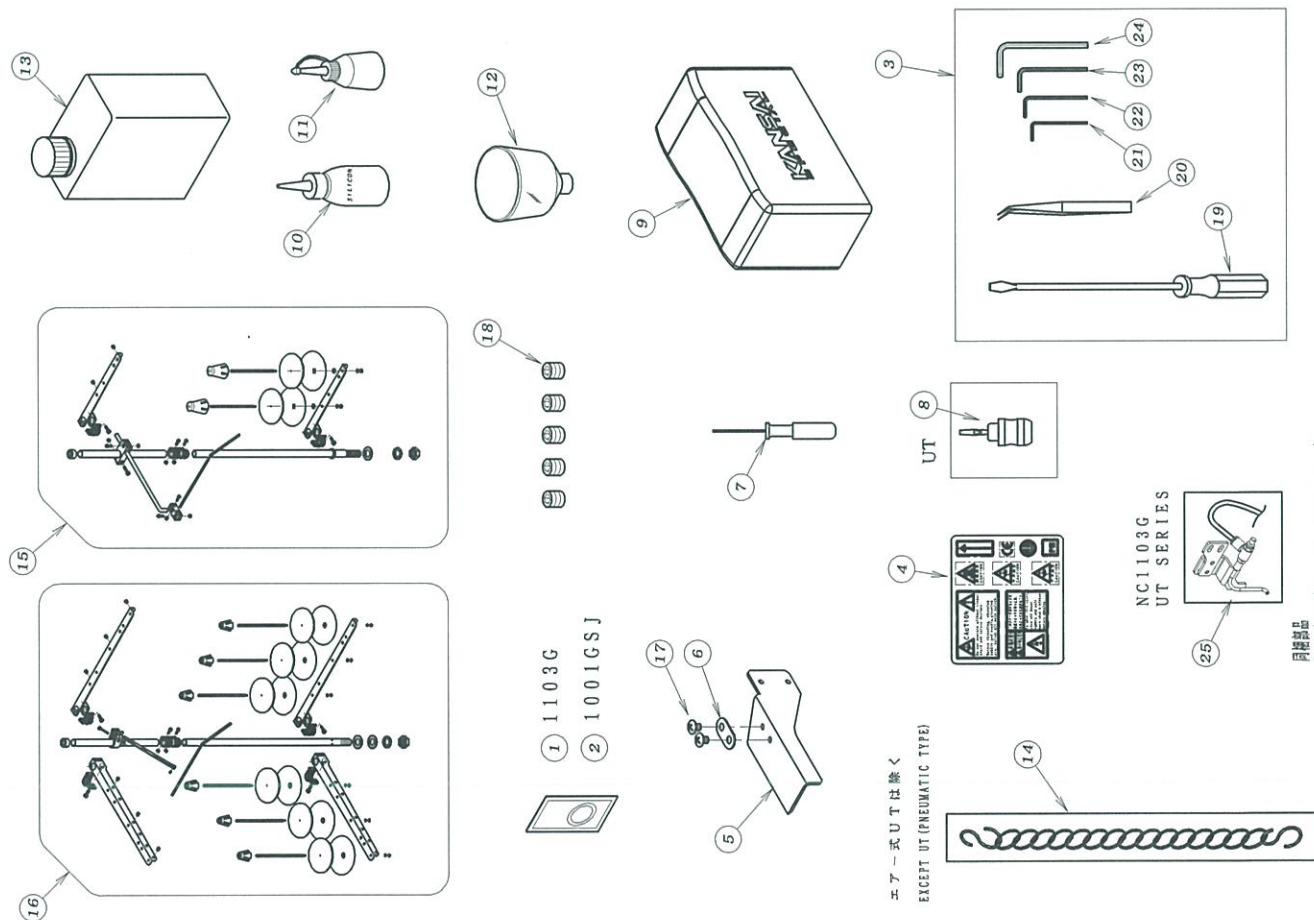


# 27. テーブル関係 TABLE



| REF.NO. | PART NO. | 品 名               | DESCRIPTION                       | Q'TY |
|---------|----------|-------------------|-----------------------------------|------|
| 27-01   | 21-027   | シリンダーフラットテーブル     | FLAT TABLE                        | 1    |
| 27-02   | 23-509   | クッションゴム           | CUSHION RUBBER                    | 4    |
| 27-03   | 93-501   | U型止め輪             | U-RING                            | 4    |
| 27-04   | 42-501   | クッションゴム取付ネジ       | SCREW                             | 4    |
| 27-05   | 75-536   | 平ワッシャー            | WASHER                            | 4    |
| 27-06   | 75-527   | M6用平ワッシャー         | WASHER                            | 4    |
| 27-07   | 88-166   | 固定ナット             | NUT                               | 4    |
| 27-08   | 21-025   | 補助テーブル            | WITH ASSISTANCE TABLE             | 1    |
| 27-09   | 21-014   | シリンダーフラットテーブル     | SEMI SUBMERGED TABLE              | 1    |
| 27-10   | 25-524   | タンク取付金具 (D)       | SUPPORTING BOARD                  | 2    |
| 27-11   | 87-281   | 六角穴付ボルト           | BOLT                              | 4    |
| 27-12   | 42-503   | 本機用ナット            | NUT                               | 4    |
| 27-13   | 42-507   | スペーサー             | SPACER                            | 4    |
| 27-14   | 75-535   | ワッシャー             | WASHER                            | 12   |
| 27-15   | 42-509   | 防振ゴムカラー           | SWING PROOF RUBBER COLLAR         | 4    |
| 27-16   | 42-508   | 防振ゴム              | SWING PROOF RUBBER                | 4    |
| 27-17   | 27-312   | 上乗せテーブルダイレクトモーター用 | FLAT TABLE DIRECT MOTOR           | 1    |
| 27-18   | 27-341   | 半沈タイプダイレクトモーター用   | SEMI SUBMERGED TABLE DIRECT MOTOR | 1    |
| 27-19   | NR-789   | 半沈タイプダイレクトモーター用   | SEMI SUBMERGED TABLE DIRECT MOTOR | 1    |

# 28. 糸立て及びアクセサリー関係 THREAD STAND AND ACCESSORIES



| REF. NO. | PART NO.  | 品名                | DESCRIPTION                 | Q'TY |
|----------|-----------|-------------------|-----------------------------|------|
| 28-01    | 13-0110-6 | 針 (UYX128GAS #11) | NEEDLE                      | 1    |
| 28-02    | 13-1510-5 | 針 (TVX5 #21)      | NEEDLE                      | 1    |
| 28-03    | 20-0010   | 付属部品ケース           | ACCESSORIES                 | 1    |
| 28-04    | 20-6200   | 警告ラベルシール          | INFORMATION SEAL            | 1    |
| 28-05    | 21-242    | 補助カバー             | COVER                       | 1    |
| 28-06    | 26-822    | ラッパ 取付金具          | PLATE                       | 1    |
| 28-07    | 28-317    | 柄付き六角レンチ 1.5mm    | ALLEN KEY (1.5mm)           | 1    |
| 28-08    | 28-454    | トライバール (小)        | DRIVER (S)                  | 1    |
| 28-09    | 28-557    | ミシンカバー            | COVER                       | 1    |
| 28-10    | 28-612    | シリコンオイル           | SILICON OIL                 | 1    |
| 28-11    | 28-614    | 油差し               | OILER                       | 1    |
| 28-12    | 28-615    | シヨウコ              | OIL FUNNEL                  | 1    |
| 28-13    | 28-618    | オイル               | OIL                         | 1    |
| 28-14    | 28-920    | チェーン              | CHAIN                       | 1    |
| 28-15    | 42-002    | 2本糸立て             | THREAD STAND ASSEMBLY       | 1    |
| 28-16    | 42-706    | 6本糸立て             | THREAD STAND ASSEMBLY       | 1    |
| 28-17    | 85-181    | ネジ                | SCREW                       | 2    |
| 28-18    | 87-104    | ネジ                | SCREW                       | 5    |
| 28-19    | 28-452    | ドライバ (大)          | DRIVER (LARGE)              | 1    |
| 28-20    | 28-011    | ピンセット             | TWEZERS                     | 1    |
| 28-21    | 28-311    | 六角レンチ 2mm         | ALLEN KEY (2mm)             | 1    |
| 28-22    | 28-312    | 六角レンチ 2.5mm       | ALLEN KEY (2.5mm)           | 1    |
| 28-23    | 28-313    | 六角レンチ 3mm         | ALLEN KEY (3mm)             | 1    |
| 28-24    | 28-314    | 六角レンチ 5mm         | ALLEN KEY (5mm)             | 1    |
| 28-25    | 00-8036   | 糸入れ装置 (エア)        | WIPER MECHANISM ASS'Y (AIR) | 1    |

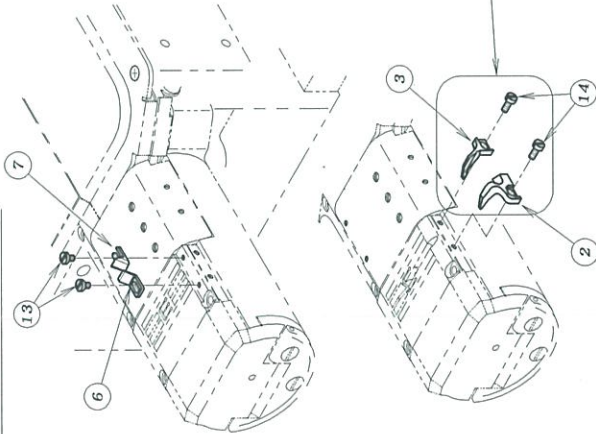


29. CL, DA, SJタイプ生地ガイド関係

FABRIC GUIDE FOR MODEL CL, DA, SJ

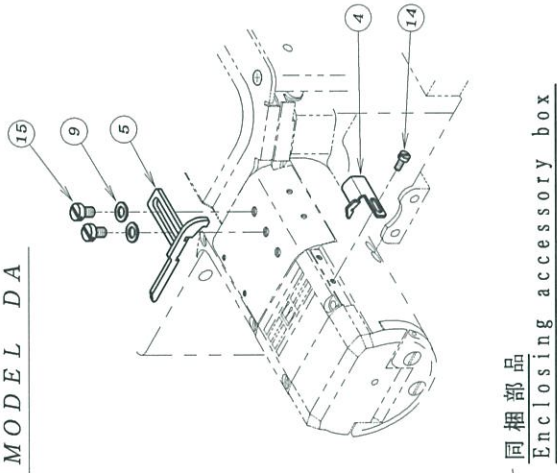
CLタイプ

MODEL CL



DAタイプ

MODEL DA

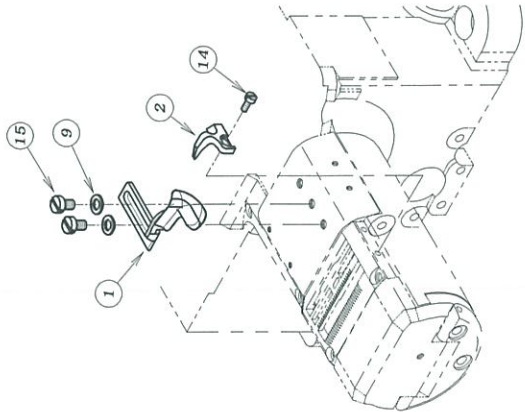


同梱部品

Enclosing accessory box

SJタイプ

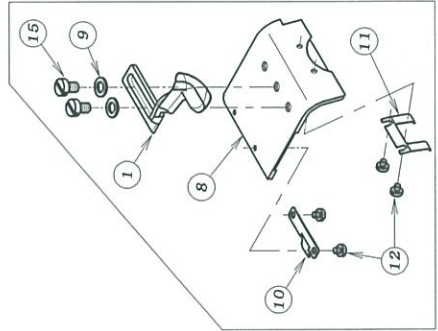
MODEL SJ



SJFタイプ同梱部品

MODEL SJF

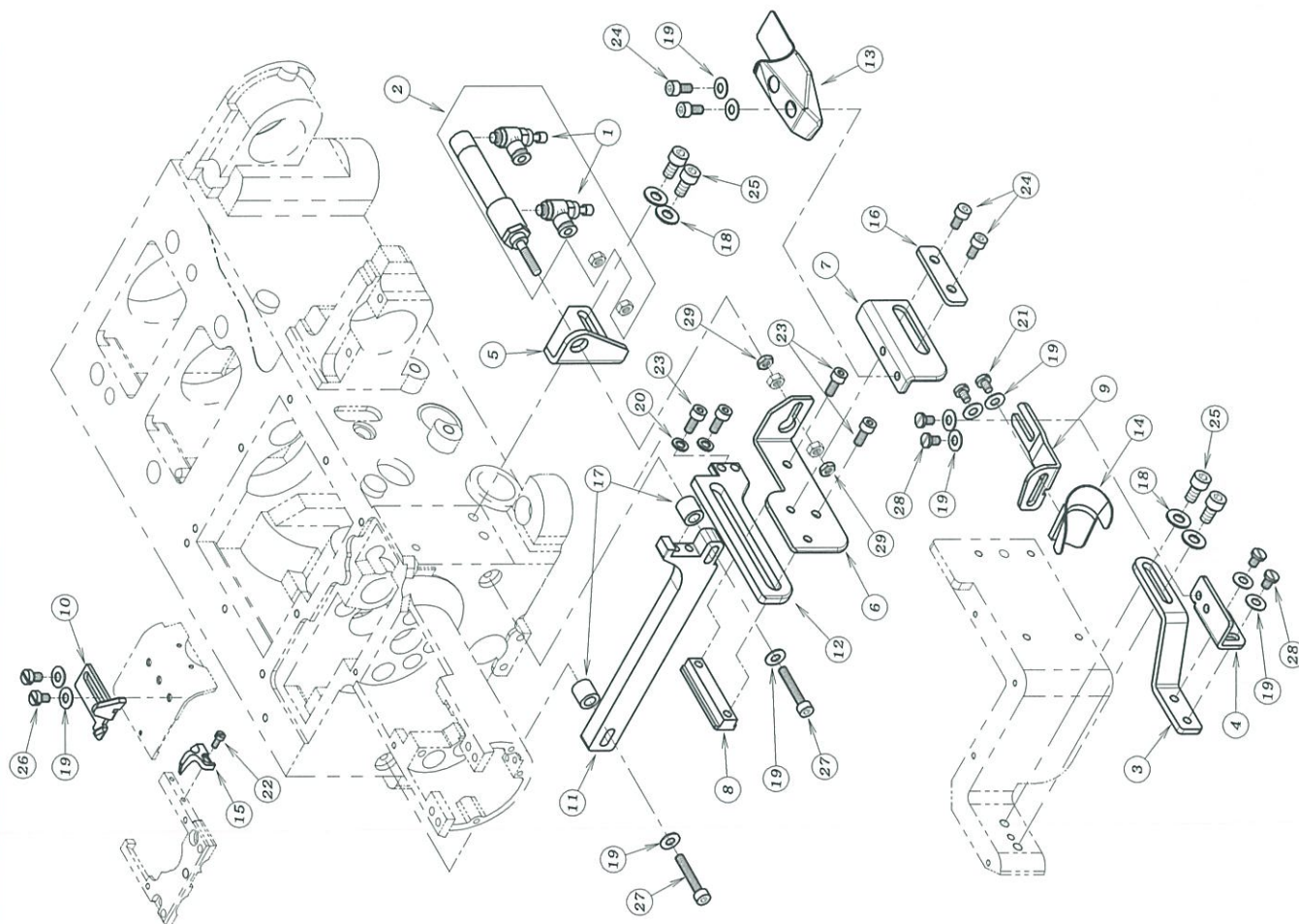
Enclosing accessory box



| REF.NO. | PART NO. | 品 名            | DESCRIPTION           | Q'TY |
|---------|----------|----------------|-----------------------|------|
| 29-01   | 09-571   | 右ガイド           | HEM GUIDE (RIGHT)     | 2    |
| 29-02   | 26-110   | C用ガイド (左)      | GUIDE (L)             | 2    |
| 29-03   | 26-111   | C用ガイド (右)      | GUIDE (R)             | 1    |
| 29-04   | 26-112   | ガイド (左) (Aタイプ) | HEMMING GUIDE (LEFT)  | 1    |
| 29-05   | 26-113   | ガイド (右) (Aタイプ) | HEMMING GUIDE (RIGHT) | 1    |
| 29-06   | 26-123   | 生地カイト' (左)     | GUIDE (L)             | 1    |
| 29-07   | 26-124   | 生地カイト' (R)     | GUIDE (R)             | 1    |
| 29-08   | 27-119   | シリンダーカバー       | COVER                 | 1    |
| 29-09   | 75-468   | ワッシャ           | WASHER                | 6    |
| 29-10   | 79-104   | 板バネ (後)        | SPRING                | 1    |
| 29-11   | 79-107   | 板バネ (前)        | SPRING                | 1    |
| 29-12   | 85-101   | ネジ'            | SCREW                 | 4    |
| 29-13   | 85-618   | ネジ'            | SCREW                 | 2    |
| 29-14   | 87-102   | ネジ'            | SCREW                 | 4    |
| 29-15   | 87-284   | ネジ'            | SCREW                 | 6    |

# 30. SJF専用部品

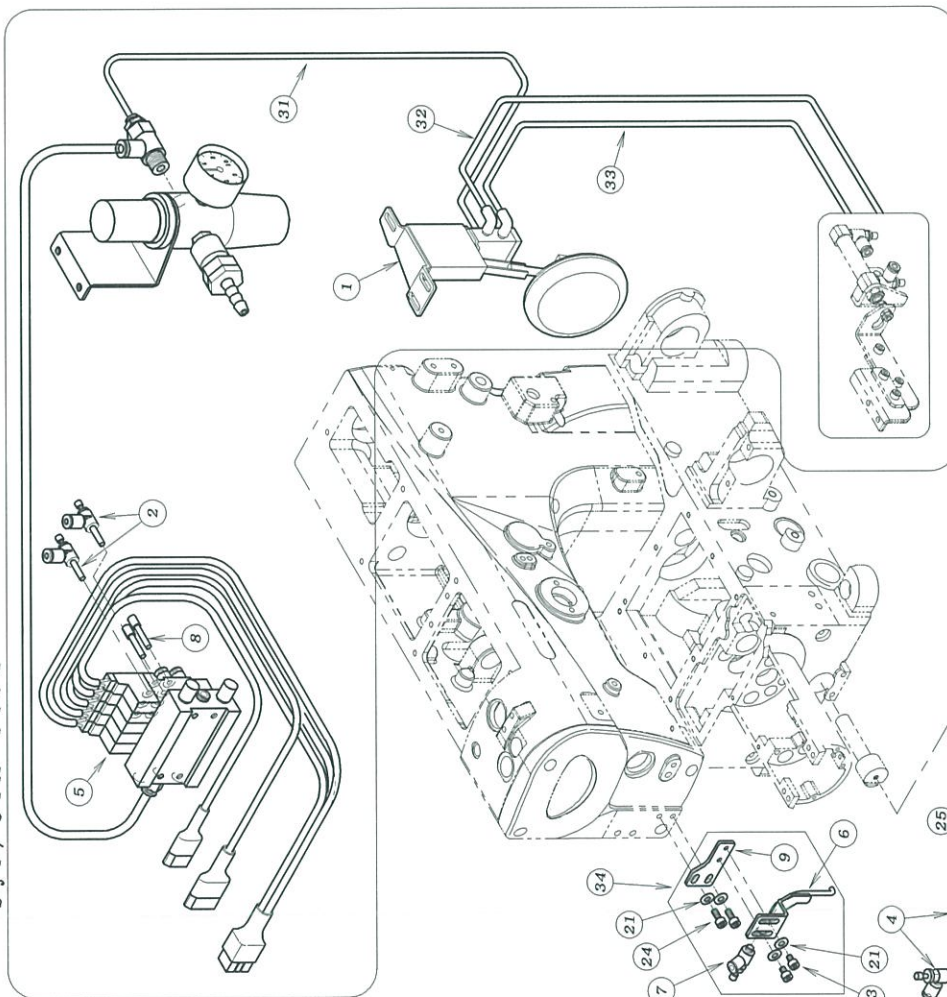
## EXCLUSIVE PARTS FOR MODEL SJF



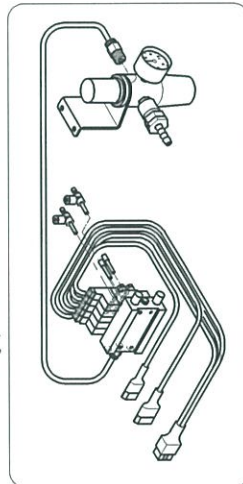
| REF. NO. | PART NO. | 品 名         | DESCRIPTION        | Q'TY |
|----------|----------|-------------|--------------------|------|
| 30-01    | 05-481   | スピードコントローラー | SPEED CONTROLLER   | 2    |
| 30-02    | 05-599   | エアシリンダー     | AIR CYLINDER       | 1    |
| 30-03    | 09-572   | ブラケット       | BRACKET            | 1    |
| 30-04    | 09-573   | ブラケット       | BRACKET            | 1    |
| 30-05    | 09-574   | ブラケット       | BRACKET            | 1    |
| 30-06    | 09-575   | ブラケット       | BRACKET            | 1    |
| 30-07    | 09-576   | ブラケット       | BRACKET            | 1    |
| 30-08    | 09-578   | スライトプレート    | SLIDE PLATE        | 1    |
| 30-09    | 09-581   | ブラケット       | BRACKET            | 1    |
| 30-10    | 09-582   | ガイド (右)     | GUIDE              | 1    |
| 30-11    | 09-583   | ブラケット       | BRACKET            | 1    |
| 30-12    | 09-584   | ブラケット       | BRACKET            | 1    |
| 30-13    | 09-585   | ホルダー (左)    | GUIDE (LEFT)       | 1    |
| 30-14    | 09-586   | ホルダー (右)    | GUIDE (RIGHT)      | 1    |
| 30-15    | 26-110   | C用ガイド (左)   | GUIDE (L)          | 1    |
| 30-16    | 26-825   | ガイド固定板      | GUIDE FIXING PLATE | 1    |
| 30-17    | 151-145  | スベースカラー     | COLLAR             | 2    |
| 30-18    | 75-453   | ワッシャー       | WASHER             | 4    |
| 30-19    | 75-455   | ワッシャー       | WASHER             | 12   |
| 30-20    | 75-468   | ワッシャー       | WASHER             | 2    |
| 30-21    | 84-361   | ネジ          | SCREW              | 2    |
| 30-22    | 87-102   | ネジ          | SCREW              | 1    |
| 30-23    | 87-113   | 六角穴付きボルト    | BOLT               | 4    |
| 30-24    | 87-177   | 六角穴付きボルト    | BOLT               | 4    |
| 30-25    | 87-213   | 六角穴付きボルト    | BOLT               | 4    |
| 30-26    | 87-284   | ネジ          | SCREW              | 2    |
| 30-27    | 87-285   | 六角穴付きボルト    | BOLT               | 2    |
| 30-28    | 87-415   | ネジ          | SCREW              | 4    |
| 30-29    | 88-147   | 六角ナット       | NUT                | 2    |



SJF/UTA TYPE



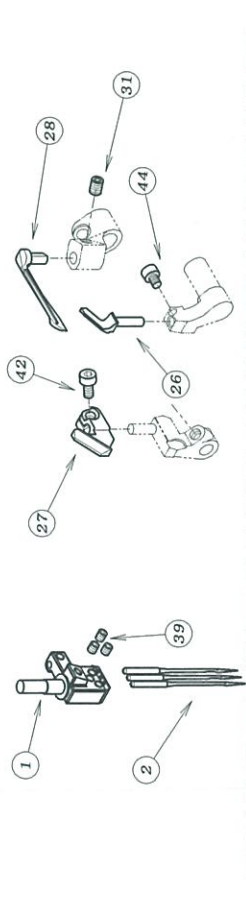
SJ/UTA TYPE



| REF. NO. | PART NO. | 品 名              | DESCRIPTION                 | Q'TY |
|----------|----------|------------------|-----------------------------|------|
| 31-01    | 00-6118  | 膝スイッチセット         | KNEE SWITCH ASS'Y           | 1    |
| 31-02    | 05-221   | スピード・コントローラー     | SPEED CONTROLLER            | 2    |
| 31-03    | 05-222   | エア・シリンダー         | CYLINDER                    | 1    |
| 31-04    | 05-481   | スピード・コントローラー     | SPEED CONTROLLER            | 2    |
| 31-05    | 05-969   | 電磁弁5連セット         | SOLENOID VALVE ASSEMBLY     | 1    |
| 31-06    | 06-283   | エア・ノズル           | AIR NOZZLE                  | 1    |
| 31-07    | 06-559   | スピード・コントローラー     | SPEED CONTROLLER            | 1    |
| 31-08    | 06-597   | プラグ              | PLUG                        | 2    |
| 31-09    | 27-236   | エア・ノズル取付プレート     | BRACKET                     | 1    |
| 31-10    | 51-141   | 目盛板              | FEED GRADUATIONS            | 1    |
| 31-11    | 51-142   | コンチ・ンスレハ         | CONDENSE LEVER              | 1    |
| 31-12    | 51-143   | シリンダー・先端金具       | BLOCK                       | 1    |
| 31-13    | 51-144   | 安全カバー            | COVER                       | 1    |
| 31-14    | 51-145   | スベ・スカラー          | COLLAR                      | 3    |
| 31-15    | 51-805   | スベ・スカラー          | COLLAR                      | 2    |
| 31-16    | 51-806   | 皿ハネ              | SPRING                      | 1    |
| 31-17    | 51-807   | 皿ネジ              | SCREW                       | 1    |
| 31-18    | 51-808   | ナット              | NUT                         | 1    |
| 31-19    | 51-846   | ストップハ            | STOPPER                     | 1    |
| 31-20    | 75-453   | ワッシャ             | WASHER                      | 2    |
| 31-21    | 75-455   | ワッシャ             | WASHER                      | 4    |
| 31-22    | 75-456   | ワッシャ             | WASHER                      | 1    |
| 31-23    | 87-092   | 六角穴付きボルト         | BOLT                        | 2    |
| 31-24    | 87-113   | 六角穴付きボルト         | BOLT                        | 2    |
| 31-25    | 87-177   | 六角穴付きボルト         | BOLT                        | 2    |
| 31-26    | 87-252   | 六角穴付きボルト         | BOLT                        | 2    |
| 31-27    | 87-303   | 六角穴付き皿ボルト        | SCREW                       | 2    |
| 31-28    | 87-304   | 六角穴付き皿ボルト        | SCREW                       | 1    |
| 31-29    | 87-481   | ブラマインベ小ねじ        | SCREW                       | 2    |
| 31-30    | 88-157   | ナット              | NUT                         | 2    |
| 31-31    | 105-932  | エアチューブ φ4x1500mm | AIR TUBE φ4x1500mm          | 1    |
| 31-32    | 105-938  | エアチューブ φ4x450mm  | AIR TUBE φ4x450mm           | 1    |
| 31-33    | 105-939  | エアチューブ φ4x500mm  | AIR TUBE φ4x500mm           | 1    |
| 31-34    | 100-8036 | 糸引き装置 (エア)       | WIPER MECHANISM ASS'Y (AIR) | 1    |

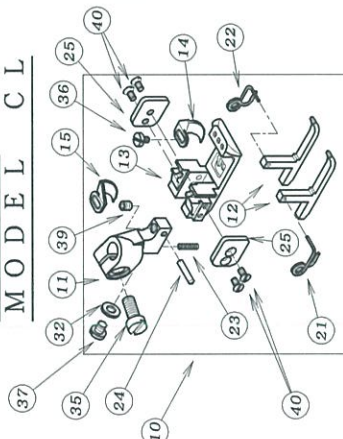


## 32. ゲージパーツ GAUGE PARTS (1)



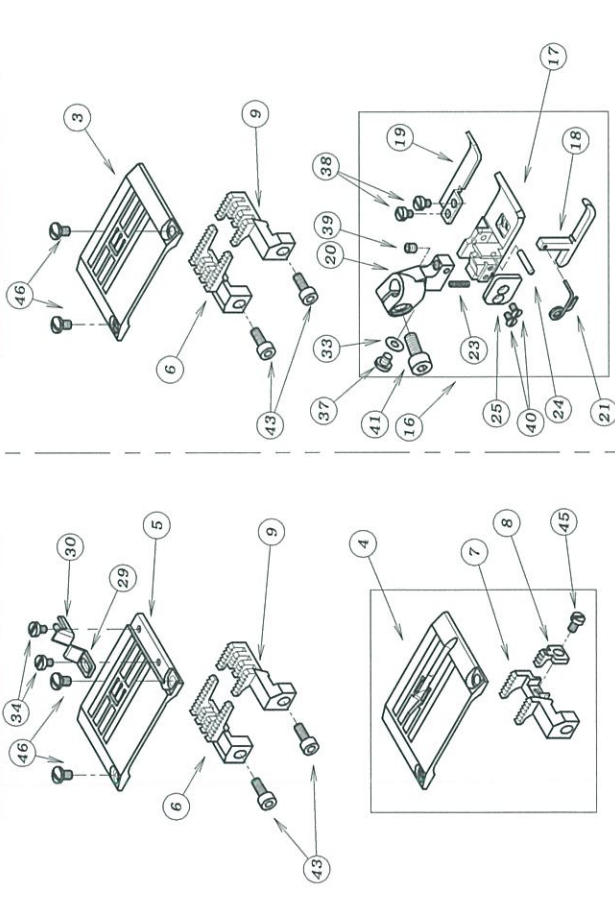
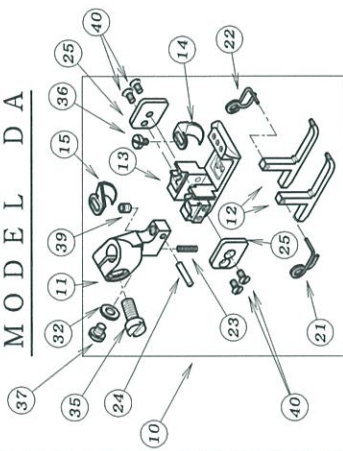
CLタイプ

MODEL CL



DAタイプ

MODEL DA



同梱部品

Enclosing accessory box

同梱部品

Enclosing accessory box

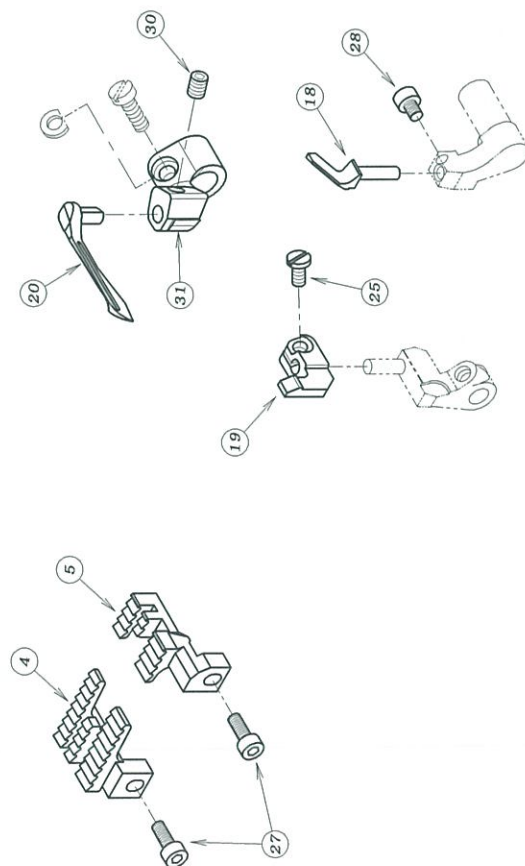
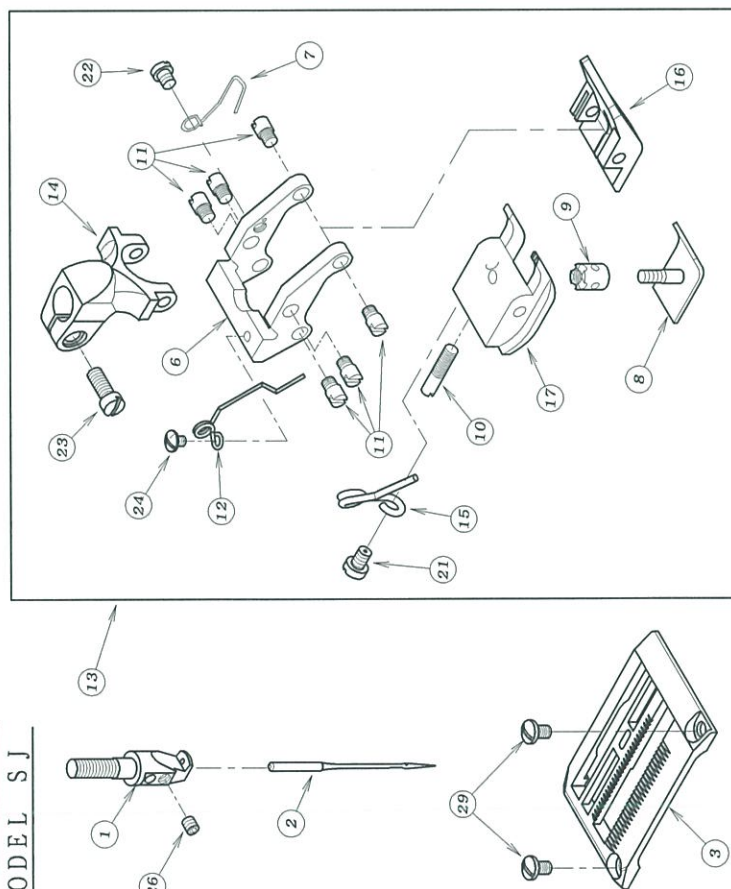
| REF. NO. | PART NO.  | 品 名               | DESCRIPTION        | Q'TY |
|----------|-----------|-------------------|--------------------|------|
| 32-01    | *         | 針株                | NEEDLE HOLDER      | 1    |
| 32-02    | 13-0110-6 | 針 (UYX128GAS #11) | NEEDLE             | 3    |
| 32-03    | *         | 針板DA              | NEEDLE PLATE       | 1    |
| 32-04    | *         | 針板C               | NEEDLE PLATE       | 1    |
| 32-05    | *         | 針板CL              | NEEDLE PLATE       | 1    |
| 32-06    | *         | 主送り歯              | MAIN FEED DOG      | 2    |
| 32-07    | *         | 前送り歯              | FRONT FEED DOG     | 1    |
| 32-08    | *         | 補助送り歯             | FRONT FEED DOG     | 1    |
| 32-09    | *         | 前送置               | FRONT FEED DOG     | 2    |
| 32-10    | *         | 押えセット             | PRESSER FOOT ASS'Y | 2    |
| 32-11    | 17-7680-A | 押え足ホース            | SHANK              | 2    |
| 32-12    | 17-7680-B | 補助押え足             | GUIDE              | 4    |
| 32-13    | *         | 押え足               | BOTTOM             | 2    |
| 32-14    | 17-7680-K | 生地カ'イト*           | GUIDE              | 2    |
| 32-15    | 17-7680-L | 生地カ'イト*           | GUIDE              | 2    |
| 32-16    | *         | 押えセット             | PRESSER FOOT ASS'Y | 1    |
| 32-17    | *         | 押え足               | BOTTOM             | 1    |
| 32-18    | 17-8120-E | 補助押え足             | GUIDE              | 1    |
| 32-19    | 17-8120-F | 布押え (幅狭)          | GUIDE PLATE (S)    | 1    |
| 32-20    | 17-8190-A | 押え足ホース            | SHANK              | 1    |
| 32-21    | 17-8190-D | 補助押え足ハ'ネ (左)      | SPRING (LEFT)      | 3    |
| 32-22    | 17-8190-E | 補助押え足ハ'ネ (右)      | SPRING (RIGHT)     | 2    |
| 32-23    | 17-8190-F | ハ'ネ               | SPRING             | 3    |
| 32-24    | 17-8190-G | ピン                | PIN                | 3    |
| 32-25    | 17-8190-J | カ'イト* フ'レート       | GUIDE PLATE        | 5    |
| 32-26    | 18-104    | 針ガイド              | NEEDLE GUARD       | 1    |
| 32-27    | 18-122    | 針受け               | NEEDLE GUARD       | 1    |
| 32-28    | 19-525    | ルーバー              | LOOPER             | 1    |
| 32-29    | 26-123    | 生地カ'イト* (左)       | GUIDE (L)          | 1    |
| 32-30    | 26-124    | 生地カ'イト* (R)       | GUIDE (R)          | 1    |
| 32-31    | 187-181   | ネジ                | SCREW              | 1    |
| 32-32    | 75-228    | ワッシャ              | WASHER             | 2    |
| 32-33    | 75-441    | ワッシャ              | WASHER             | 1    |
| 32-34    | 85-618    | ネジ                | SCREW              | 2    |
| 32-35    | 87-034    | ネジ                | SCREW              | 2    |
| 32-36    | 87-035    | ネジ                | SCREW              | 2    |
| 32-37    | 87-083    | ネジ                | SCREW              | 3    |
| 32-38    | 87-093    | ネジ                | SCREW              | 2    |
| 32-39    | 87-104    | ネジ                | SCREW              | 2    |
| 32-40    | 87-107    | ネジ                | SCREW              | 6    |
| 32-41    | 87-113    | 六角穴付きボルト          | BOLT               | 10   |
| 32-42    | 87-123    | 六角穴付きボルト          | BOLT               | 1    |
| 32-43    | 87-124    | ネジ                | SCREW              | 4    |
| 32-44    | 87-142    | ネジ                | SCREW              | 1    |
| 32-45    | 87-157    | ネジ                | SCREW              | 1    |
| 32-46    | 87-166    | ネジ                | SCREW              | 4    |



# 33. ゲージパーツ GAUGE PARTS (2)

SJタイプ

MODEL SJ



| REF. NO. | PART NO.  | 品 名           | DESCRIPTION           | Q'TY |
|----------|-----------|---------------|-----------------------|------|
| 33-01    | 12-877    | 針株            | NEEDLE HOLDER         | 1    |
| 33-02    | 13-1510-5 | 針 (TVX5 #21)  | NEEDLE                | 1    |
| 33-03    | 14-556    | 針板            | NEEDLE PLATE          | 1    |
| 33-04    | 15-556    | 後送り歯          | FEED DOG (REAR)       | 1    |
| 33-05    | 15-557    | 前送り歯          | FEED DOG (FRONT)      | 1    |
| 33-06    | 17-5530-C | 押え足ホルダ -      | BOTTOM HOLDER         | 1    |
| 33-07    | 17-5530-G | 押え足ハネ         | SPRING                | 1    |
| 33-08    | 17-5530-H | 押えカイト' 足      | GUIDE                 | 1    |
| 33-09    | 17-5530-I | 押えカイト' 足調節ナット | NUT                   | 1    |
| 33-10    | 17-5530-J | 押え足固定ネジ       | SCREW                 | 1    |
| 33-11    | 17-5530-K | ネジ            | SCREW                 | 6    |
| 33-12    | 17-5530-L | 押え足後ハネ        | SPRING                | 1    |
| 33-13    | 17-5560-1 | トラクター押えセット図   | PRESSER FOOT ASSEMBLY | 1    |
| 33-14    | 17-5560-A | 押えボス          | SHANK                 | 1    |
| 33-15    | 17-5560-D | 押え足ガイド足ハネ     | SPRING                | 1    |
| 33-16    | 17-5560-E | 押え足 (前)       | BOTTOM (FRONT)        | 1    |
| 33-17    | 17-8000-A | 押え足 (後)       | BOTTOM (R)            | 1    |
| 33-18    | 18-104    | 針ガイド          | NEEDLE GUARD          | 1    |
| 33-19    | 18-551    | 針受け (後)       | NEEDLE GUARD (REAR)   | 1    |
| 33-20    | 19-580    | ルーパー          | LOOPER                | 1    |
| 33-21    | 184-161   | ネジ            | SCREW                 | 1    |
| 33-22    | 184-167   | ネジ            | SCREW                 | 1    |
| 33-23    | 184-376   | ネジ            | SCREW                 | 1    |
| 33-24    | 185-611   | ネジ            | SCREW                 | 1    |
| 33-25    | 187-090   | ネジ            | SCREW                 | 1    |
| 33-26    | 187-104   | ネジ            | SCREW                 | 1    |
| 33-27    | 187-124   | ネジ            | SCREW                 | 2    |
| 33-28    | 187-142   | ネジ            | SCREW                 | 1    |
| 33-29    | 187-166   | ネジ            | SCREW                 | 2    |
| 33-30    | 187-181   | ネジ            | SCREW                 | 1    |
| 33-31    | 19-570    | ルーパー台         | LOOPER HOLDER         | 1    |

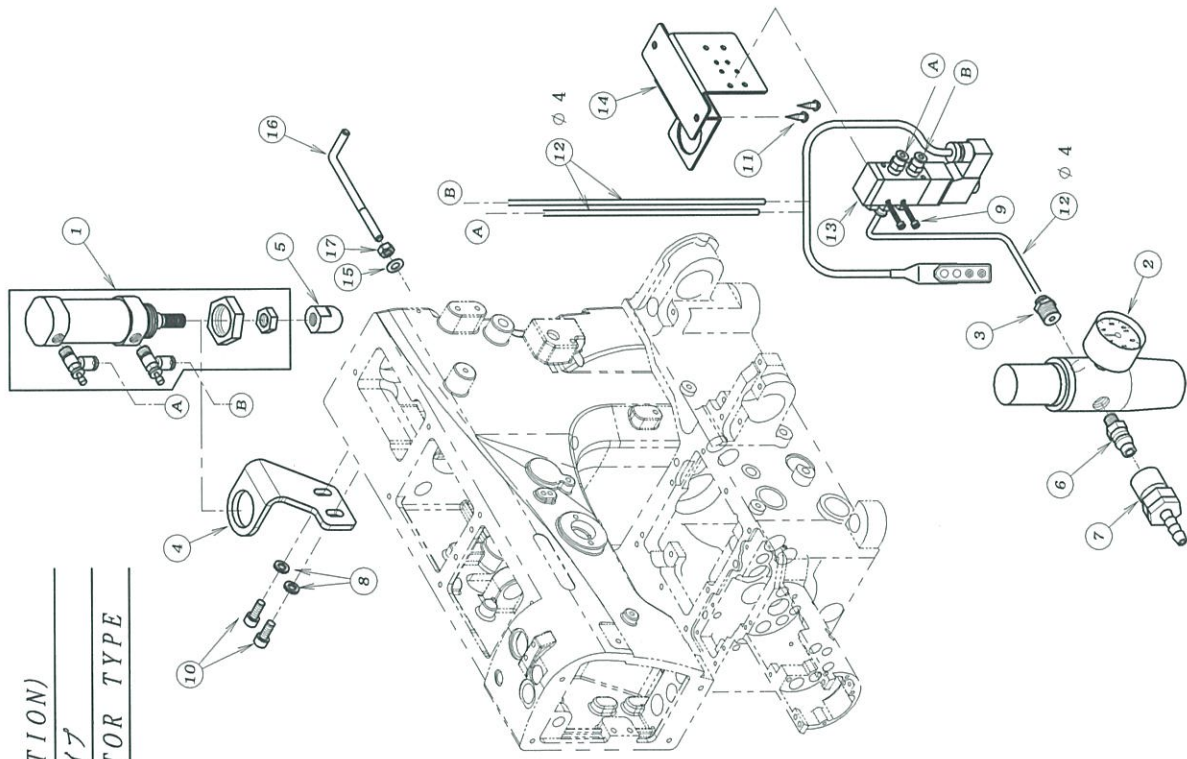
34. 押え揚げ装置 (エア式) FL-8

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 |
|----------|-----------|----------------|----------------------|------|
| 34-01    | 00-6082   | 押え揚げシリンダーセット   | AIR CYLINDER ASS'Y   | 1    |
| 34-02    | 05-2120-A | フィドルレギュレータ     | REGULATOR            | 1    |
| 34-03    | 05-2117   | レギュレータ用継手      | JOINT                | 1    |
| 34-04    | 77-032    | 押え揚げシリンダーブラケット | BRACKET              | 1    |
| 34-05    | 05-897    | シリンダー作動チップ     | CHIP                 | 1    |
| 34-06    | 06-516    | カプラメス          | CONNECTOR            | 1    |
| 34-07    | 06-517    | カプラオス          | CONNECTOR            | 1    |
| 34-08    | 75-552    | ワッシャ           | WASHER               | 2    |
| 34-09    | 87-438    | 六角穴付ボルト        | SCREW                | 2    |
| 34-10    | 87-171    | 六角穴付ボルト        | SCREW                | 2    |
| 34-11    | 87-902    | 木ネジ            | SCREW                | 2    |
| 34-12    | 05-979    | チューブφ4x700mm   | TUBE (φ4x700L)       | 3    |
| 34-13    | 05-982    | 電磁弁セット         | SOLENOID VALVE ASS'Y | 1    |
| 34-14    | 05-644    | 電磁弁取付板         | BRACKET              | 1    |
| 34-15    | 75-452    | ワッシャ           | WASHER               | 1    |
| 34-16    | 05-292    | ボジショナーバー       | BAR                  | 1    |
| 34-17    | 88-166    | ナット            | NUT                  | 1    |



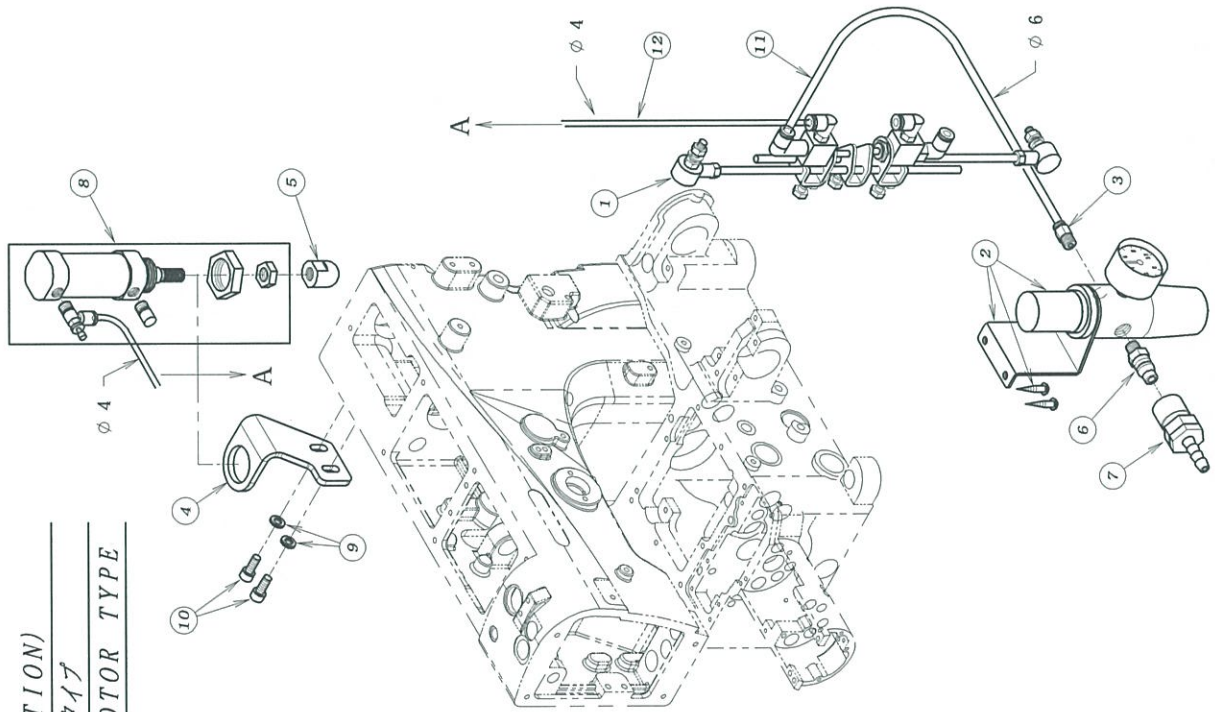
35. 押え揚げ装置 (エア-式) FL-9

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 |
|----------|----------|----------------------------------------------|-------------------------------------------------|------|
| 35-01    | 00-8040  | 吸込み押え揚げ用バルブセット                               | TREADLE AIR SWITCH ASS'Y                        | 1    |
| 35-02    | 05-212   | フィルタレギュレータ                                   | REGULATOR                                       | 1    |
| 35-03    | 05-218   | レギュレータ-用継手                                   | JOINT                                           | 1    |
| 35-04    | 77-032   | 押え揚げシリンダーブラケット                               | BRACKET                                         | 1    |
| 35-05    | 05-897   | シリンダー-作動チップ                                  | CHIP                                            | 1    |
| 35-06    | 06-516   | カプラメス                                        | CONNECTOR                                       | 1    |
| 35-07    | 06-517   | カプラオス                                        | CONNECTOR                                       | 1    |
| 35-08    | 00-6130  | 押え揚げシリンダー-セット                                | AIR CYLINDER ASS'Y                              | 1    |
| 35-09    | 75-552   | ワッシャ                                         | WASHER                                          | 2    |
| 35-10    | 87-171   | 六角穴付ボルト                                      | SCREW                                           | 1    |
| 35-11    | 05-486   | チューブ<math>\phi 6 \times 1000\text{mm}</math> | TUBE (<math>\phi 6 \times 1000\text{mm}</math>) | 1    |
| 35-12    | 05-932   | チューブ<math>\phi 4 \times 1500\text{mm}</math> | TUBE (<math>\phi 4 \times 1500\text{mm}</math>) | 1    |

# 36. ゲージパーツ表 GAUGE PARTS LIST

| 機種<br>MODEL | タイプ<br>TYPE | 針数<br>NEEDLE | ゲージ<br>GAUGE | 針株<br>NEEDLE<br>HOLDER | 押え組<br>PRESSER<br>FOOT ASS'Y | 後送り歯<br>FEED<br>DOG<br>(REAR) | 前送り歯<br>FEED<br>DOG<br>(FRONT) | 針板<br>NEEDLE<br>PLATE | ルーパー<br>LOOPER | 上飾り<br>ルーパー<br>SPREADER | 針受 (後)<br>NEEDLE<br>GUARD<br>(REAR) | 針ガイド (前)<br>NEEDLE<br>GUARD<br>(FRONT) |
|-------------|-------------|--------------|--------------|------------------------|------------------------------|-------------------------------|--------------------------------|-----------------------|----------------|-------------------------|-------------------------------------|----------------------------------------|
| NC          | CL          | 3            | 7/32         | 12-0260-1              | 17-7680-1                    | 15-612                        | 15-620<br>★15-618              | 14-619<br>★14-617     | 19-525         | 19-751<br>(None<br>UT)  | 18-122<br><br>18-104                | 18-104                                 |
|             |             |              | 1/4          | 12-0270-1              | 17-7690-1                    | 15-612                        | 15-620<br>★15-618              | 14-620<br>★14-618     |                | 19-505<br>(UT)          |                                     |                                        |
|             |             |              | 7/32         | 12-0260-1              | 17-7680-1<br>★17-8120-1      | 15-612                        | 15-620                         | 14-184                |                |                         |                                     |                                        |
|             |             |              | 1/4          | 12-0270-1              | 17-7690-1<br>★17-8130-1      | 15-612                        | 15-620                         | 14-185                |                |                         |                                     |                                        |
|             | SJ<br>SJF   | 1            |              | 12-8770-1              | 17-5560-1                    | 15-556                        | 15-557                         | 14-556                | 19-580         |                         | 18-551                              |                                        |
|             |             |              |              |                        |                              |                               |                                |                       |                |                         |                                     |                                        |

\*★同梱部品です。 ★Enclosing accessory box

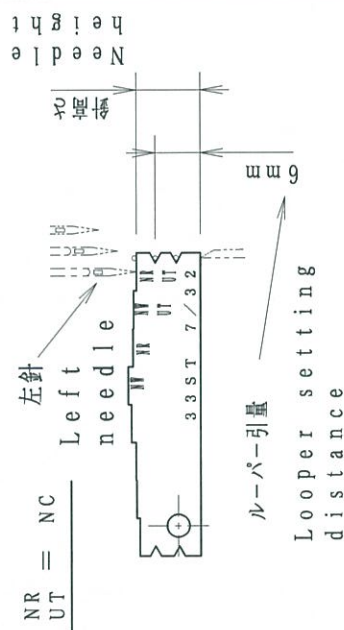


### 37. 特注針板パーツ表      EXTRA NEEDLE PLATE PARTS LIST

| 機種<br>MODEL | タイプ<br>TYPE | 針数<br>NEEDLE | ゲージ<br>GAUGE | 標準<br>Standard<br>針板<br>NEEDLE<br>PLATE | かまぼこ防止用タイプ<br>For soft<br>stitch formation<br>針板<br>NEEDLE<br>PLATE |
|-------------|-------------|--------------|--------------|-----------------------------------------|---------------------------------------------------------------------|
| NC          | CL          | 3            | 7/32         | 14-619                                  | 14-619U                                                             |
|             |             |              | 1/4          | 14-620                                  | 14-620U                                                             |

### 特注パーツ EXTRA PARTS

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





| REF. NO.       | PART NO. NO. | 品番 |
|----------------|--------------|----|
| 25-0200-6082   | 31-0305-222  |    |
| 34-0100-6082   | 19-1805-226  |    |
| 19-3900-6083   | 22-0105-226  |    |
| 19-1600-6114   | 22-0105-271  |    |
| 20-3000-6115   | 23-0205-271  |    |
| 25-0300-6118   | 22-0205-272  |    |
| 31-0100-6118   | 23-0305-272  |    |
| 35-0800-6130   | 22-0305-273  |    |
| 19-4400-6140   | 22-0405-273  |    |
| 24-2200-8036   | 22-0405-274  |    |
| 28-2500-8036   | 23-0505-274  |    |
| 31-3400-8036   | 22-0505-275  |    |
| 35-0100-8040   | 23-0605-275  |    |
| 24-2300-8045   | 22-0605-276  |    |
| 22-3300-8096   | 23-0705-276  |    |
| 23-0100-8097   | 22-0705-277  |    |
| 25-0100-8097   | 23-0805-277  |    |
| 01-0102-119    | 22-0805-278  |    |
| 14-0104-502    | 22-0905-279  |    |
| 14-0204-502    | 22-1005-280  |    |
| 14-0304-507    | 22-1105-281  |    |
| 14-0404-508    | 22-1205-282  |    |
| 20-2305-045    | 23-0905-283  |    |
| 19-2405-045    | 23-1005-284  |    |
| 18-0105-051    | 23-1105-285  |    |
| 18-0205-052    | 23-1205-286  |    |
| 18-0305-053    | 23-1305-287  |    |
| 18-0405-054    | 23-1405-288  |    |
| 18-0505-055    | 23-1505-289  |    |
| 18-0605-056    | 23-1605-290  |    |
| 18-0705-058    | 23-1705-291  |    |
| 18-0805-059    | 23-1805-292  |    |
| 18-0905-060    | 34-1605-292  |    |
| 18-0905-061    | 19-1905-294  |    |
| 18-1005-061    | 20-1105-294  |    |
| 18-1105-062    | 15-0105-404  |    |
| 18-1205-063    | 22-1305-481  |    |
| 18-1305-066    | 30-0105-481  |    |
| 18-1405-067    | 31-0405-481  |    |
| 18-1505-070    | 19-4305-482  |    |
| 18-1605-071    | 19-4205-484  |    |
| 18-1705-072    | 35-1105-486  |    |
| 18-1805-075    | 30-0205-599  |    |
| 19-0305-205    | 34-1405-644  |    |
| 25-0405-207    | 19-0205-646  |    |
| 25-0705-212    | 19-1405-647  |    |
| 35-0205-212    | 18-1905-658  |    |
| 25-1705-2120-A | 18-2105-794  |    |
| 34-0205-2120-A | 18-2305-822  |    |
| 25-1805-2120-B | 19-0605-828  |    |
| 25-0805-214    | 20-0505-828  |    |
| 25-0905-217    | 19-3005-829  |    |
| 24-0305-217    | 20-2105-829  |    |
| 35-0305-218    | 19-0405-842  |    |
| 19-1105-220    | 20-0305-842  |    |
| 19-4505-221    | 21-0105-850  |    |
| 31-0205-221    | 21-0205-853  |    |
|                | 21-0205-853  |    |

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|-------------|----------------|----|
| 23-1805-881 | 24-0206-491    |    |
| 18-2405-882 | 24-0306-492    |    |
| 24-0406-493 | 24-0406-493    |    |
| 18-2505-894 | 24-0506-494    |    |
| 25-0605-897 | 24-0606-495    |    |
| 34-0505-897 | 24-0706-496    |    |
| 24-0806-497 | 24-0806-497    |    |
| 24-0906-498 | 24-0906-498    |    |
| 25-1106-516 | 25-1106-516    |    |
| 34-0606-516 | 34-0606-516    |    |
| 35-0606-516 | 35-0606-516    |    |
| 23-1206-517 | 33-1206-517    |    |
| 35-0706-517 | 35-0706-517    |    |
| 24-1006-559 | 24-1006-559    |    |
| 31-0706-559 | 31-0706-559    |    |
| 25-1606-580 | 25-1606-580    |    |
| 19-1706-597 | 19-1706-597    |    |
| 31-0806-597 | 31-0806-597    |    |
| 20-1305-911 | 20-1305-911    |    |
| 20-1405-912 | 20-1405-912    |    |
| 19-3205-913 | 19-3205-913    |    |
| 20-2305-913 | 20-2305-913    |    |
| 19-0105-924 | 19-0105-924    |    |
| 19-0905-927 | 23-2706-602    |    |
| 20-0805-927 | 22-1606-603    |    |
| 25-1305-932 | 23-2806-603    |    |
| 31-3105-932 | 22-1706-604    |    |
| 35-1205-932 | 23-2906-604    |    |
| 25-1405-938 | 22-1806-605    |    |
| 31-3205-938 | 23-3006-605    |    |
| 25-1505-939 | 22-1906-608    |    |
| 31-3305-939 | 23-3106-608    |    |
| 21-0305-955 | 22-2006-630    |    |
| 21-0405-956 | 23-3206-630    |    |
| 21-0505-957 | 19-3606-927    |    |
| 15-0305-958 | 20-2706-928    |    |
| 21-0605-958 | 22-3406-928    |    |
| 21-0705-961 | 23-3306-928    |    |
| 21-3205-962 | 17-0107-008    |    |
| 21-3305-963 | 29-0109-571    |    |
| 19-4605-969 | 30-0309-572    |    |
| 19-4705-970 | 30-0409-573    |    |
| 34-1205-979 | 30-0609-574    |    |
| 34-1305-982 | 30-0709-576    |    |
| 17-0106-238 | 30-0809-578    |    |
| 12-0106-239 | 30-0909-580    |    |
| 24-0106-283 | 30-1009-582    |    |
| 31-0606-283 | 30-1109-583    |    |
| 20-0206-336 | 30-1209-584    |    |
| 23-2006-367 | 30-1309-585    |    |
| 23-2106-371 | 30-1409-586    |    |
| 23-2206-372 | 27-0921-014    |    |
| 23-2306-374 | 27-0821-025    |    |
| 23-2406-375 | 27-0221-088    |    |
| 23-2506-376 | 17-0221-088    |    |
| 23-2606-446 | 17-0321-099    |    |
|             | 28-0113-0110-6 |    |
|             | 32-0213-0110-6 |    |
|             | 28-0213-1510-5 |    |

| REF. NO.       | PART NO. NO.   | 品番 |
|----------------|----------------|----|
| 33-0213-1510-5 | 03-0121-138W   |    |
| 02-0114-113    | 03-0221-150W   |    |
| 02-3014-143    | 03-0321-160W   |    |
| 33-0314-556    | 28-0521-242    |    |
| 33-0415-556    | 16-0121-632W   |    |
| 33-0515-557    | 02-0421-640    |    |
| 33-0617-5530-C | 03-0421-643    |    |
| 33-0717-5530-G | 01-0421-699    |    |
| 33-0817-5530-H | 03-0621-714    |    |
| 33-0917-5530-I | 01-0521-8530-I |    |
| 33-1017-5530-J | 15-0423-018    |    |
| 33-1117-5530-K | 01-0623-041    |    |
| 33-1217-5530-L | 01-0723-041    |    |
| 33-1317-5560-A | 12-0323-063    |    |
| 33-1417-5560-A | 09-0223-125    |    |
| 33-1517-5560-D | 17-0423-126    |    |
| 32-1117-7680-A | 02-0523-127    |    |
| 32-1217-7680-B | 17-0523-129    |    |
| 32-1317-7680-K | 02-0623-130    |    |
| 32-1417-7680-L | 09-0323-131    |    |
| 32-1517-7680-L | 10-0123-192    |    |
| 32-1617-8000-A | 08-0623-193    |    |
| 02-178000-A    | 10-0223-287    |    |
| 02-1817-8120-E | 01-0823-287    |    |
| 32-1917-8120-F | 16-0223-304    |    |
| 32-2017-8190-A | 05-0123-324    |    |
| 32-2117-8190-D | 21-0823-324    |    |
| 32-2217-8190-E | 10-0323-341    |    |
| 32-2317-8190-F | 17-0623-366    |    |
| 32-2417-8190-G | 01-0923-427    |    |
| 32-2517-8190-J | 02-0823-427    |    |
| 32-2618-104    | 01-1023-501    |    |
| 33-1818-104    | 02-0923-501    |    |
| 07-6318-109    | 01-1123-504    |    |
| 07-0418-121    | 16-0323-506    |    |
| 32-2718-122    | 16-0423-508    |    |
| 32-2819-551    | 27-0223-509    |    |
| 08-0119-105    | 03-0723-512    |    |
| 08-0219-106    | 02-2123-512    |    |
| 08-0319-107    | 23-3423-512    |    |
| 14-0519-505    | 03-0823-513    |    |
| 08-0419-507    | 08-0723-515    |    |
| 08-0519-509    | 02-1123-528    |    |
| 32-2819-525    | 07-0523-531    |    |
| 08-2819-570    | 02-1223-533    |    |
| 33-3119-570    | 01-1223-538    |    |
| 33-3219-580    | 09-0423-554    |    |
| 14-2319-751    | 17-0823-558    |    |
| 32-2819-752    | 17-0923-560    |    |
| 08-2819-576    | 17-1023-562    |    |
| 33-2019-580    | 12-0423-567    |    |
| 33-2119-582    | 28-0420-6200   |    |
| 30-1309-585    | 28-0520-6200   |    |
| 30-1409-586    | 27-0921-014    |    |
| 30-1509-587    | 27-0821-025    |    |
| 30-1609-588    | 27-0121-027    |    |
| 30-1709-589    | 17-0221-088    |    |
| 30-1809-590    | 17-0321-099    |    |
| 30-1909-591    | 28-0113-0110-6 |    |
| 30-2009-592    | 32-0213-0110-6 |    |
| 30-2109-593    | 28-0213-1510-5 |    |

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| 05-19-523W-3  | 05-19-523W-3  |    |
| 05-40-40-7510 | 05-40-40-7510 |    |
| 21-40-40-7510 | 21-40-40-7510 |    |
| 05-20-40-7520 | 05-20-40-7520 |    |
| 21-41-40-7520 | 21-41-40-7520 |    |
| 04-04-41-021  | 04-04-41-021  |    |
| 13-01-41-021  | 13-01-41-021  |    |
| 04-05-41-022  | 04-05-41-022  |    |
| 11-03-41-102  | 11-03-41-102  |    |
| 05-02-41-104  | 05-02-41-104  |    |
| 21-09-41-104  | 21-09-41-104  |    |
| 05-03-41-105  | 05-03-41-105  |    |
| 21-10-41-105  | 21-10-41-105  |    |
| 05-04-41-106  | 05-04-41-106  |    |
| 21-11-41-106  | 21-11-41-106  |    |
| 05-05-41-115  | 05-05-41-115  |    |
| 21-12-41-115  | 21-12-41-115  |    |
| 05-06-41-117  | 05-06-41-117  |    |
| 21-36-41-117  | 21-36-41-117  |    |
| 11-04-41-155  | 11-04-41-155  |    |
| 13-02-41-155  | 13-02-41-155  |    |
| 05-07-41-501  | 05-07-41-501  |    |
| 21-13-41-501  | 21-13-41-501  |    |
| 05-08-41-502  | 05-08-41-502  |    |
| 21-14-41-502  | 21-14-41-502  |    |
| 13-03-41-504  | 13-03-41-504  |    |
| 05-09-41-509  | 05-09-41-509  |    |
| 21-16-41-509  | 21-16-41-509  |    |
| 05-10-41-518  | 05-10-41-518  |    |
| 21-37-41-514  | 21-37-41-514  |    |
| 05-11-41-518  | 05-11-41-518  |    |
| 21-34-41-519  | 21-34-41-519  |    |
| 21-35-41-525  | 21-35-41-525  |    |
| 05-12-41-526  | 05-12-41-526  |    |
| 21-39-41-526  | 21-39-41-526  |    |
| 05-13-41-527  | 05-13-41-527  |    |
| 21-15-41-527  | 21-15-41-527  |    |
| 05-14-41-701  | 05-14-41-701  |    |
| 21-17-41-701  | 21-17-41-701  |    |
| 05-15-41-702  | 05-15-41-702  |    |
| 21-18-41-702  | 21-18-41-702  |    |
| 28-15-42-002  | 28-15-42-002  |    |
| 27-04-42-501  | 27-04-42-501  |    |
| 27-06-42-501  | 27-06-42-501  |    |
| 27-13-42-507  | 27-13-42-507  |    |
| 27-16-42-508  | 27-16-42-508  |    |
| 27-15-42-509  | 27-15-42-509  |    |
| 28-16-42-706  | 28-16-42-706  |    |
| 11-05-43-338  | 11-05-43-338  |    |
| 11-06-43-344  | 11-06-43-344  |    |
| 11-07-43-348  | 11-07-43-348  |    |
| 11-08-43-349  | 11-08-43-349  |    |
| 11-09-43-519  | 11-09-43-519  |    |
| 11-10-43-568  | 11-10-43-568  |    |
| 13-04-43-568  | 13-04-43-568  |    |
| 04-06-45-031  | 04-06-45-031  |    |
| 13-05-45-032  | 13-05-45-032  |    |



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|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
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| 01-3075-455              | 29-1079-104              | 33-2384-376              | 11-2787-092              | 32-4587-157              | 20-0987-245              | 20-0987-245              | 09-4391-107              |
| 03-1575-455              | 02-2279-106              | 12-2684-463              | 17-4687-092              | 09-3787-166              | 21-3878-245              | 21-3878-245              | 11-3291-108              |
| 04-1975-455              | 03-1779-107              | 05-1784-501              | 24-1487-092              | 02-0387-163              | 23-4987-245              | 23-4987-245              | 11-3391-109              |
| 13-1775-455              | 29-1179-107              | 21-2284-501              | 31-2387-092              | 32-4687-166              | 11-3187-249              | 11-3187-249              | 06-2391-113              |
| 17-4475-455              | 11-2279-108              | 02-2384-502              | 04-2287-092              | 33-2987-166              | 22-3287-252              | 34-0987-438              | 12-4191-264              |
| 24-1275-455              | 11-2279-109              | 08-1984-521              | 17-4787-093              | 01-3787-171              | 23-5087-252              | 04-2887-476              | 10-4491-412              |
| 30-1975-455              | 15-2779-423              | 21-2384-553              | 32-3887-093              | 08-2387-171              | 31-2687-252              | 15-3887-476              | 07-4491-413              |
| 31-2175-455              | 05-1679-514              | 15-2984-561              | 18-3487-095              | 14-1687-171              | 12-3387-253              | 01-3687-477              | 14-2191-416              |
| 22-2275-456              | 21-1979-514              | 21-2484-561              | 04-2387-096              | 15-3987-171              | 15-4287-253              | 02-3287-478              | 12-4291-888              |
| 23-3575-456              | 10-3579-527              | 15-3084-566              | 12-2987-097              | 16-2387-171              | 07-4187-254              | 02-2987-479              | 07-4591-890              |
| 31-2275-456              | 11-2379-534              | 03-2084-572              | 18-3587-098              | 19-2487-171              | 12-3487-254              | 03-2487-481              | 12-4391-894              |
| 08-1375-467              | 13-2379-534              | 21-2584-574              | 04-2287-099              | 20-1687-171              | 15-4387-254              | 04-2987-481              | 07-1691-994              |
| 11-2075-468              | 19-3179-540              | 03-2184-579              | 22-2887-099              | 34-1087-171              | 17-5187-254              | 11-3687-481              | 12-4491-994              |
| 23-3675-468              | 20-2279-540              | 15-3184-581              | 23-4487-099              | 35-1087-171              | 02-1987-258              | 13-2687-481              | 08-2692-233              |
| 29-0975-468              | 21-2079-542              | 08-2084-589              | 29-1487-102              | 07-4287-172              | 07-4287-259              | 19-2687-481              | 21-3093-201              |
| 30-2075-468              | 19-3379-642              | 10-3684-591              | 30-2287-102              | 08-2487-172              | 12-3587-259              | 20-1887-481              | 24-1993-201              |
| 14-1275-502              | 20-2679-642              | 01-3284-661              | 04-2587-104              | 09-3887-172              | 01-4087-264              | 31-2987-481              | 14-2293-202              |
| 13-1875-504              | 03-1879-912              | 15-3384-813              | 09-3187-104              | 10-3787-172              | 10-4287-265              | 01-3887-482              | 15-4793-205              |
| 15-1475-504              | 03-1979-922              | 15-3284-818              | 13-2787-104              | 11-2887-172              | 04-2687-269              | 03-2787-482              | 21-3193-205              |
| 13-1975-505              | 06-0181-023              | 03-2285-101              | 28-1887-104              | 12-3187-172              | 07-4387-270              | 04-3087-482              | 19-3493-211              |
| 13-2075-508              | 06-0281-047              | 29-1285-101              | 32-3987-104              | 14-1787-172              | 17-5287-271              | 05-1887-482              | 20-2593-211              |
| 14-1375-509              | 06-0381-048              | 22-2485-102              | 16-2487-176              | 13-3287-482              | 11-2987-482              | 11-2987-482              | 24-2093-213              |
| 08-1475-513              | 06-0481-076              | 23-3885-102              | 09-3987-177              | 09-3987-177              | 10-4387-482              | 13-3087-482              | 10-4593-402              |
| 08-1575-514              | 06-0581-077              | 22-2585-105              | 07-3387-106              | 10-3887-177              | 12-3687-274              | 19-3787-482              | 27-0393-501              |
| 13-2175-526              | 06-0681-078              | 23-3985-105              | 09-3287-106              | 17-1487-177              | 14-1987-274              | 20-2887-482              | 01-4593-701              |
| 22-2375-526              | 06-0781-079              | 22-2685-106              | 32-4087-107              | 24-1887-177              | 19-1387-274              | 21-2687-482              | 08-2793-717              |
| 27-0675-527              | 06-0881-086              | 23-4085-106              | 12-3087-112              | 30-2487-177              | 20-1787-274              | 22-3587-482              | 24-2193-717              |
| 27-1475-535              | 06-0981-089              | 28-1785-181              | 13-2887-112              | 31-2587-177              | 12-3787-278              | 23-4887-482              | 06-2494-102              |
| 27-0575-536              | 06-1081-092              | 33-2485-611              | 15-3687-112              | 07-3687-181              | 27-1187-281              | 01-3587-483              | 10-4694-222              |
| 14-1475-537              | 06-1181-093              | 22-2785-613              | 03-2587-113              | 09-4087-181              | 19-2787-282              | 15-3787-483              | 06-2594-231              |
| 19-2975-537              | 06-1281-094              | 23-4185-613              | 10-3987-181              | 10-3987-181              | 20-1987-282              | 18-3687-483              | 06-2694-503              |
| 20-2075-537              | 06-1381-095              | 29-1385-618              | 11-3087-113              | 07-3487-181              | 02-1887-284              | 03-2687-484              | 01-4694-504              |
| 14-1575-549              | 06-1481-097              | 32-3485-618              | 09-3387-113              | 17-5087-181              | 09-4187-284              | 16-2287-484              | 13-3394-504              |
| 01-3175-552              | 06-1581-506              | 11-3586-102              | 13-2987-113              | 19-2587-181              | 29-1587-284              | 19-2887-488              | 02-0794-506              |
| 15-1575-552              | 06-1681-507              | 03-2386-311              | 24-1587-113              | 30-3187-181              | 30-2687-284              | 12-4087-520              | 06-2794-511              |
| 34-0875-552              | 06-1781-508              | 23-4286-311              | 30-2387-113              | 32-3187-181              | 16-2587-285              | 09-3087-610              | 06-2894-804              |
| 35-0975-552              | 06-1881-518              | 08-2186-312              | 31-2487-113              | 33-3087-181              | 30-2787-285              | 16-2987-663              | 27-19NR-789              |
| 09-2975-561              | 06-1981-518              | 15-3486-411              | 32-4187-113              | 07-3787-203              | 03-3087-286              | 34-1187-902              |                          |
| 08-1675-501              | 06-2081-546              | 15-3587-001              | 02-2787-123              | 02-2587-212              | 15-5087-286              | 01-4387-905              |                          |
| 15-1677-030              | 06-2181-580              | 08-2287-011              | 09-3487-123              | 03-2887-212              | 16-2687-286              | 25-1987-905              |                          |
| 25-0577-032              | 06-2281-581              | 32-3587-034              | 18-3787-123              | 10-4087-212              | 21-2887-286              | 15-4688-003              |                          |
| 34-0477-032              | 12-2581-585              | 32-3687-035              | 22-2987-123              | 07-3887-213              | 31-2787-303              | 20-3488-004              |                          |
| 15-1777-033              | 06-1881-587              | 01-3387-053              | 23-4687-123              | 15-4087-213              | 31-2887-304              | 17-5388-136              |                          |
| 15-1877-051              | 20-3581-588              | 12-2787-057              | 24-1687-123              | 19-2387-213              | 31-2887-304              | 17-5488-137              |                          |
| 15-1977-052              | 04-2184-021              | 12-2887-067              | 32-4287-123              | 20-1587-213              | 16-2787-311              | 23-5188-146              |                          |
| 15-2077-053              | 13-2484-021              | 17-4587-072              | 02-2887-124              | 30-2587-213              | 09-4287-322              | 30-2988-147              |                          |
| 15-2177-054              | 11-2484-161              | 18-3087-075              | 23-4787-124              | 07-3987-214              | 12-3887-368              | 31-3088-157              |                          |
| 15-2277-510              | 33-2284-167              | 18-3287-078              | 32-4387-124              | 14-1887-214              | 12-3987-369              | 17-5588-165              |                          |
| 15-2377-511              | 11-2684-361              | 18-3387-079              | 17-4887-128              | 15-4187-224              | 04-2787-372              | 17-5688-166              |                          |
| 15-2479-022              | 11-2584-174              | 23-4387-080              | 09-3587-133              | 21-2787-224              | 18-4287-398              | 14-2088-166              |                          |
| 15-2579-023              | 15-2379-023              | 17-5687-083              | 22-3087-140              | 01-3987-228              | 15-4487-404              | 19-4188-166              |                          |
| 15-2679-024              | 21-2184-361              | 32-3787-083              | 17-4987-142              | 10-4187-233              | 01-4187-411              | 20-3388-166              |                          |
| 04-2079-025              | 30-2184-361              | 32-3887-083              | 32-4487-142              | 12-3287-241              | 18-3987-414              | 34-1788-166              |                          |
| 13-2279-025              | 21-3884-364              | 02-3487-092              | 33-2887-142              | 07-4087-242              | 03-2987-415              | 19-0788-176              |                          |
| 03-1679-104              | 13-2584-374              | 07-3287-092              | 18-3887-145              | 19-1287-245              | 20-2987-415              | 20-2988-179              |                          |

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# ***NC** Series Instruction Manual*

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## INTRODUCTION

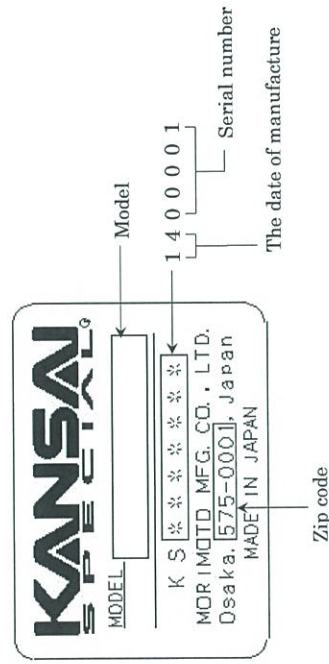
Thank you for your purchasing Kansai Special's NC Series.  
Read and study this instruction manual carefully before beginning any of the procedures and save it for later use.

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

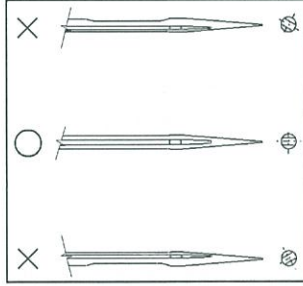
### 1-1 Needles

UY128GAS of Schmetz, Organ or Groz-Beckert.

Select the proper needle for the fabric and thread.

< Needles and needle size >

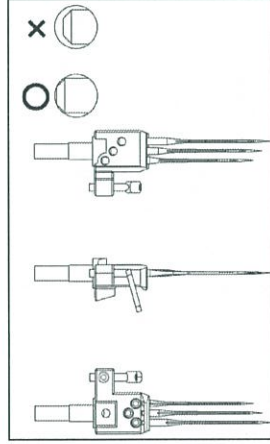
| Organ    | # 09 | # 10 | # 11 | # 12 | # 14 |
|----------|------|------|------|------|------|
| UY128GAS | Nm65 | Nm70 | Nm75 | Nm80 | Nm90 |
| Schmetz  |      |      |      |      |      |
| UY128GAS | Nm65 | Nm70 | Nm75 | Nm80 | Nm90 |
| Groz     |      |      |      |      |      |
| UY128GAS |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

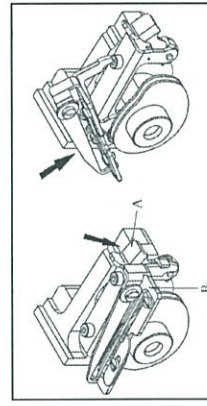


< Note >

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. Return it to the original position by pressing B.



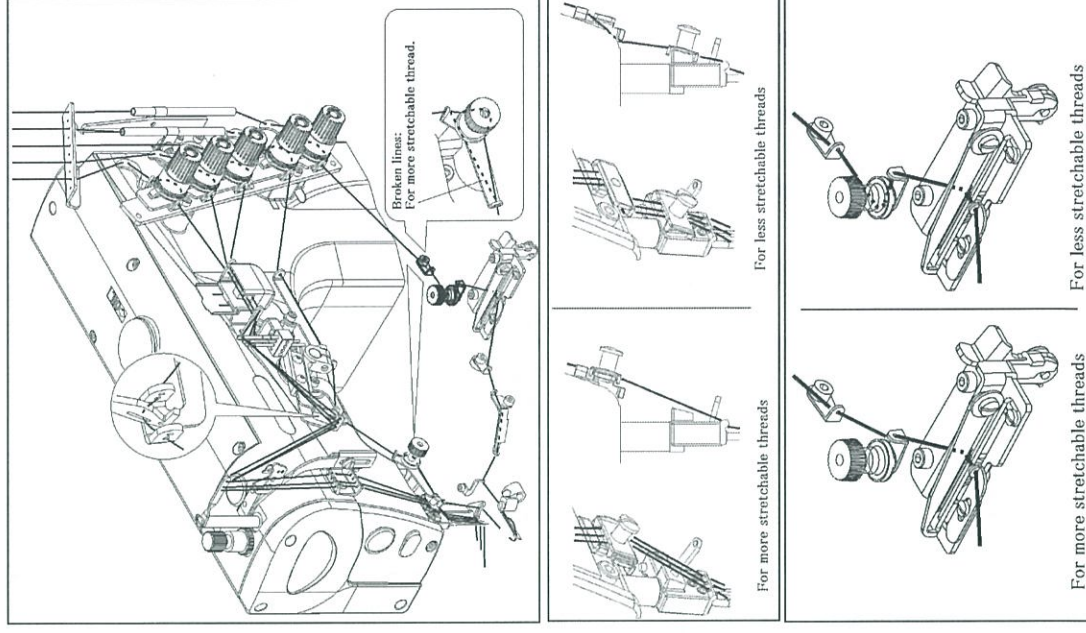
< Note >

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.

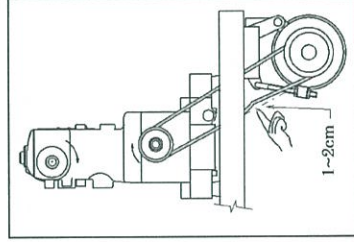
The machine pulley turns clockwise as the handwheel does as seen from the machine pulley

### 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)



< Machine speed >

| TYPE   | MAXIMUM SPEED | STANDARD SPEED |
|--------|---------------|----------------|
| NC1103 | 4,500rpm      | 4,000rpm       |

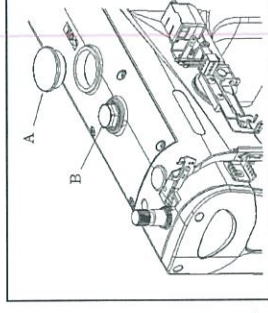
< Motor pulley selection table >

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

## [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

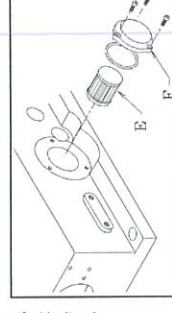
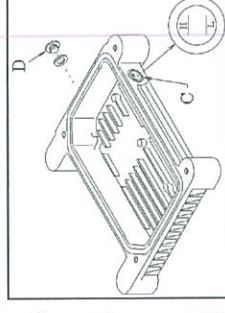
After filling the machine with oil, run the machine to check the oil is splashing to oil flow sight window B.

### 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.



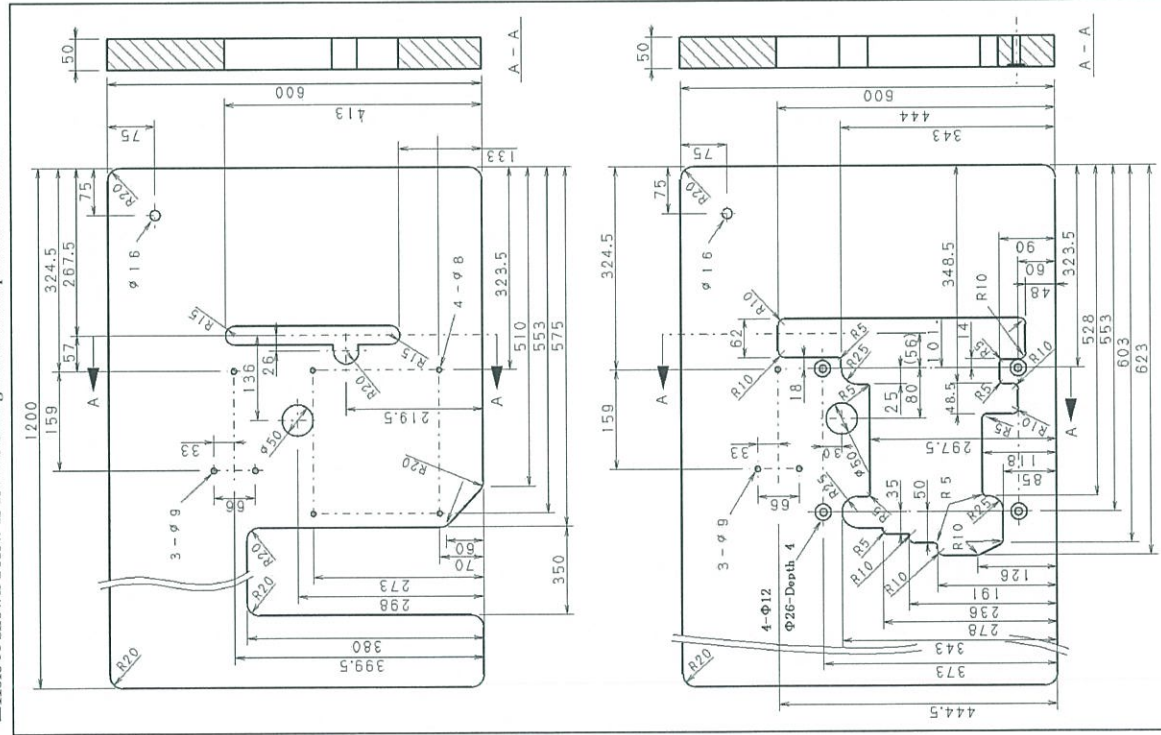
If element E is contaminated, proper oiling may not be performed. Clean the filter element every six months. If just a little or no oil flows out from the nozzle with the proper amount of oil in the machine, check the element. To do so, remove oil filter cap F. Replace the element if necessary.

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

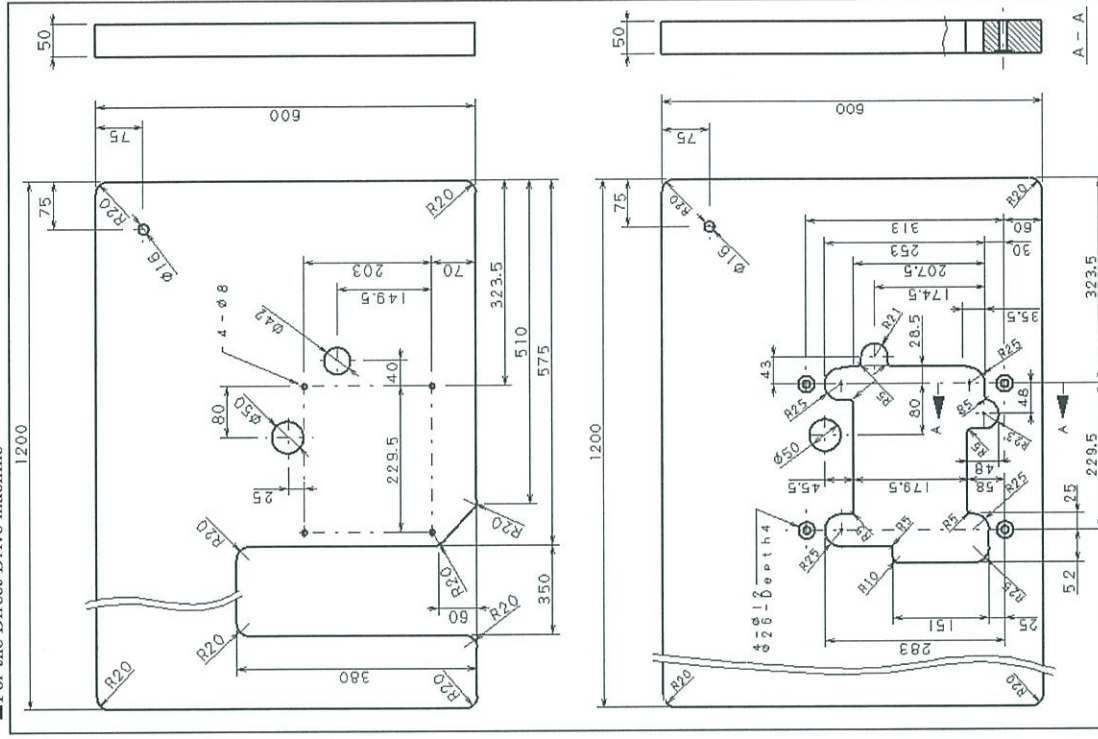
## 【 4 】 SEWING MACHINE INSTALLATION

### 4-1 Cutting the machine table

■ Hole A shown below is for installing the electric presser foot lift.



■ For the Direct-Drive machine



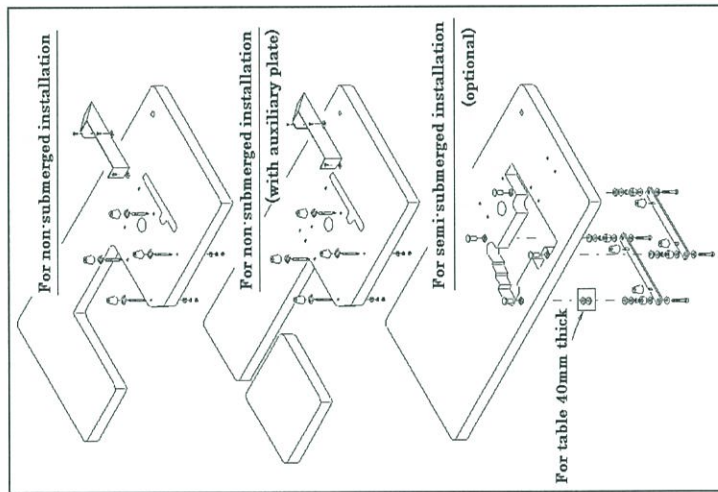


#### 4-2 Installing the machine

The NC 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.



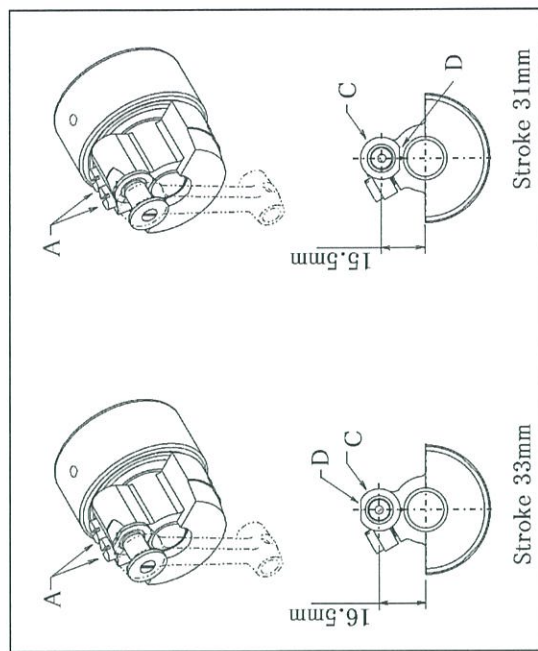
##### ■ Semi-submerged installation

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 33mm.

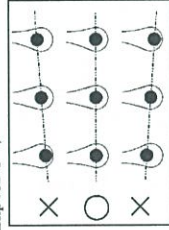
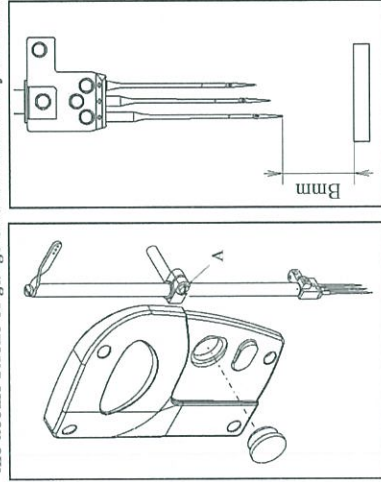


##### < Note >

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.  
And 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

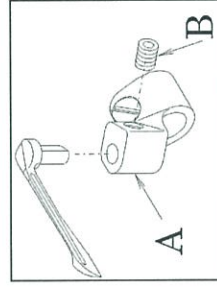
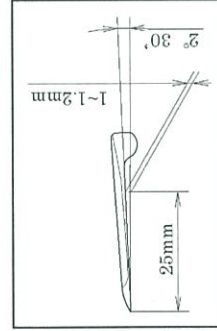
When the needle bar is at the bottom of its stroke, remove the plug on the head cover, loosen screw A, and move the needle bar up or down. Setting distance B varies according to the needle stroke or gauge size for further adjustment. (See chapter 5-4)



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

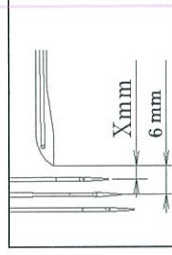
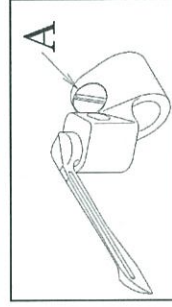
### 5-3 Angle and height for installing the looper

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 : Approximately 1.1mm.



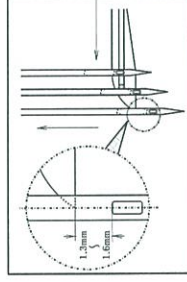
### 5-4 Looper setting distance

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)



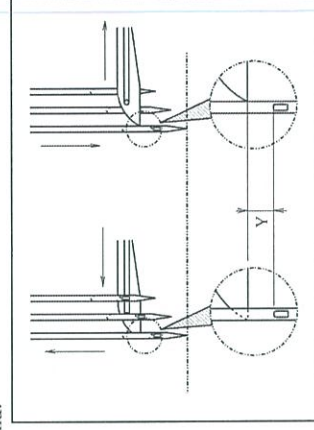
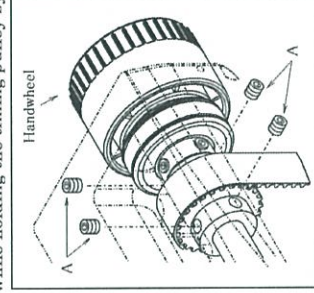
| Needle<br>stroke<br>(mm)<br>gauge<br>(inch) | Needle height<br>(Bmm) |               | Looper setting<br>distance (Xmm) |
|---------------------------------------------|------------------------|---------------|----------------------------------|
|                                             | 31                     | 33 (STANDARD) |                                  |
| 3.2 (1/8)                                   | 8.2±0.2                | 9.7±0.2       | 31/33                            |
| 4.0 (5/32)                                  | 7.8±0.2                | 9.3±0.2       | 4.4                              |
| 4.8 (3/16)                                  | 7.4±0.2                | 8.9±0.2       | 4.0                              |
| 5.6 (7/32)                                  | 7.0±0.2                | 8.5±0.2       | 3.6                              |
| 6.4 (1/4)                                   | 6.6±0.2                | 8.1±0.2       | 3.2                              |
|                                             |                        |               | 2.8                              |

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

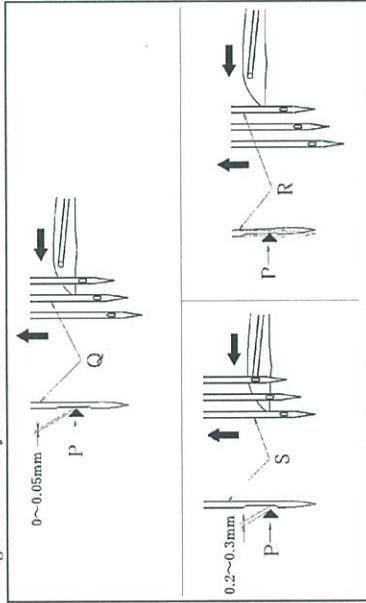
When the point of the looper moves to the left needle should be same distance Y from the top of its needle's eye to the point of the looper by referring to the illustration below. To adjust the timing of the looper to the needles, remove the machine cover, loosen screws A on the timing pulley (upper),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

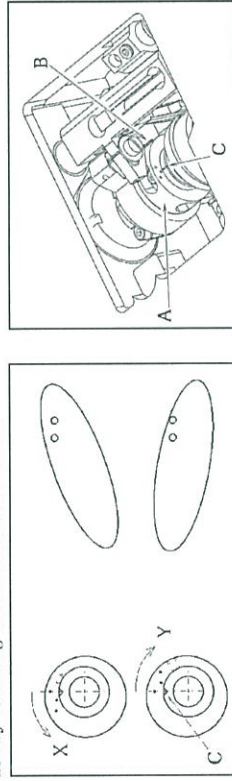
The looper set the clearance between back side of the center needle Q and the point of the looper at 0~0.05mm. To make this adjustment, loosen screw B on the looper holder first. At this time the looper should barely touch the right needle R. And the point of the looper at this position, set the clearance 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.

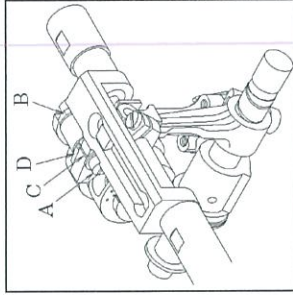
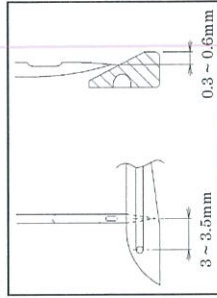
The amount of the looper front-to-back movement is factory set properly for needle count #11 (Nm75).

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.

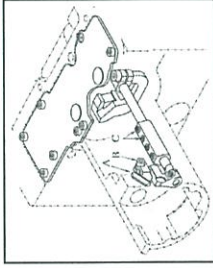
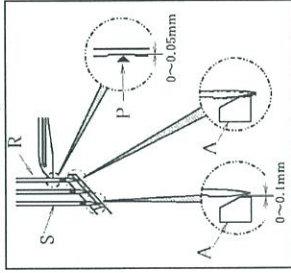
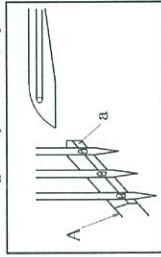
< Note >

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

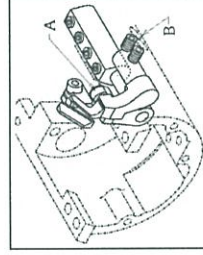
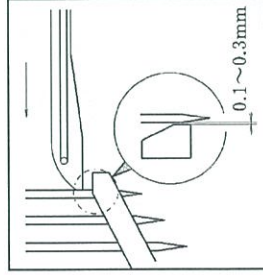
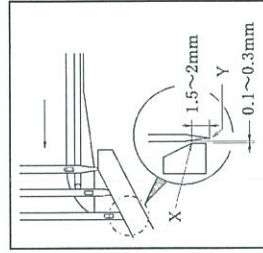
### 6-1 Position of the needle guard (rear)

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



### 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.



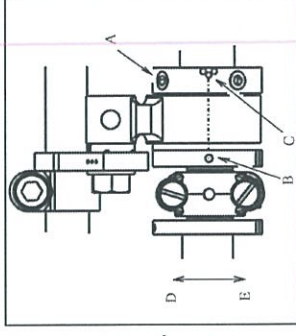
## 【 7 】 SPREADER

### 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

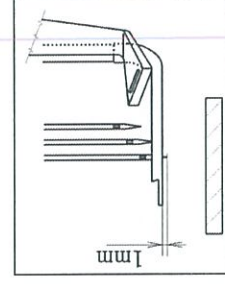
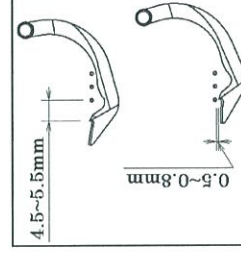
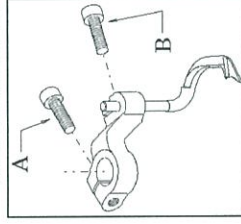
#### ■ Height

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

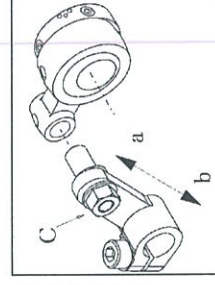
#### ■ Left-to-right position

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.



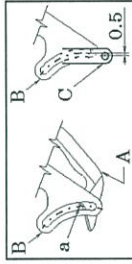
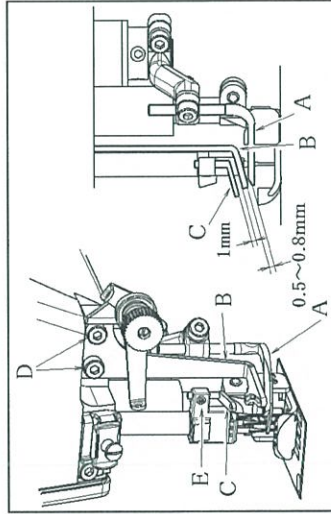
Adjust the amount of the spreader movement according to the number of spreader threads and/or the fabric weight. To make this adjustment, remove the arm top cover, loosen nut C and then move the adjusting lever pin in direction (a) or (b). To decrease the amount, move the pin in the direction of (a).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





### 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.

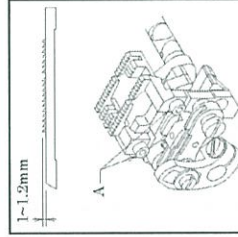


## 【 8 】 FEED DOGS & STITCH LENGTH

### 8-1 Feed dog height & tilt

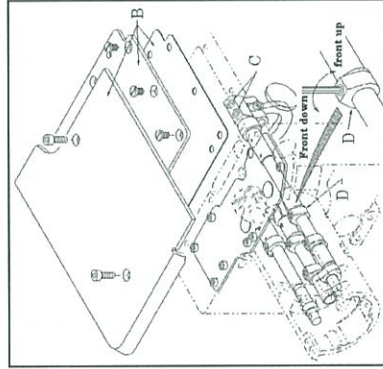
#### ■ Height

When the feed dogs are at the top of their stroke, the main and differential feed dogs should be parallel with and 1~1.2mm above the needle plate.



#### ■ Tilt

Adjustment is made by loosening screws A and moving each of the feed dogs up or down.



#### ■ Tilt adjustment

1. Open the front cover. Remove the cloth plate B.
2. Loosen screw C with a 3mm key wrench.
3. Remove the cylinder cover. To tilt up the front feed dog at its rear end, the shaft of front side toward the front side of the machine. To tilt down the front feed dog at its front end, turn the shaft of front side toward the back side of the machine.

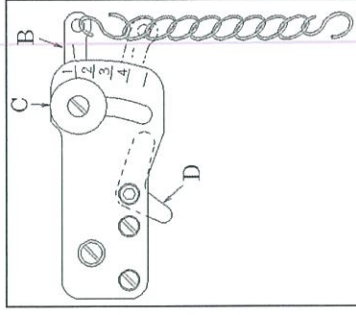
### 8-2 Stitch length

The stitch length can be adjusted from 1.4 to 4.2mm with no step. The following table shows the stitch length with the number of stitches within 1 inch (25.4mm) and 30mm.

| Stitch Length (mm) | No. of stitches (within 1") | No. of stitches (within 30mm) |
|--------------------|-----------------------------|-------------------------------|
| 4.2                | 6.0                         | 7.5                           |
| 3.6                | 7.0                         | 8.0                           |
| 2.4                | 10.5                        | 12.5                          |
| 1.4                | 18.0                        | 21.0                          |

#### ■ To change the stitch length

1. To increase the stitch length, turn adjusting knob A clockwise. To decrease the stitch length, turn adjusting knob A counterclockwise.
  2. To adjust the stitch length with lever B, secure lever B with nut C as required.
- The range extends from the reading read by lever B when adjusting knob A is turned to the reading at which lever B is stopped by stopper D. To adjust the stitch length during sewing, connect a chain to the lever.

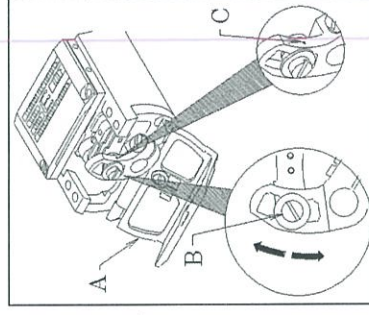


#### < Note >

Be sure to turn off the motor before changing the stitch length.

### 8-3 Differential feed

Open the front cover A. Loosen screw B. To gather the fabric, move up screw B (maximum normal differential feed ratio: 1:1.4). To stretch the fabric, move down screw B (maximum reverse differential feed ratio: 1:0.8). When alignment mark C is aligned with the center of screw B, the differential feed ratio is 1:1.

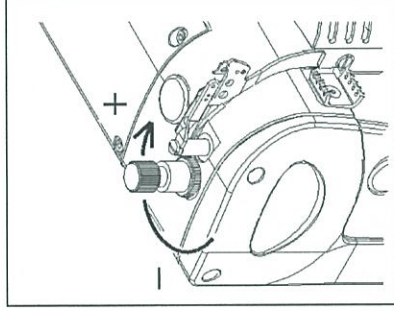


## [ 9 ] PRESSER FOOT

### 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.

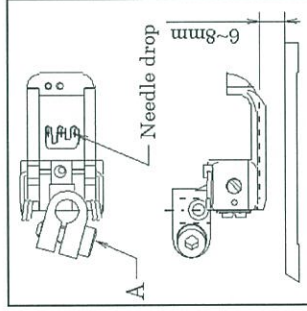


### 9-2 Position of the presser foot & foot lift

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

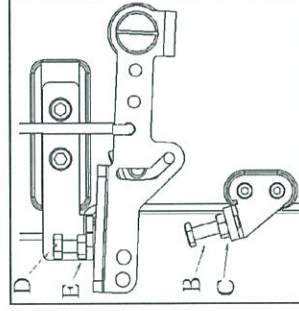
Loosen screw A. Adjust by moving the presser foot left or right while checking to make sure the needle drops correctly to the center of the presser foot needle drop hole.



#### ■ 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.*

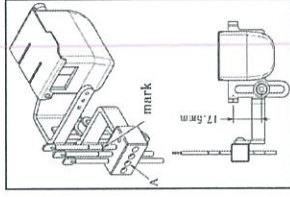
## [ 10 ] STITCH FORMATION

### 10-1 Position of the needle thread guides

The distance from the center of the needle thread guide to that of the set screw should be approximately 17.5mm (see the illustration).

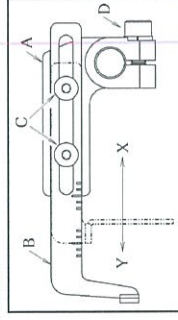
Adjust the height of the thread guides by loosening screws A and moving each thread guide up or down (refer to the mark shown in the illustration).

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.

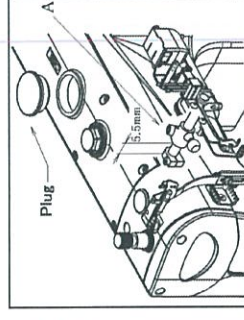


### 10-3 Timing of the needle thread take-up

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.

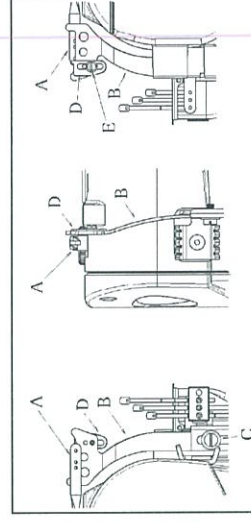
#### <Note>

*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.

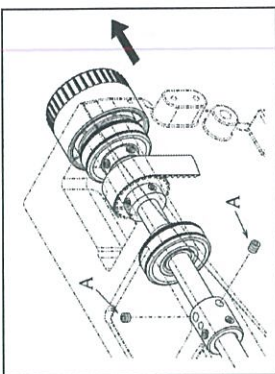
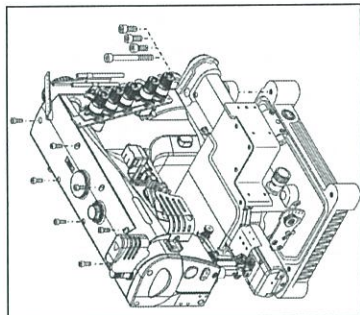




## 【 11 】 REPLACING THE TIMING BELT

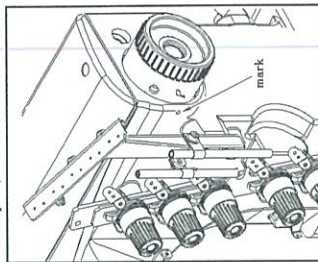
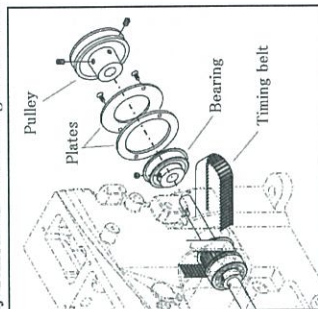
### 11-1 To remove the timing belt

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



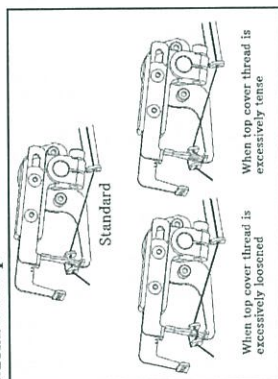
### 11-2 To place the timing belt

1. Install the timing belt, bearing, pulley and cover by performing the reverse procedure of 11-1.
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 loop to the extreme right end of its travel by turning the machine pulley. Bring the needle bar 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.



### 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)



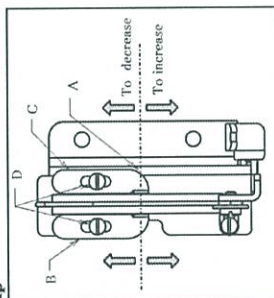
### 10-6 Position of the thread guide of the looper thread take-up

Align the eyes of thread eyelets B and C with mark A on the guide plate.

Adjustment is made by loosening screws D.

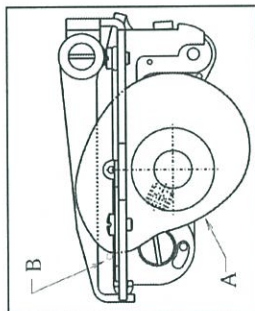
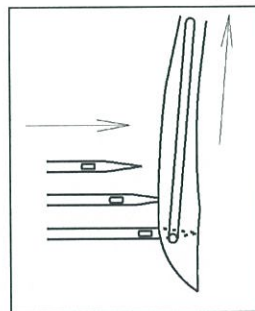
■ To increase the amount of looper thread to be supplied  
Move the eyes of B and C to the front.

■ To decrease the amount of looper thread to be supplied  
Move the eyes of B and C to the back.



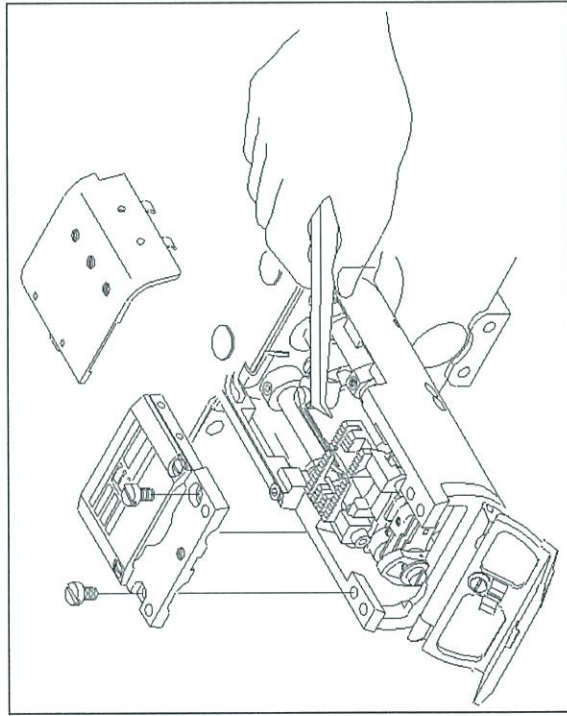
### 10-7 Position of the looper thread take-up

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.



**[ 12 ] 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.





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# ***NC-UT*** *Series Instruction Manual*

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## INTRODUCTION

*Thank you for your purchasing Kansai Special's NC/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 NC Series instruction manual for other information.*

NC-UTseries

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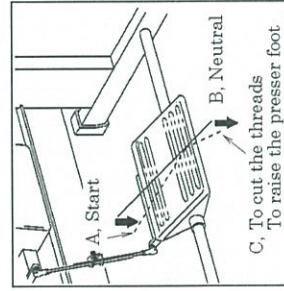
NC-UTseries



## [1] HOW TO USE THE THREAD TRIMMER

<Note >

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

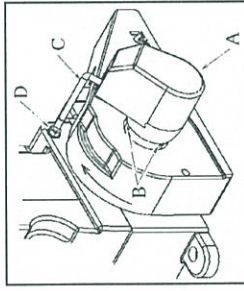


- Pressing the pedal with toe (position A) starts the machine. Releasing the pedal (position B) stops the needle at the top/bottom of its stroke (adjustable with the motor).
- If the needle stops at the bottom of its stroke as adjusted, pressing the pedal with heel (position C) raises the needle. As 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.

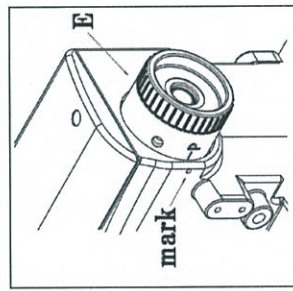
## [2] INSTALLING THE POSITION DETECTOR

- 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.
- 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.



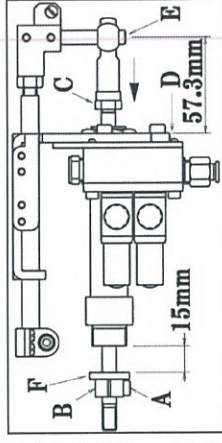
## [3] ADJUSTING THE THREAD TRIMMER AIR CYLINDER (UTA)

### 3-1 Air cylinder stroke

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

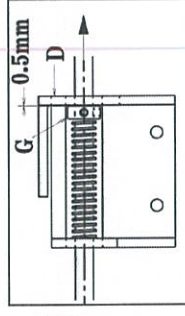
To adjust this stroke, loosen collar B and screw A. Set the clearance between rubber cushion F and the rear end of the cylinder at 15mm.

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 57.3mm.



### 3-2 Air cylinder return spring

With the cylinder plunger protruded, there should be approximately 0.5mm clearance between collar G and bracket D.



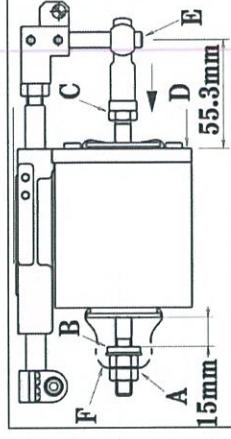
## [4] ADJUSTING THE THREAD TRIMMER SOLENOID (UTE)

### 4-1 Solenoid stroke

The stroke of the solenoid should be approximately 15mm.

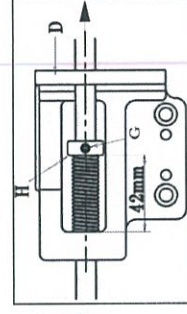
To adjust this stroke, remove rubber cover F and loosen nut A.

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.

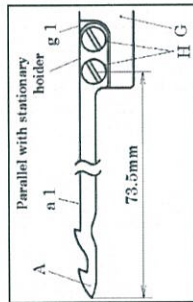




## [ 5 ] ADJUSTING THE THREAD TRIMMER

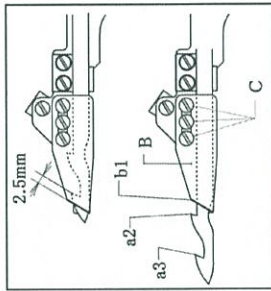
### 5-1 Position of the movable knife and the stationary knife

- 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 looper thread and stationary knife to be approximately 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.  
Note that the looper thread clamp spring is simultaneously loosened.

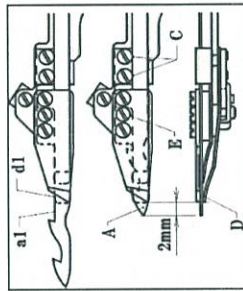


### 5-2 Adjusting the looper thread clamp spring

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.

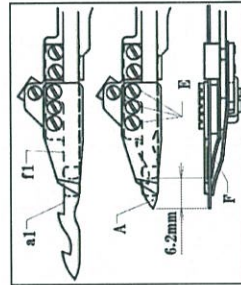
Adjustment is made by loosening screw C.  
To adjust the pressure of thread clamp spring D, turn adjusting screw E. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise.



### 5-3 Adjusting the movable knife pressure spring

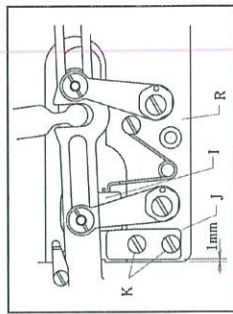
Position of movable knife pressure spring F so that the part (a 1) of movable knife and the part (f 1) of movable knife pressure spring are on the same plane. And adjust it will protrude approximately 6.2mm from the point of movable knife A when movable knife is at the extreme right.

Adjustment is made by loosening screw E.



### 5-4 Adjusting the stationary knife holder stopper

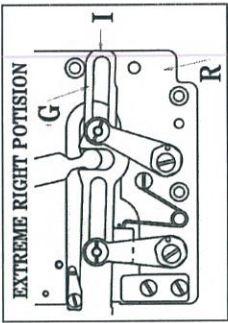
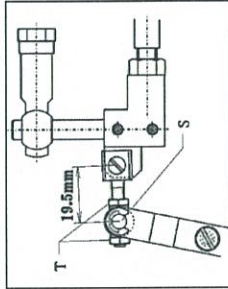
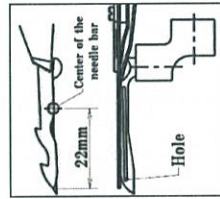
The stationary knife holder I slides to the left and stops by stationary knife holder stopper J.  
Never slide the stationary knife holder I to the left too much because the looper thread clamp spring touches the looper. The adjustment is made by loosening screw K and moving stationary knife stopper 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 approximately 22mm 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.

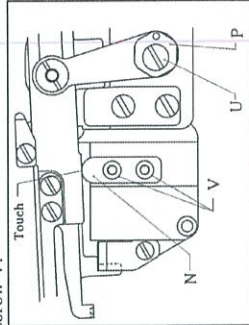
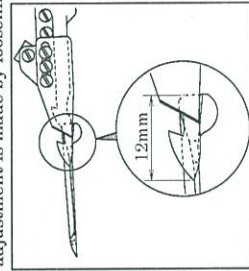


Position of the movable knife holder G so that the right side of the mount plate R and the right side of the movable knife holder G are on the same plane when the movable knife is at the extreme right. See to the right illustration.

### 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.



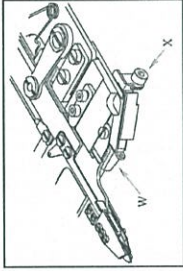
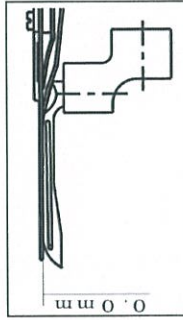
< Note >

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

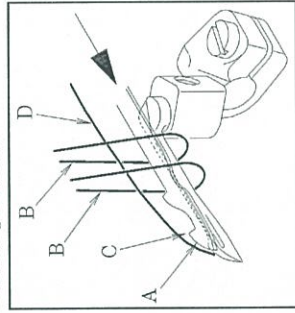
There should be a clearance of 0mm between movable knife and the top surface of looper. The adjustment is made by loosening screw X and moving stationary knife holder guide. After the above adjustment, make sure the movable and stationary knife holders move smoothly.



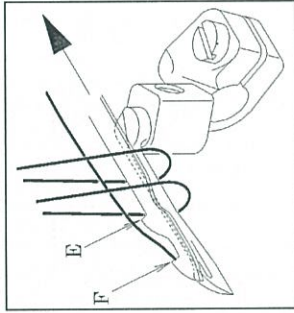
### 5-8 Relationship between the movable knife, needle thread and looper thread

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.

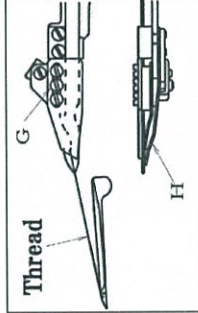


- When the movable knife is returning home, the needle threads and looper thread are pulled to the right by cutting edges E and F and cut by the stationary knife.



### 5-9 Looper thread clamp spring pressure

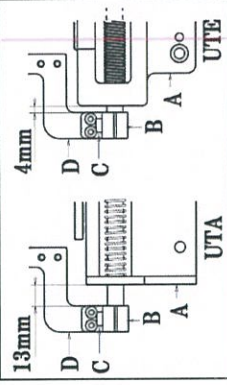
The looper thread clamp spring holds the looper thread after it is cut. To adjust the pressure of thread clamp spring H, turn adjusting screw G. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise. The machine is supplied with a spun thread (#60). The pressure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



### [G] ADJUSTING THE THREAD RELEASER

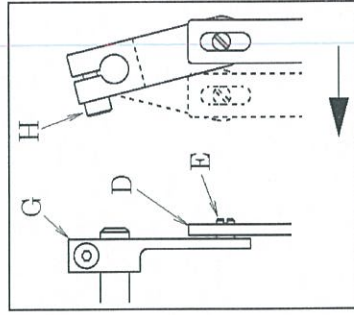
#### 6-1 Thread releaser block

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 13mm(model UTA 4mm). Then tighten screw C.



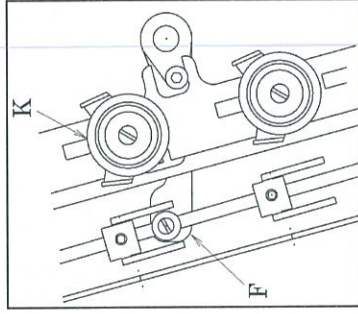
#### 6-2 Thread releaser connection plate

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.



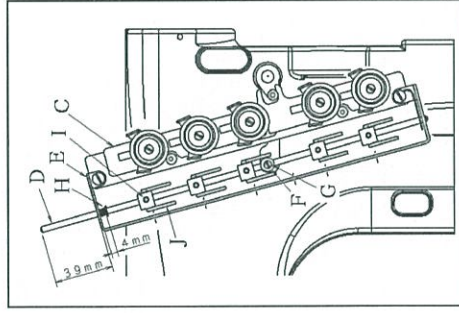
#### 6-3 Thread releaser lever

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.

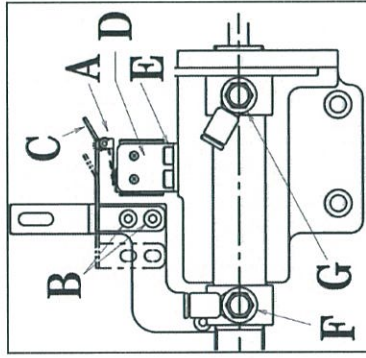


#### 6-5 Thread releaser hook

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.

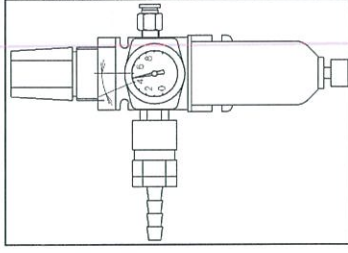
### [ 7 ] SAFETY DETECTOR

■ 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)

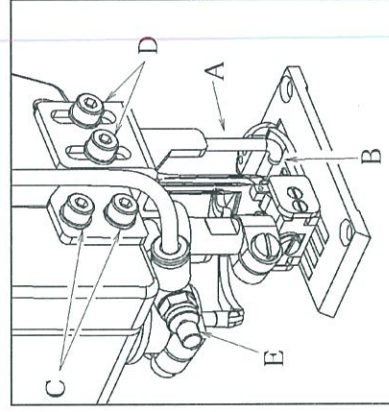
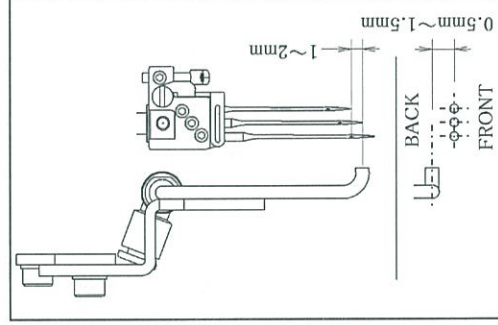
■ Speed controller F controls the speed when the thread trimmer knife holder protrudes. Speed controller G controls the speed when the thread trimmer knife holder retracts. If screw F is too loosened, the holder will protrude too fast and then the position of the movable knife will be unstable, causing 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/cm<sup>2</sup>. 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 ] THREAD WIPER ADJUSTMENT (UTA)

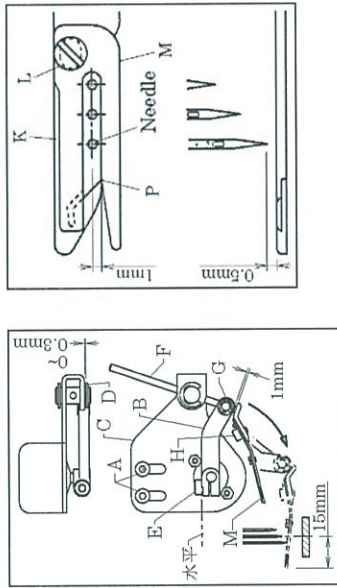
- When the needle bar is at the top of its stroke, position air blowing outlet B 1~2mm below the left needle's eye. Loosen screw D and air wiper up or down required.
- The position of air blowing outlet B should be 0.5~1.5mm from backside of the needles. Loosen screw C and air wiper front or back required.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





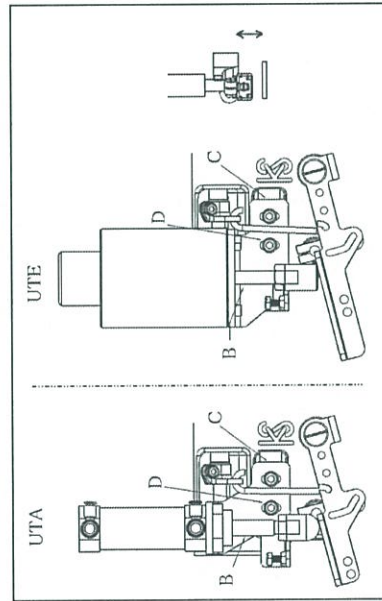
## 【10】 THREAD WIPER ADJUSTMENT (UTE)

- 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 15mm 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 be approximately 0.5mm with screw A.
- Position of thread wiper K is parallel with flat spring M with screw L.



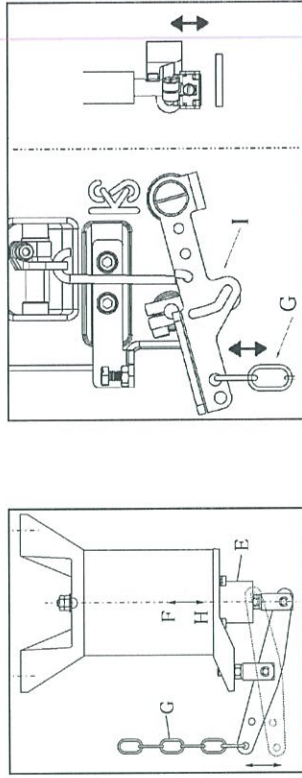
## 【11】 ADJUSTING THE PRESSER FOOT LIFT

- 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.

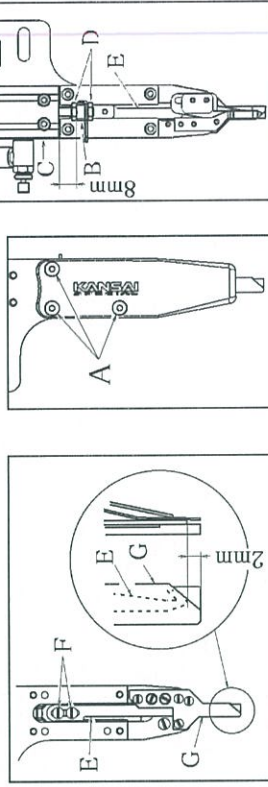


## 【12】 ADJUSTING THE TOP COVER THREAD TRIMMER

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

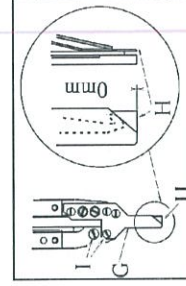
When the movable knife E retracts all the way, Set the clearance between mount bracket B and the end of the air cylinder C at 8mm. Tighten nut D. (Model for UTA)

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.



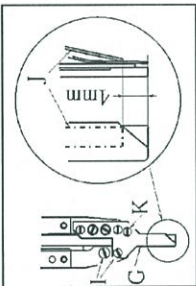
### 12-2 Adjusting the top cover thread clamp spring

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



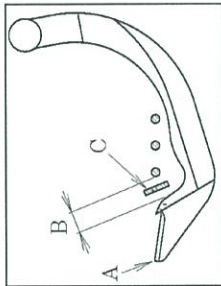
### 12-3 Adjusting the top cover thread rear spring

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.

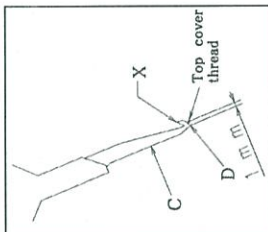


### 12-5 Adjusting the movable knife left to right

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.

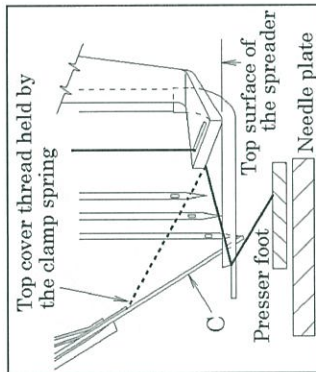
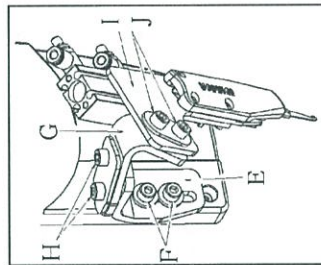
### 12-6 Adjusting the movable knife front to back

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)

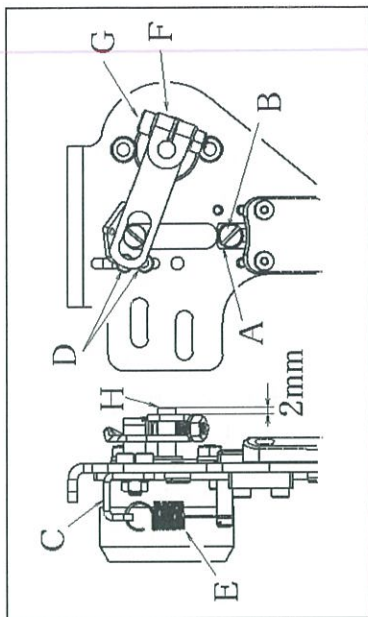


<Note >

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

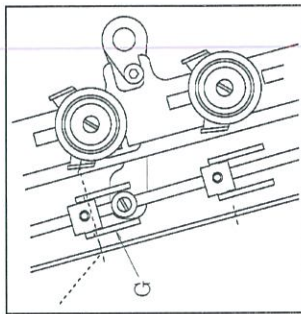
### 12-8 Adjusting the solenoid return spring (UTE)

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.

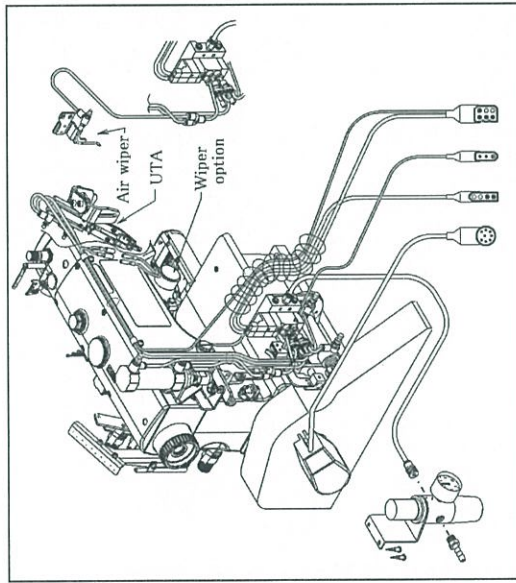




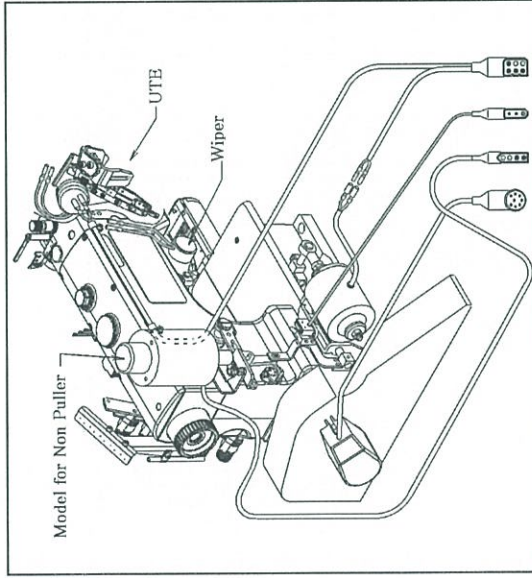
# **[ 13 ] WIRING AND PIPING FOR PNEUMATIC DEVICES**

## ■ **Model for UTA**

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



## ■ **Model for UTE**



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