

# PARTS LIST & INSTRUCTION

# *NFS* *SERIES*

## Industrial Sewing Machines

*NFS6604G / S, LM, MH, MH-B / DD*

2016年6月 第二版 発行

*2nd edition: June. 2016*

No. 160064

**KANSAI**  
SPECIAL®

## パーツブック御利用に際して

- このパーツブックは、2016年6月製造中のNFSシリーズのデータに基づいて作成されたものです。
- 各機構別に収録され、左側のページに分解イラスト図、右側のページに部品番号、名称、及び数量が記載されています。
- この本の最後に部品番号インデックスを記載しています。部品番号からの図解、名称の検索に御利用下さい。
- 部品は、予告なく変更される場合がありますので、あらかじめ御了承下さい。

## INTRODUCTION

- This parts book is based on data current JUNE 2016.
- Each mechanism is arranged on facing pages. You will find listed for parts number, names, and quantities.
- A parts number index is attached to the back of this book for convenience.
- Parts are subject to change without notice.

## NFSシリーズ 表示方法

## NFS SERIES INFORMATION

■ NFS6604Gは密閉式4本針フラットシーム用腕送り出しミシンです。  
NFS6604G is 4-needle FLAT-SEAMER  
feed off the arm machine with new  
oil protection equipment.

■針幅です。(5.2mm 又は 6.0mm)  
Needle width (5.2mm or 6.0mm)

NFS 6 6 0 4 G LM - DD - 52

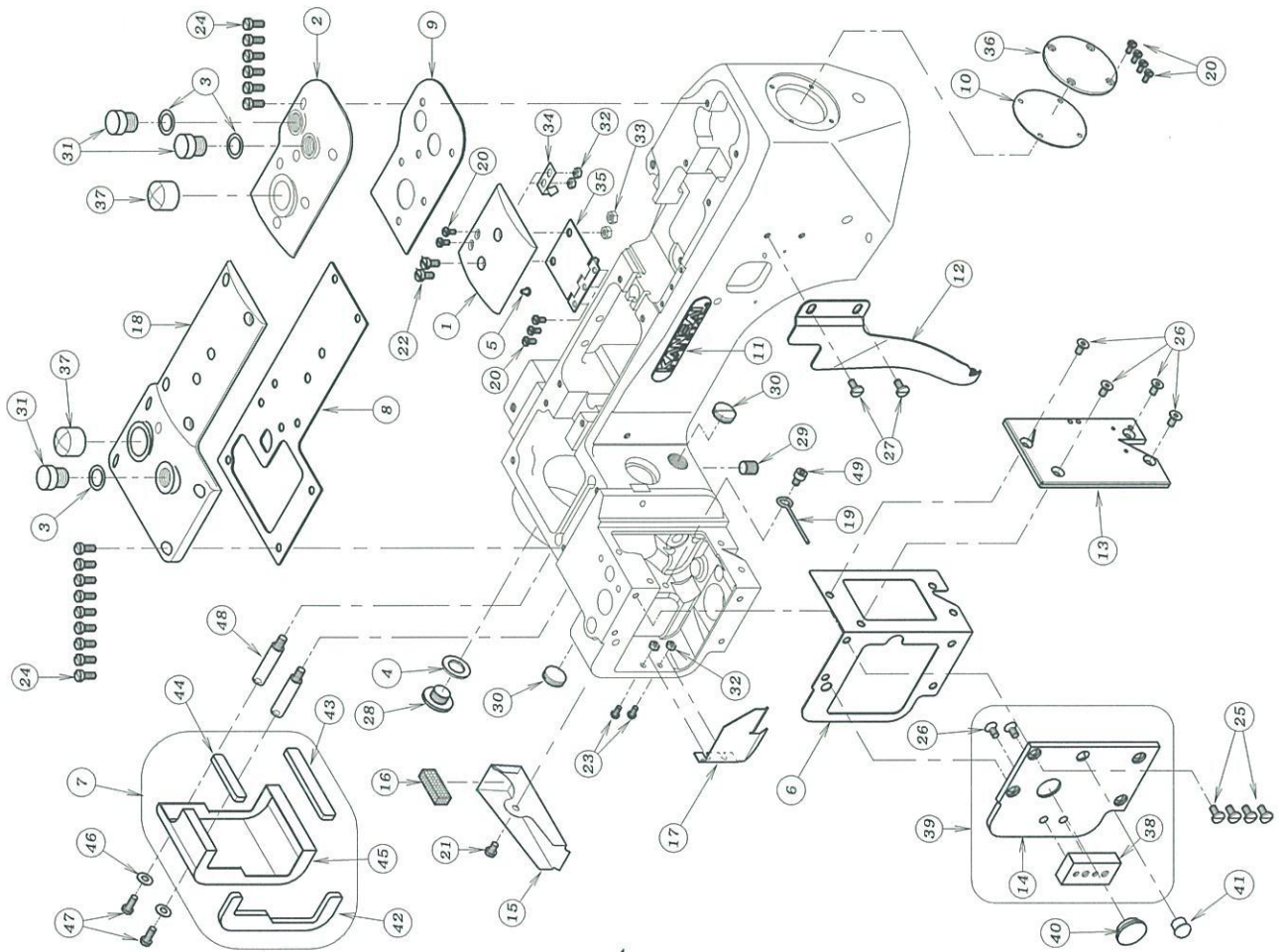
■DD:ダイレクトモーター仕様  
Direct motor

- S : 4本針6本糸 片切り、薄物及び中厚物ニット等の合わせ縫い。  
4-Needle 6-Thread, For Light to medium weight fabric.  
Trimming left side edge.
- LM : 4本針6本糸 両切り、薄物及び中厚物ニット等の合わせ縫い。  
4-Needle 6-Thread, For Light to medium weight fabric.  
Both side fabric trimmer.
- MH : 4本針6本糸 両切り、中厚物及び厚物ニット等の合わせ縫い。  
4-Needle 6-Thread, For medium to Heavy weight fabric.  
Both side fabric trimmer.
- MH-B : 4本針6本糸 両切り、中厚物及び厚物ニット等の突合わせ縫い。(ブットシーム)  
4-Needle 6-Thread, For medium to Heavy weight fabric.  
Both side fabric trimmer without overlapping fabrics.  
(butt seams)

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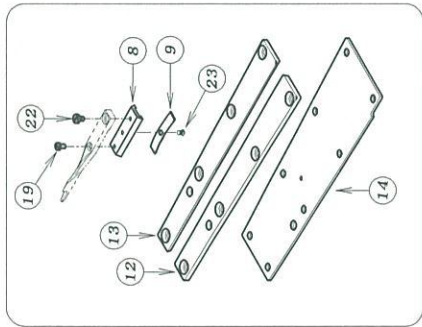
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# 1. フレーム関係 (1) FRAME ASSEMBLY (1)

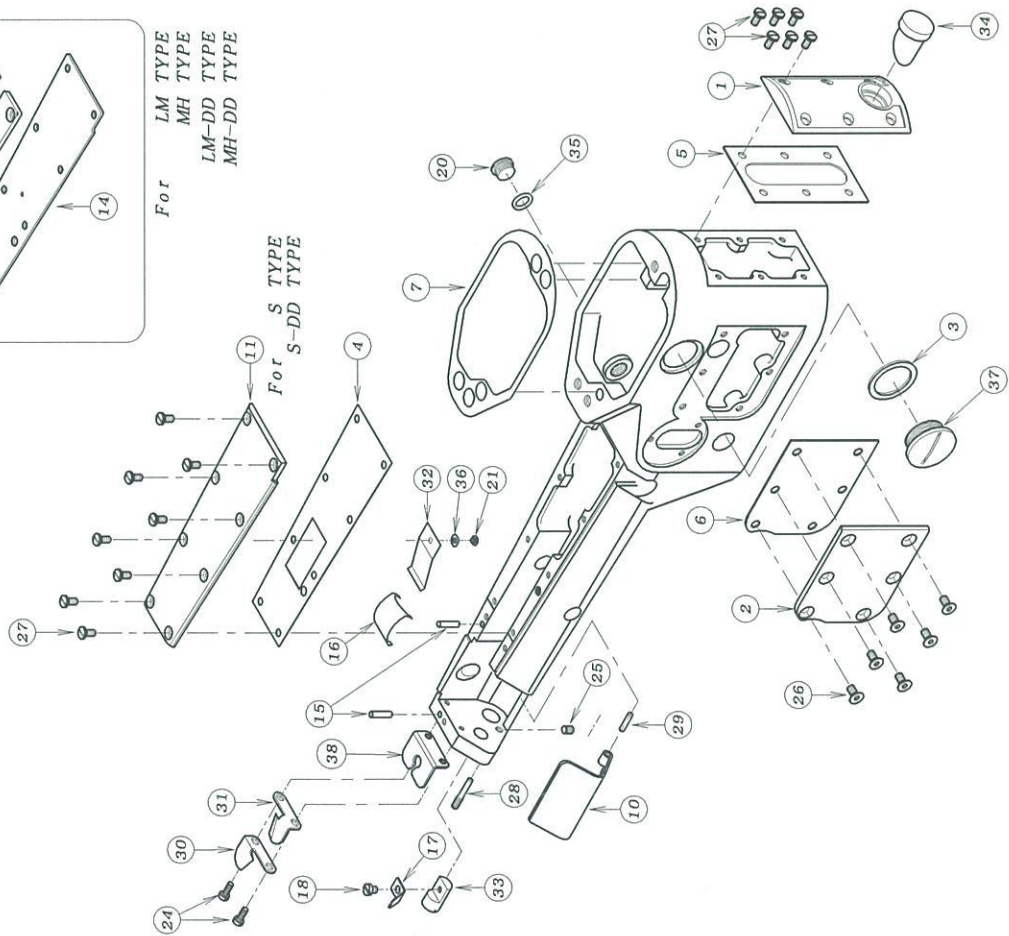


REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
01-01	21-841	トップカハ (中)	TOP COVER (MIDDLE)	1
01-02	21-845	アームトップカハ -	ARM TOP COVER	1
01-03	23-190	リング	O RING	3
01-04	23-304	シール	SEAL	1
01-05	23-512	クッションゴム	CUSHION RUBBER	1
01-06	23-627	針操ハウジングカハ-バックシン	GASKET	1
01-07	20-633.2	油受けカハ-セット図	OIL GUARD COVER ASS'Y	1
01-08	23-665	クラック室ハ-ツキン	GASKET	1
01-09	23-666	トップカハ-後ハ-ツキン	GASKET	1
01-10	23-669	ハ-ツキン	GASKET	1
01-11	24-069	銅板	BRAND NAME PLATE	1
01-12	27-605	ル-ハ-糸カハ -	LOOPER THREAD GUARD	1
01-13	27-647	ハウジングカハ -	COVER	1
01-14	27-646	ハウジングカハ - (左)	COVER (LEFT)	1
01-15	27-610	油受け	OIL GUARD	1
01-16	27-611	油受け部フェルト	FELT	1
01-17	27-615	面取オイルフェンス	OIL GUARD	1
01-18	27-617	クラック室カハ -	COVER	1
01-19	31-613	オイルカ-イト	OIL GUIDE	1
01-20	87-090	ネジ	SCREW	9
01-21	87-481	プラマイナベ小ねじ	SCREW	1
01-22	87-096	ネジ	SCREW	2
01-23	87-477	プラマイナベ小ねじ	SCREW	2
01-24	87-145	ネジ	SCREW	15
01-25	87-288	ネジ	SCREW	4
01-26	87-269	ネジ	SCREW	6
01-27	87-288	ネジ	SCREW	2
01-28	87-311	フタネジ	SCREW	1
01-29	87-336	六角穴付き止めねじ	SCREW	1
01-30	87-670	フ。ラク。ネジ	PLUG SCREW	2
01-31	87-680	オイルカフツ。ネジ	SCREW	3
01-32	88-137	ナット	NUT	4
01-33	88-146	ナット	NUT	2
01-34	98-611	板ハネ	SPRING	1
01-35	98-612	トップカハ-中ヒンジ	MIDDLE TOP COVER HINGE	1
01-36	98-628	ア-ムエントカハ -	ARM END COVER	1
01-37	98-737	オイル器	OIL SIGHT GAUGE	2
01-38	27-636	ブラケット	BRACKET	1
01-39	20-633.3	ハウジングカハ - 左セット図	COVER (LEFT) ASS'Y	1
01-40	23-123	ゴム栓	PLUG	1
01-41	23-501	ゴム栓	PLUG	1
01-42	23-628	防振マット	CUSHION	1
01-43	23-629	防振マット	CUSHION	1
01-44	23-630	防振マット	CUSHION	1
01-45	27-648	油受けカハ -	OIL GUARD COVER	1
01-46	75-455	ワッシャ	WASHER	2
01-47	87-483	プラマイナベ小ねじ	SCREW	2
01-48	87-445	支柱ネジ	SCREW	2
01-49	87-092	六角穴付きボルト	BOLT	1

## 2. フレーム関係 (2) FRAME ASSEMBLY (2)

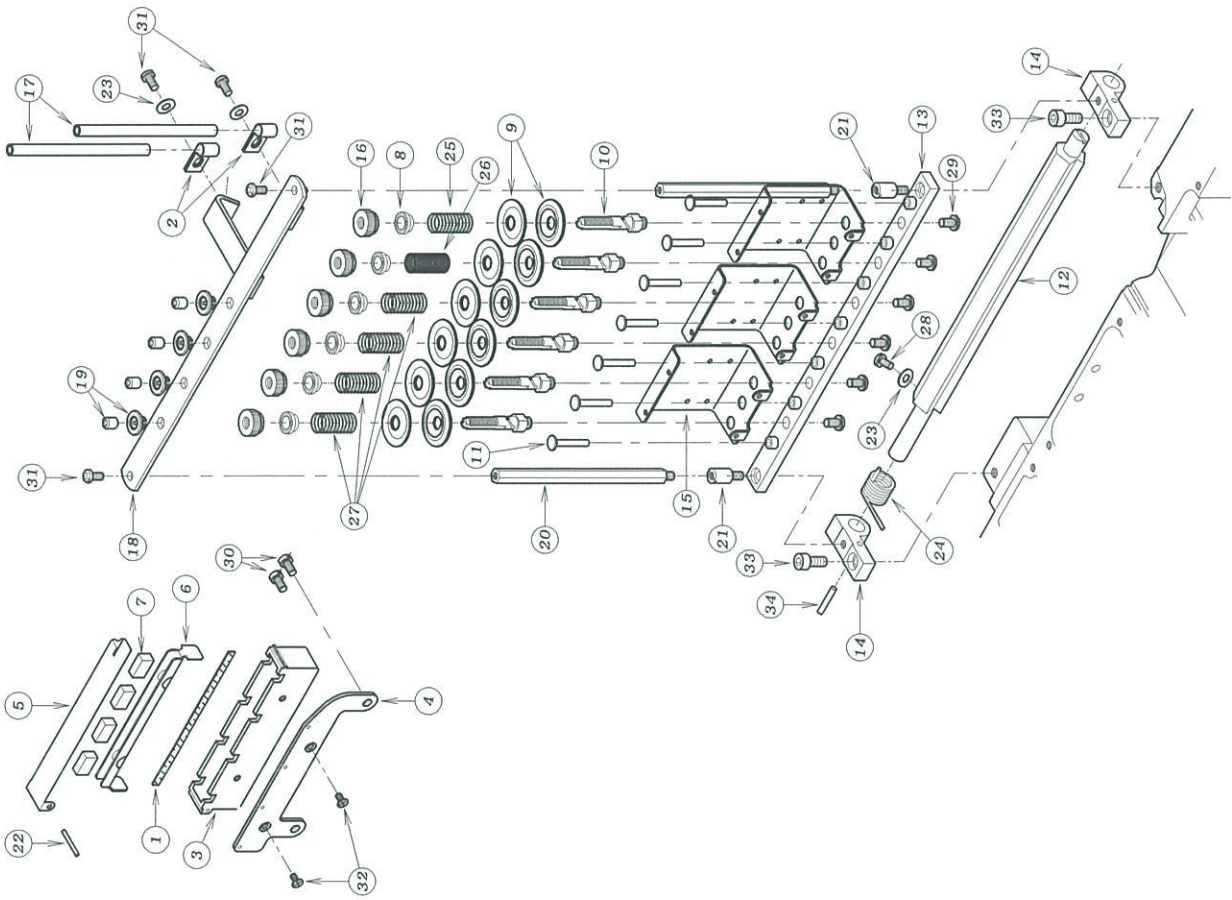


For  
LM TYPE  
MH TYPE  
LM-DD TYPE  
MH-DD TYPE



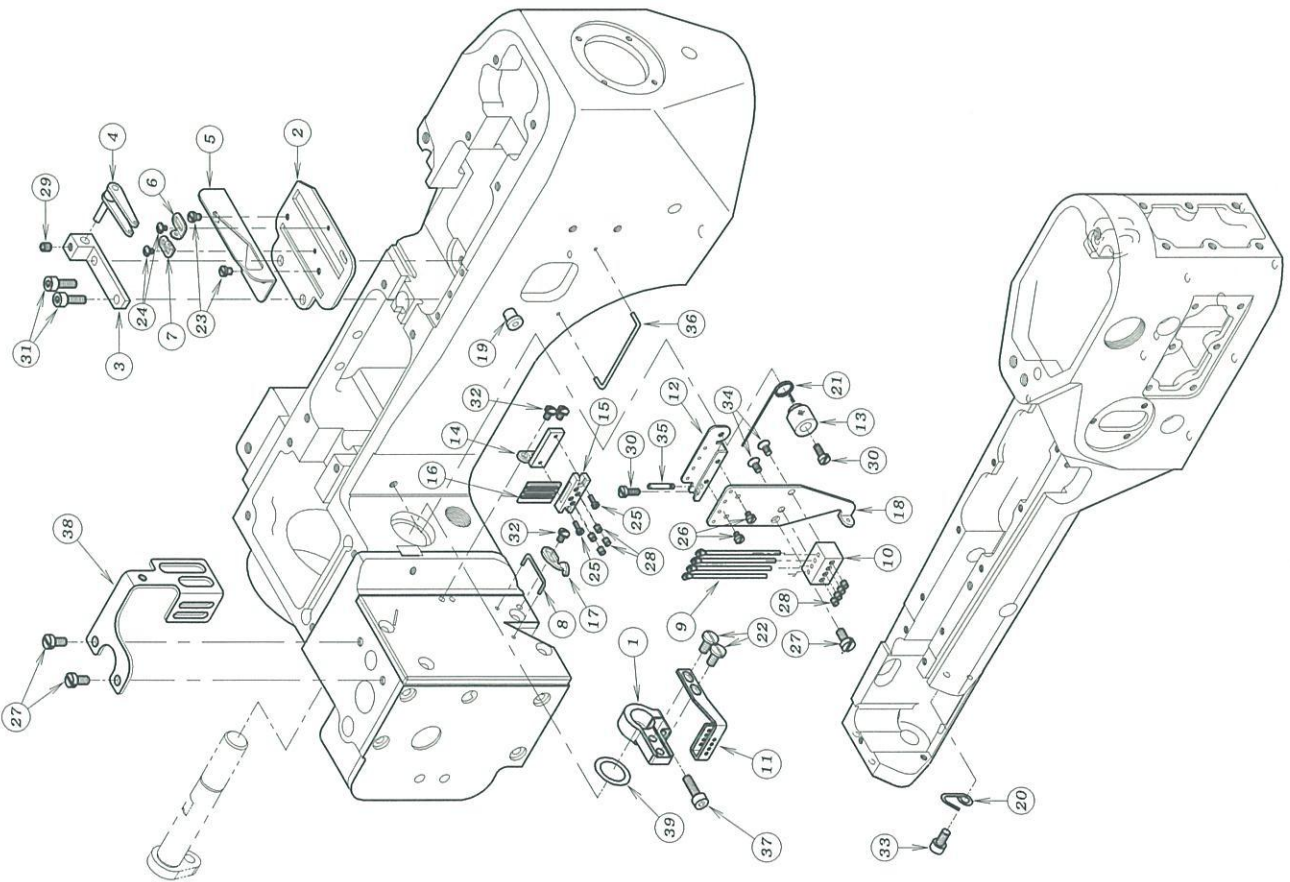
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
02-01	21-997	シリンダ'-カハ'- (前)	CYLINDER COVER (FRONT)	1
02-02	21-998	シリンダ'-サイト'カハ'-	CYLINDER SIDE COVER	1
02-03	23-298	フタネジ用シール	SEAL	1
02-04	23-620	パッキン	GASKET	1
02-05	23-624	ハ'ッキン	GASKET	1
02-06	23-671	ハ'ッキン	GASKET	1
02-07	23-672	スハ'-サ-	SEWING CYLINDER GASKET	1
02-08	26-638	ホカ'イト'取付け台	SLIDE BLOCK	1
02-09	26-639	ホカ'イト'取付け台ハ'ネ	SPRING	1
02-10	27-608	ル'-ハ'-カハ'-	LOOPER COVER	1
02-11	27-612	シリンダ'-トップ'カハ'-	CYLINDER COVER	1
02-12	27-618	シリンダ'-カ'イト'板(左)	GUIDE PLATE (LEFT)	1
02-13	27-619	シリンダ'-カ'イト'板(右)	GUIDE PLATE (RIGHT)	1
02-14	27-620	シリンダ'トップカハ'-	CYLINDER COVER	1
02-15	71-804	針板ロックピン	PIN	2
02-16	79-604	シールスプ'リンク'	SEAL SPRING	1
02-17	79-620	板ハネ	SPRING	1
02-18	84-364	ネジ'	SCREW	1
02-19	85-107	ネジ'	SCREW	1
02-20	85-522	ネジ'	SCREW	1
02-21	85-604	ネジ'	SCREW	1
02-22	85-618	ネジ'	SCREW	1
02-23	85-616	ネジ'	SCREW	1
02-24	87-128	ネジ'	SCREW	2
02-25	87-181	ネジ'	SCREW	1
02-26	87-269	ネジ'	SCREW	6
02-27	87-677	ネジ'	SCREW	14
02-28	87-678	シリンダ'-カハ'-ネジ'ピ'シ	SCREW PIN	1
02-29	98-658	ピン	PIN	1
02-30	98-662	カッター-(下)	CHAIN-OFF CUTTING KNIFE (LOWER)	1
02-31	98-663	カッター-(上)	CHAIN-OFF CUTTING KNIFE (UPPER)	1
02-32	98-665	タ'ストジ'ルハ'ネ	SPRING	1
02-33	98-670	スプ'リンク'サホ'-トスタット'	SPRING SUPPORT STUD	1
02-34	98-734	オイルカ'-ジ'	OIL GAUGE	1
02-35	23-189	O-リング'	O-RING	1
02-36	75-441	ワッシャ	WASHER	1
02-37	87-812	ネジ'	SCREW	1
02-38	27-645	安全カバー	COVER	1

### 3. 糸調子機構 THREAD TENSION MECHANISM



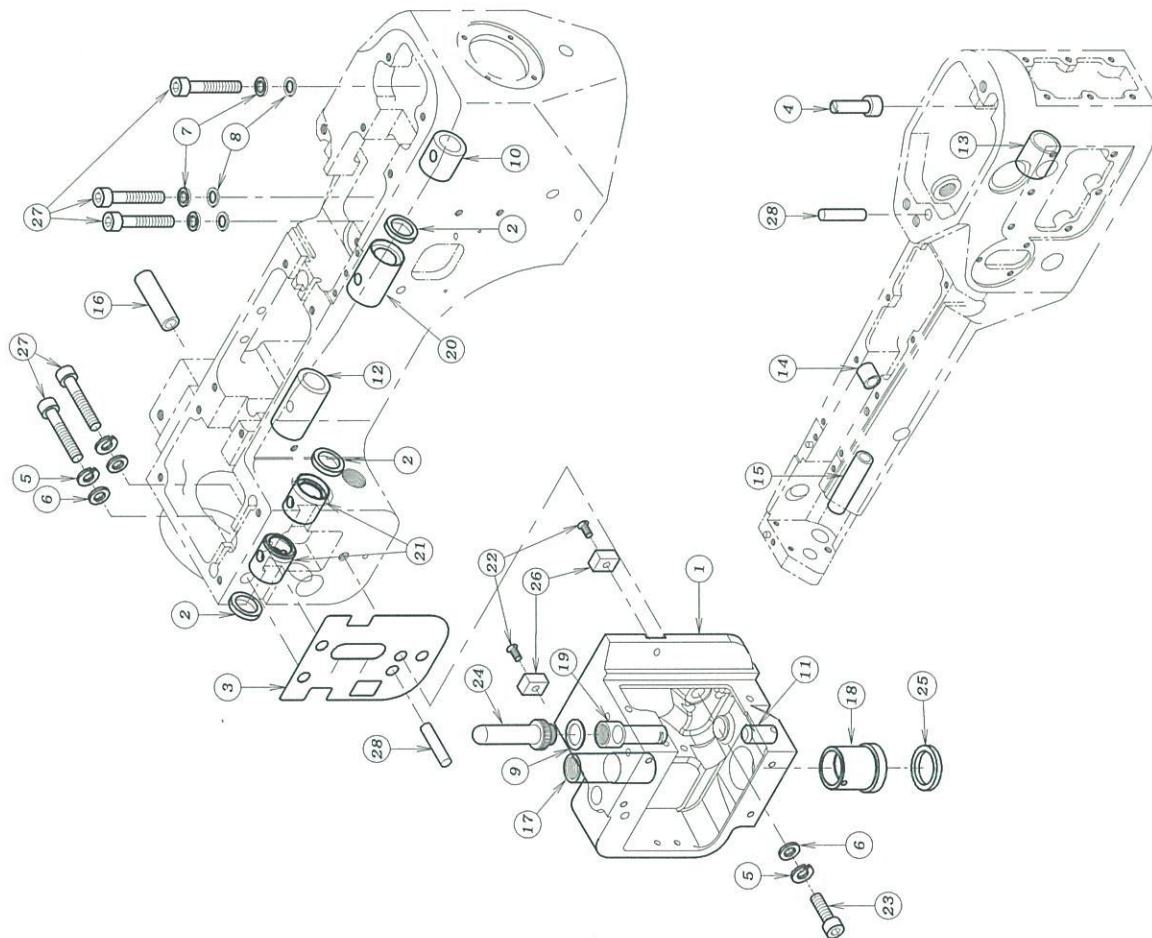
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
03-01	23-341	フェルト	FELT	1
03-02	25-217	ハ°イフ°取付金具	LATCH	2
03-03	27-551	シリコンタンク	SILICONE OIL RESERVOIR	1
03-04	27-552	シリコンタンクフ°ラケット	BRACKET	1
03-05	27-553	シリコンタンクカバー°	COVER	1
03-06	27-554	フェルト受け	FELT STAY	1
03-07	27-555	フェルト	FELT	4
03-08	41-105	チャンポン皿ラチェット	SPRING POST	6
03-09	41-509	チャンポン°ン皿	TENSION DISC	12
03-10	41-160	チャンポン°ン調子棒	TENSION POST	6
03-11	41-603	糸緩めヒ°ン	PIN	7
03-12	41-604	糸緩めカム	TENSION RELEASE SHAFT	1
03-13	41-605	テンション保持台	THREAD TENSION SUPPORT	1
03-14	41-606	フ°レントフ°ラケット	BRACKET	2
03-15	41-607	チャンポン°ン台糸道	THREAD EYELET	3
03-16	41-608	調子ナット	NUT	6
03-17	45-517	糸カ°イト°ハ°イフ°	PIPE	2
03-18	45-618	糸案内板	THREAD GUIDE PLATE	1
03-19	45-625	糸案内糸道	THREAD EYELET	4
03-20	45-620	糸案内板支柱	SUPPORT SCREW	2
03-21	45-621	テンション台止メネジ°	SCREW	2
03-22	98-725	スフ°リンク°ヒ°ン	SPRING PIN	1
03-23	75-455	ワッシャ	WASHER	3
03-24	79-602	テンション緩めハ°ネ	TENSION RELEASE SHAFT SPRING	1
03-25	79-626	ル°バー°糸調子ハ°ネ	LOOPER THREAD TENSION SPRING	1
03-26	79-627	飾り糸調子ハ°ネ	TOP COVER THREAD TENSION SPRING	1
03-27	79-628	針糸調子ハ°ネ	NEEDLE THREAD TENSION SPRING	4
03-28	84-374	ネジ°	SCREW	1
03-29	84-574	ネジ°	SCREW	6
03-30	87-096	ネジ°	SCREW	2
03-31	87-482	プラマイナ°ベ°小ねじ	SCREW	4
03-32	87-212	ネジ°	SCREW	2
03-33	87-252	六角穴付きボルト	BOLT	2
03-34	93-724	スフ°リンク°ヒ°ン	SPRING PIN	1

# 4. 糸道機構 THREAD EYELET MECHANISM



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
04-01	67-611	針線糸道取付台	THREAD EYELET LEVER	1
04-02	43-607	下糸倒き板	SUPPORTING PLATE	1
04-03	43-608	下糸倒きブラケット	BRACKET	1
04-04	43-609	下糸倒き案内	THREAD TAKE-UP EYELET	1
04-05	43-610	下糸倒き糸ガイド	THREAD GUIDE	1
04-06	43-611	下糸倒き板糸道A	THREAD EYELET	1
04-07	43-612	下糸倒き板糸道B	THREAD EYELET	1
04-08	45-246	上糸ガイド・ハ-	GUIDE PIN	1
04-09	45-543	糸道	THREAD EYELET	4
04-10	45-553	ホルダ-	HOLDER	1
04-11	45-626	針線糸道	THREAD EYELET	1
04-12	45-612	上糸倒き糸道(B)	THREAD EYELET	1
04-13	45-613	スフ・リンク・ホルダ-	HOLDER	1
04-14	45-614	糸受フ・ラケット A	BRACKET	1
04-15	45-615	糸受フ・ラケット B	BRACKET	1
04-16	45-616	上糸受け	NEEDLE THREAD STRIKE-OFF PIN	4
04-17	45-617	上倒り糸道	THREAD EYELET	1
04-18	45-622	上糸倒き糸道(A)	THREAD EYELET	1
04-19	45-624	糸案内糸道	THREAD EYELET	1
04-20	47-601	ルーハ-糸ガイド	LOOPER THREAD GUIDE	1
04-21	79-621	スフ・リンク	SPRING	1
04-22	87-288	ネジ	SCREW	2
04-23	84-167	ネジ	SCREW	2
04-24	85-611	ネジ	SCREW	2
04-25	87-078	ネジ	SCREW	2
04-26	87-093	ネジ	SCREW	2
04-27	87-096	ネジ	SCREW	2
04-28	87-104	ネジ	SCREW	3
04-29	87-106	ネジ	SCREW	8
04-30	87-128	ネジ	SCREW	1
04-31	87-129	六角穴付きボルト	SCREW	2
04-32	87-166	ネジ	BOLT	2
04-33	87-177	六角穴付きボルト	BOLT	3
04-34	87-212	ネジ	SCREW	1
04-35	87-603	ネジ	SCREW	2
04-36	98-624	ルーハ-糸ガイド・ワイヤ-	LOOPER THREAD GUIDE WIRE	1
04-37	87-214	六角穴付きボルト	BOLT	1
04-38	27-643	針糸道カバー	THREAD EYELET GUARD COVER	1
04-39	75-674	ワッシャ	WASHER	1

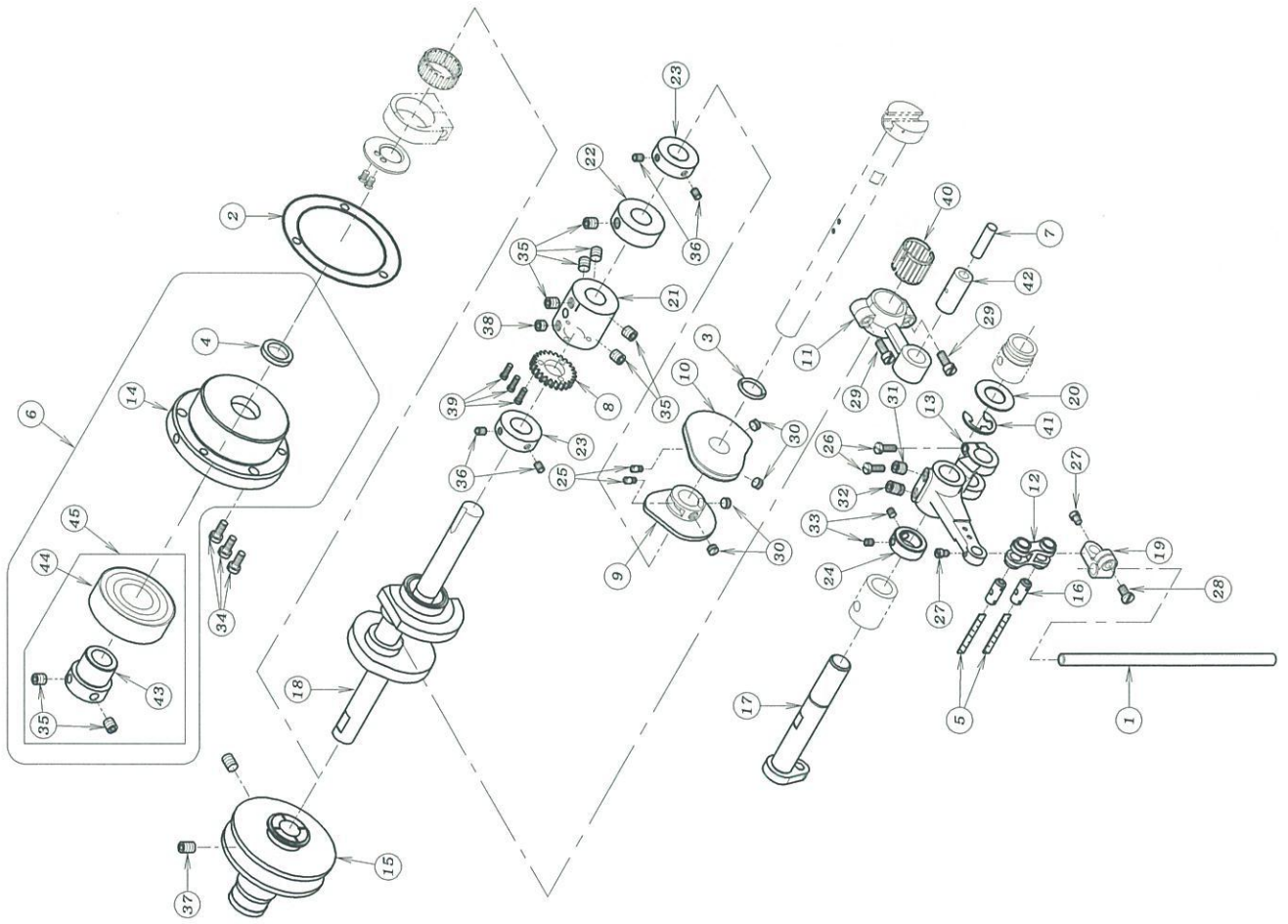
# 5. ブッシュ機構 BUSHING



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
05-01	22-659	針棒ハウジング*	NEEDLE BAR HOUSING	1
05-02	23-625	オイルシール	OIL SEAL	3
05-03	27-642	スペーサー	SPACER	1
05-04	71-662	エキセンピン	ECCENTRIC PIN	1
05-05	75-527	スプリング ワッシャ	SPRING WASHER	3
05-06	75-552	ワッシャ	WASHER	3
05-07	75-554	スプリングワッシャ	SPRING WASHER	3
05-08	75-555	ワッシャ	WASHER	3
05-09	75-615	シールワッシャ	SEAL WASHER	1
05-10	81-626	ブッシュ	BUSHING	1
05-11	81-627	針棒ワッシャ (下)	BUSHING	1
05-12	81-629	ブッシュ	BUSHING	1
05-13	81-633	ルーフワッシャ (前)	BUSHING	1
05-14	81-634	ルーフワッシャ (後)	BUSHING	1
05-15	81-635	ルーフワッシャ (後)	BUSHING	1
05-16	81-641	押エスライド用ブッシュ	BUSHING	1
05-17	81-642	押えワッシャ (上)	BUSHING	1
05-18	81-656	上メス台ワッシャ	BUSHING	1
05-19	81-646	針棒ワッシャ (上)	BUSHING	1
05-20	81-650	メインシャフトブッシュ後	BUSHING	1
05-21	81-655	ブッシュ	BUSHING	2
05-22	84-462	ネジ	SCREW	2
05-23	87-173	六角穴付きボルト	BOLT	1
05-24	87-611	針棒カバー	NEEDLE BAR GUARD	1
05-25	94-512	オイルシール	OIL SEAL	1
05-26	98-511	キー	KEY	2
05-27	98-803	六角穴付きボルト	BOLT	5
05-28	98-804	平行ピン	PIN	2

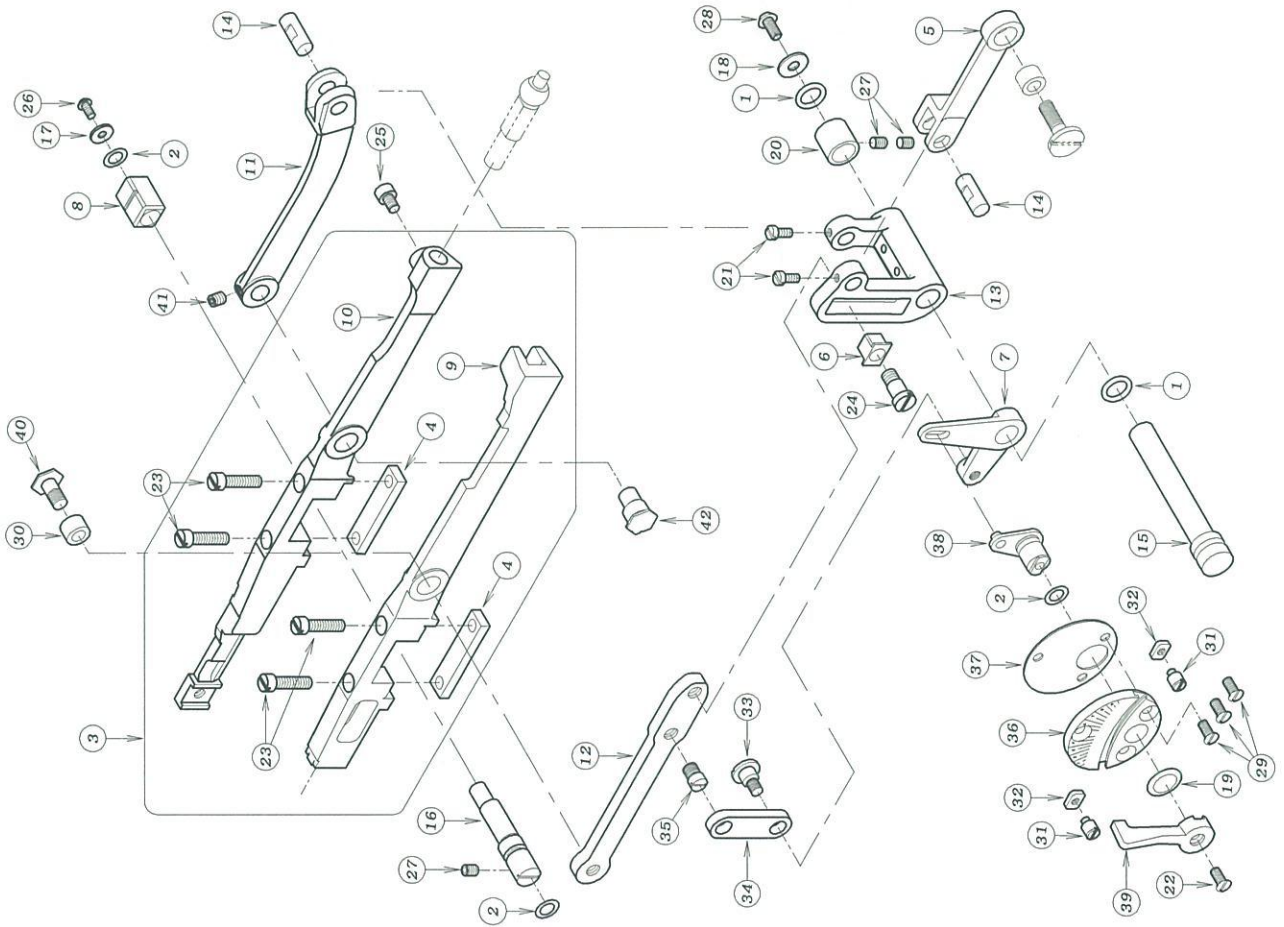


# 6. 針棒上軸機構 NEEDLE BAR MECHANISM



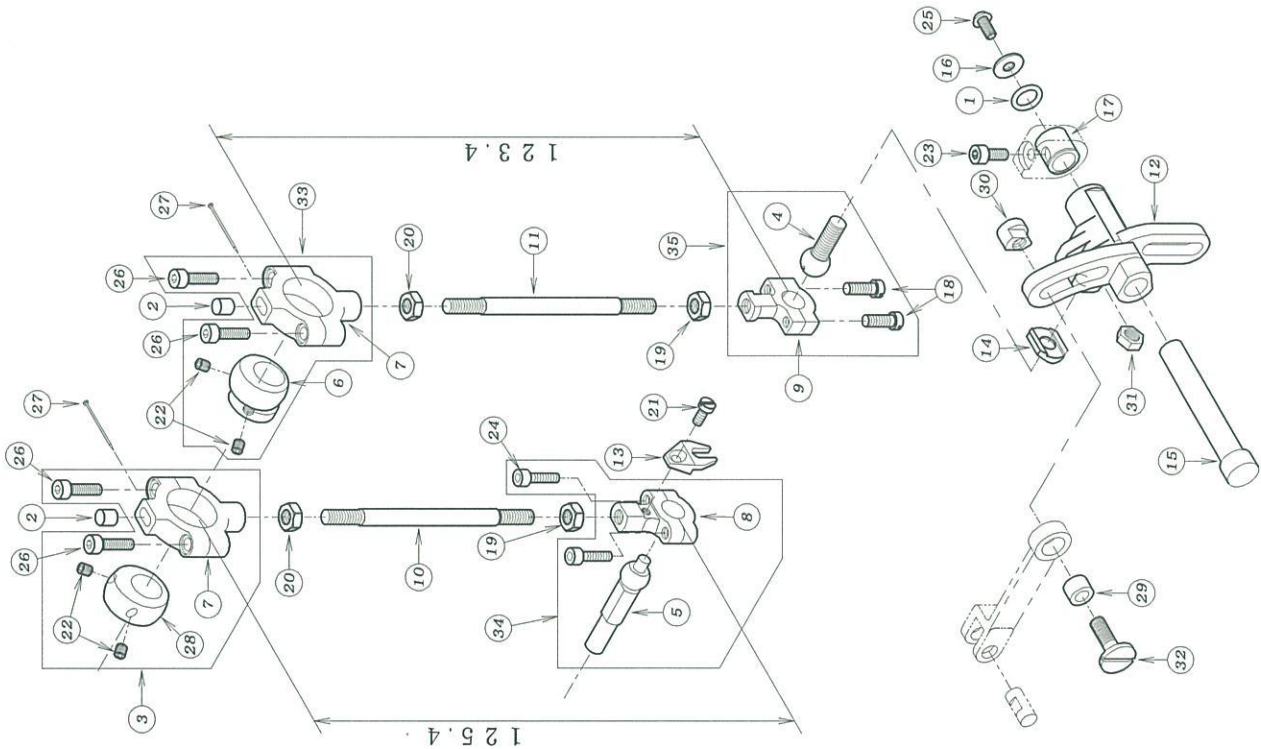
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
06-01	11-606	針棒	NEEDLE BAR	1
06-02	23-663	パッキン	GASKET	1
06-03	23-192	O-リング	O-RING	1
06-04	23-625	オイルシール	OIL SEAL	1
06-05	23-341	フェルト	FELT	2
06-06	60-6020	へ'アリンク' フレレンジ' セット	BEARING ASS'Y	1
06-07	23-623	フェルト	FELT	1
06-08	31-649	ホ'ンプ' 駆動キ' ヤー	PUMP DRIVING GEAR	1
06-09	49-604	上衝り調節器	TOP COVER THREAD TAKE-UP	1
06-10	49-605	下糸調節器	LOOPER THREAD TAKE-UP	1
06-11	63-642	針棒コネクタロッド	NEEDLE BAR LEVER CONNECTING ROD	1
06-12	66-111	連結メカ' ネ	CONNECTING LINK	1
06-13	67-603	ニート' ルレハ' -	NEEDLE LEVER	1
06-14	69-623	へ'アリンク' フレレンジ'	FLANGE	1
06-15	69-625	プ' リー	PULLEY	1
06-16	71-432	メカ' ネヒ' ン	FEED ROCKER LINK PIN	2
06-17	71-850	弓ヒ' ン	KNIFE DRIVE LEVER	1
06-18	71-817	クランクシャフト	CRANK SHAFT	1
06-19	73-113	針棒クランプ	NEEDLE BAR CLAMP	1
06-20	75-447	ワッシヤ	WASHER	1
06-21	75-607	シ' ヨイントカラー	JOINT	1
06-22	75-608	カラ-	COLLAR	1
06-23	75-609	カラ-	COLLAR	2
06-24	75-619	カラ-	COLLAR	1
06-25	84-114	ネジ	SCREW	2
06-26	84-358	ネジ	SCREW	2
06-27	84-365	ネジ	SCREW	2
06-28	84-564	ネジ	SCREW	1
06-29	84-572	ネジ	SCREW	2
06-30	84-711	ネジ	SCREW	4
06-31	85-113	ネジ	SCREW	1
06-32	85-115	ネジ	SCREW	1
06-33	87-106	ネジ	SCREW	2
06-34	87-145	ネジ	SCREW	3
06-35	87-172	ネジ	SCREW	8
06-36	87-181	ネジ	SCREW	4
06-37	87-242	ネジ	SCREW	2
06-38	87-259	ネジ	SCREW	1
06-39	87-669	ネジ	SCREW	3
06-40	91-306	へ'アリンク'	BEARING	1
06-41	93-202	E-リング	E-RING	1
06-42	98-547	針棒コネクタロッド' ヒ' ン	NEEDLE LEVER CONNECTING ROD PIN	1
06-43	69-624	へ'アリンク' スリーブ	SLEEVE	1
06-44	91-994	ボールベアリング	BEARING	1
06-45	60-6010	へ'アリンク' セット	BEARING ASS'Y	1

# 7. 送り機構 (1) FEED MECHANISM (1)



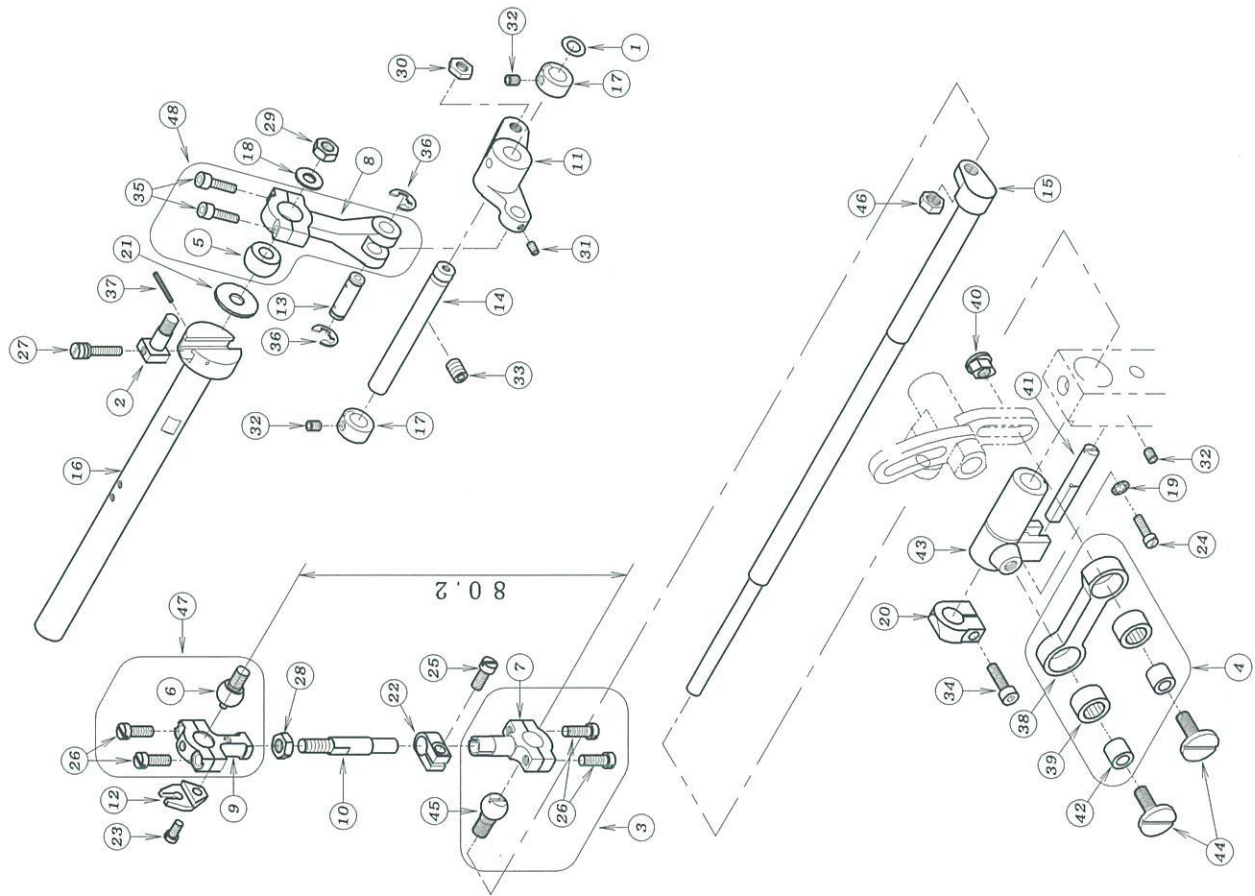
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
07-01	23-537	リンク	O-RING	2
07-02	23-615	リンク	O RING	3
07-03	50-6000	送り土台組	FEED BAR ASS'Y	1
07-04	51-611	送りレハ'-フ'レート	FEED BAR PLATE	2
07-05	51-612	フィードロッカードライブリンク	FEED ROCKER DRIVING LINK	1
07-06	51-613	角コ'マ	SLIDE BLOCK	1
07-07	51-615	差動レハ'-	DIFFERENTIAL FEED ADJUSTING LEVER	1
07-08	51-617	送り角コ'マ	FEED BAR SLIDE BLOCK	1
07-09	51-619	差動送りレハ'-	DIFFERENTIAL FEED BAR	1
07-10	51-621	主送りレハ'-	MAIN FEED BAR	1
07-11	51-625	主送りドライブリンク	MAIN FEED BAR DRIVE LINK	1
07-12	51-623	差動送りドライブリンク	DIFFERENTIAL FEED BAR DRIVE LINK	1
07-13	51-624	フィードロッカー	FEED ROCKER	1
07-14	71-663	リンクピ'ン	LINK PIN	2
07-15	71-664	フィードロッカーシャフト	FEED ROCKER SHAFT	1
07-16	71-940	送りレハ'-エキセンピ'ン	FEED BAR ECCENTRIC PIN	1
07-17	75-227	ワッシャ	WASHER	1
07-18	75-467	ワッシャ	WASHER	1
07-19	79-603	皿ハ'ネ	SPRING	1
07-20	81-616	フ'ツシユ	BUSHING	1
07-21	84-164	ネジ'	SCREW	2
07-22	84-462	ネジ'	SCREW	1
07-23	84-568	ネジ'	SCREW	4
07-24	84-653	ネジ'	SCREW	1
07-25	87-092	六角穴付きボルト	BOLT	1
07-26	87-099	ネジ'	SCREW	1
07-27	87-181	ネジ'	SCREW	3
07-28	87-272	ネジ'	SCREW	1
07-29	87-679	ネジ'	SCREW	3
07-30	98-573	フ'ツシユ	BUSHING	1
07-31	98-671	ナット	NUT	2
07-32	98-651	ナット	NUT	2
07-33	98-740	ネジ'	SCREW	1
07-34	98-741	差動リンク	LINK	1
07-35	98-744	ネジ'	SCREW	1
07-36	98-745	差動目盛り板	ADJUSTING PLATE	1
07-37	98-746	ハ'ツギン	GASKET	1
07-38	98-748	差動レハ'- (B)	DIFFERENTIAL FEED ADJUSTING LEVER	1
07-39	98-749	差動フ'-A	OPERATING LEVER	1
07-40	98-880	ネジ'	SCREW	1
07-41	84-521	ネジ'	SCREW	1
07-42	98-575	主送りエキセンピ'ン	MAIN FEED BAR ECCENTRIC PIN	1

# 8. 送り機構 (2) FEED MECHANISM (2)



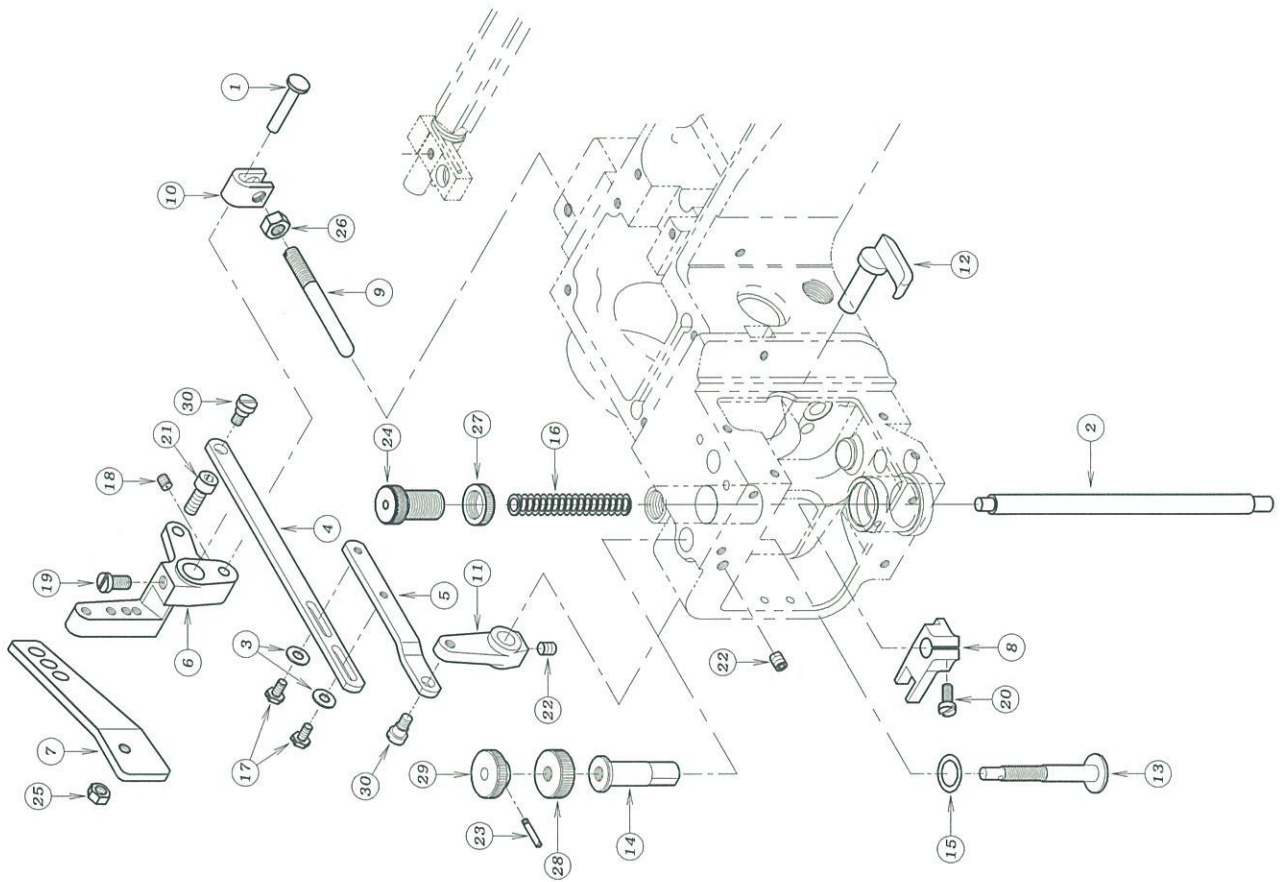
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
08-01	23-537	Oリング	O-RING	1
08-02	23-616	フェルト	FELT	2
08-03	60-6110	送り上下エキセンセット	FEED LIFT ECCENTRIC ASS'Y	1
08-04	61-607	連結ロッド'玉	CONNECTING ROD BALL	1
08-05	61-612	ロッド玉	BALL JOINT	1
08-06	61-614	送り前後エキセン	ECCENTRIC	1
08-07	63-609	エキセンロッド	ECCENTRIC ROD	2
08-08	63-612	連結ロッド	CONNECTING ROD	1
08-09	63-826	連結棒	CONNECTING ROD	1
08-10	65-601	連結棒	CONNECTING ROD	1
08-11	65-604	連結棒	CONNECTING ROD	1
08-12	67-610	フィート'ロッカー	FEED ROCKER	1
08-13	69-616	ロッド'振れ止め	GUIDE	1
08-14	69-617	振れ止め	STEADY WASHER	1
08-15	71-669	フィート'ロッカー'シャフト	FEED ROCKER SHAFT	1
08-16	75-467	ワッシャ	WASHER	1
08-17	81-616	フ'ッシユ	BUSHING	1
08-18	84-635	ネジ'	SCREW	2
08-19	86-411	ナット	NUT	2
08-20	86-412	ナット	NUT	2
08-21	87-010	ネジ'	SCREW	1
08-22	87-106	ネジ'	SCREW	4
08-23	87-113	六角穴付きボルト	BOLT	1
08-24	87-315	六角穴付きボルト	BOLT	2
08-25	87-272	ネジ'	SCREW	1
08-26	87-299	六角穴付きボルト	BOLT	4
08-27	93-625	フェルトピ'ン	PIN	2
08-28	98-557	送り上下エキセン	ECCENTRIC BALL JOINT	1
08-29	98-573	フ'ッシユ	BUSHING	1
08-30	98-819	ナット	NUT	1
08-31	98-876	ナット	NUT	1
08-32	98-881	ネジ'	SCREW	1
08-33	60-6150	送り前後エキセンセット	FEED DRIVE ECCENTRIC ASS'Y	1
08-34	60-6130	送り台コネクタロッド玉セット	CONNECTING ROD ASS'Y	1
08-35	60-6160	送り台連結ロッド玉セット	CONNECTING ROD ASS'Y	1

# 9. ルーパ-機構 LOOPER MECHANISM



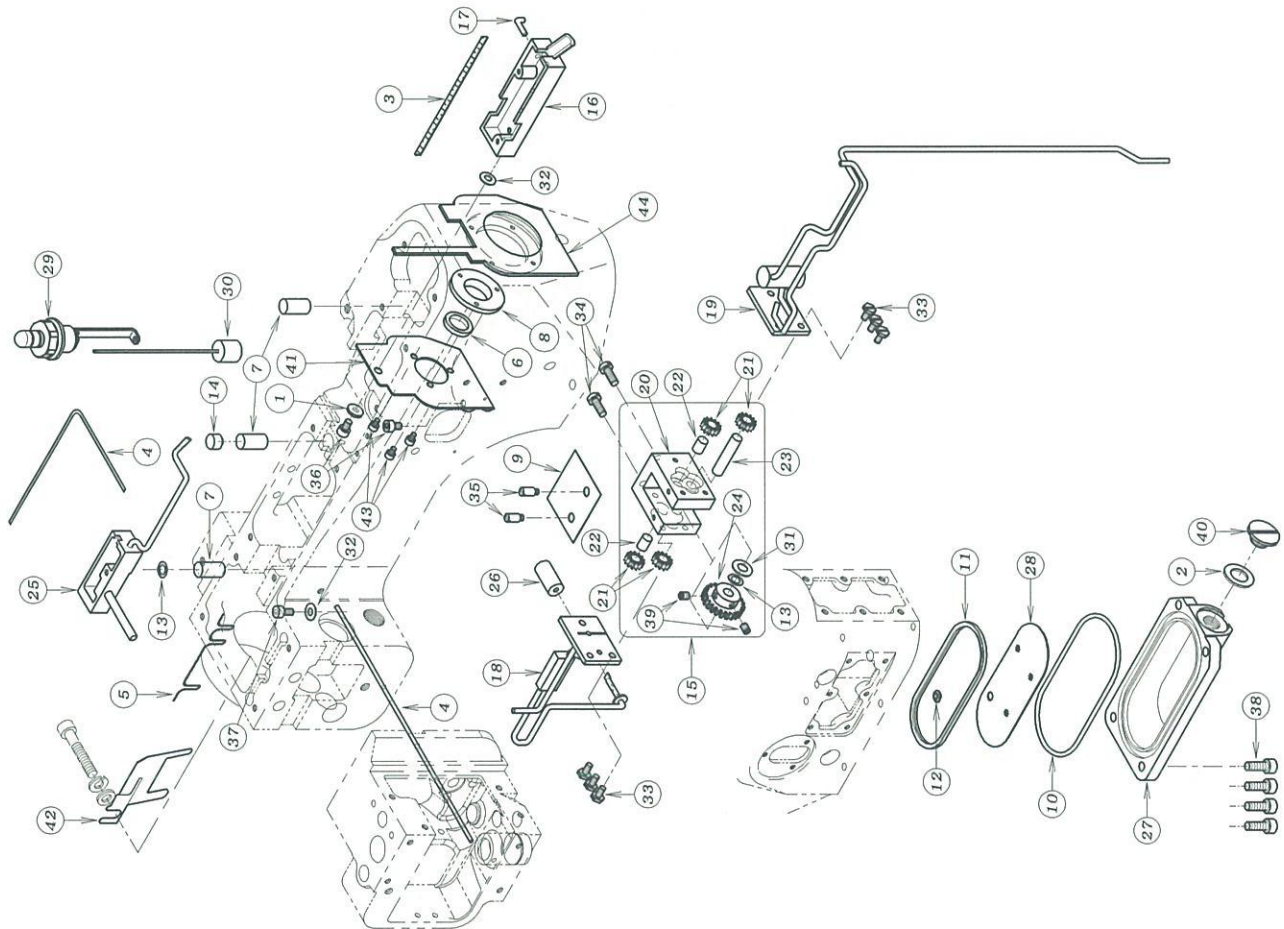
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
09-01	23-183	O-リング*	O-RING	1
09-02	51-620	送り調節機構	LOOPER DRIVING CRANK PIN	1
09-03	60-6070	ルーパ-連結ロッド玉セット	CONNECTING ROT ASS'Y	1
09-04	60-6080	ルーパ-前後リンクセット	CONNECTING LINK ASS'Y	1
09-05	61-615	ルーパ-振元レハ-ロッド玉	BALL JOINT	1
09-06	61-616	ルーパ-コネクタロッド玉	BALL JOINT	1
09-07	63-607	連結ロッド	CONNECTING ROD	1
09-08	63-625	ルーパ-振り元レハ-	LOOPER DRIVING ROD	1
09-09	63-626	ルーパ-連結ロッド* (上)	CONNECTING ROD	1
09-10	65-605	ルーパ-ロッド* 連結棒	CONNECTING BAR	1
09-11	67-609	ルーパ-振り元レハ-B	LEVER	1
09-12	69-619	小ロッド用振れ止め	STEADY FORK	1
09-13	71-808	連結ヒ-ン	PIN	1
09-14	71-813	ルーパ-レハ-支軸	SHAFT	1
09-15	71-815	ルーパ-ドライブシャフト	LOOPER DRIVE SHAFT	1
09-16	71-816	メインシャフト	MAIN SHAFT	1
09-17	75-152	カラー	COLLAR	2
09-18	75-453	ワッシャ	WASHER	1
09-19	75-610	ワッシャ	WASHER	1
09-20	75-611	カラー	COLLAR	1
09-21	75-614	ワッシャ	WASHER	1
09-22	75-616	連結ロッドクランプ	COLLAR	1
09-23	84-362	ネジ*	SCREW	1
09-24	84-367	ネジ*	SCREW	1
09-25	84-572	ネジ*	SCREW	1
09-26	84-635	ネジ*	SCREW	4
09-27	84-645	送り調節ネジ	SCREW	1
09-28	86-411	ナット	NUT	1
09-29	86-412	ナット	NUT	1
09-30	86-413	ナット	NUT	1
09-31	87-139	ネジ*	SCREW	1
09-32	87-181	ネジ*	SCREW	3
09-33	87-242	ネジ*	SCREW	1
09-34	87-299	六角穴付きボルト	BOLT	1
09-35	87-315	ネジ*	SCREW	2
09-36	93-213	E型止め輪	E-RING	2
09-37	93-601	スプリングヒ-ン	SPRING PIN	1
09-38	98-591	連結メカネ	CONNECTING BAR	1
09-39	98-593	ベアリング	BEARING	2
09-40	98-597	ナット	NUT	1
09-41	98-599	ヒ-ン	PIN	1
09-42	98-601	ベアリングインナーレース	BEARING SLEEVE	1
09-43	98-604	ルーパ-シャフトスリーブ*	LOOPER SHAFT SLEEVE	2
09-44	98-864	ネジ	SCREW	2
09-45	98-875	連結ロッド* 玉	CONNECTING ROD BALL	1
09-46	98-876	ナット	NUT	1
09-47	60-6190	ルーパ-連結ロッド玉セット	CONNECTING ROT ASS'Y	1
09-48	60-6200	ルーパ-振元レハ-玉セット	CONNECTING ROT ASS'Y	1

# 10. 押え揚げ機構 PRESSER FOOT MECHANISM



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
10-01	71-806	ピン	PIN	1
10-02	71-818	押え棒	PRESSER BAR	1
10-03	75-455	ワッシャー	WASHER	2
10-04	77-605	押え揚げ連結リンク (A)	LIFTER LEVER LINK (A)	1
10-05	77-606	押え揚げ連結リンク (B)	LIFTER LEVER LINK (B)	1
10-06	77-610	押え揚げレバ -	LEVER	1
10-07	77-612	押え揚げ連結レバ -	LEVER	1
10-08	77-614	押え棒カ・イト	PRESSER BAR GUIDE	1
10-09	77-615	押え揚げレバ - カ・イト・ピン	GUIDE PIN	1
10-10	77-616	押え揚げレバ - 用ラッチ	LATCH	1
10-11	77-617	押え揚げレバ - (A)	LEVER	1
10-12	77-618	押え揚げレバ - (B)	LEVER	1
10-13	77-621	押え高を調節ネジ	ADJUSTING SCREW	1
10-14	77-622	押え棒カ・イト	PRESSER BAR GUIDE	1
10-15	23-190	Oリング	O RING	1
10-16	79-622	押え棒カ・ネ	SPRING	1
10-17	84-412	ネジ	SCREW	2
10-18	84-521	ネジ	SCREW	1
10-19	84-762	ネジ	SCREW	1
10-20	87-145	ネジ	SCREW	1
10-21	87-224	六角穴付きボルト	BOLT	1
10-22	87-254	ネジ	SCREW	2
10-23	87-603	ネジ	SCREW	1
10-24	87-604	押え棒筒ネジ	SCREW	1
10-25	88-157	ナット	NUT	1
10-26	88-166	ナット	NUT	1
10-27	88-600	ナット	NUT	1
10-28	88-601	ロックナット	NUT	1
10-29	88-602	調節ナット	NUT	1
10-30	98-677	ネジ	SCREW	2

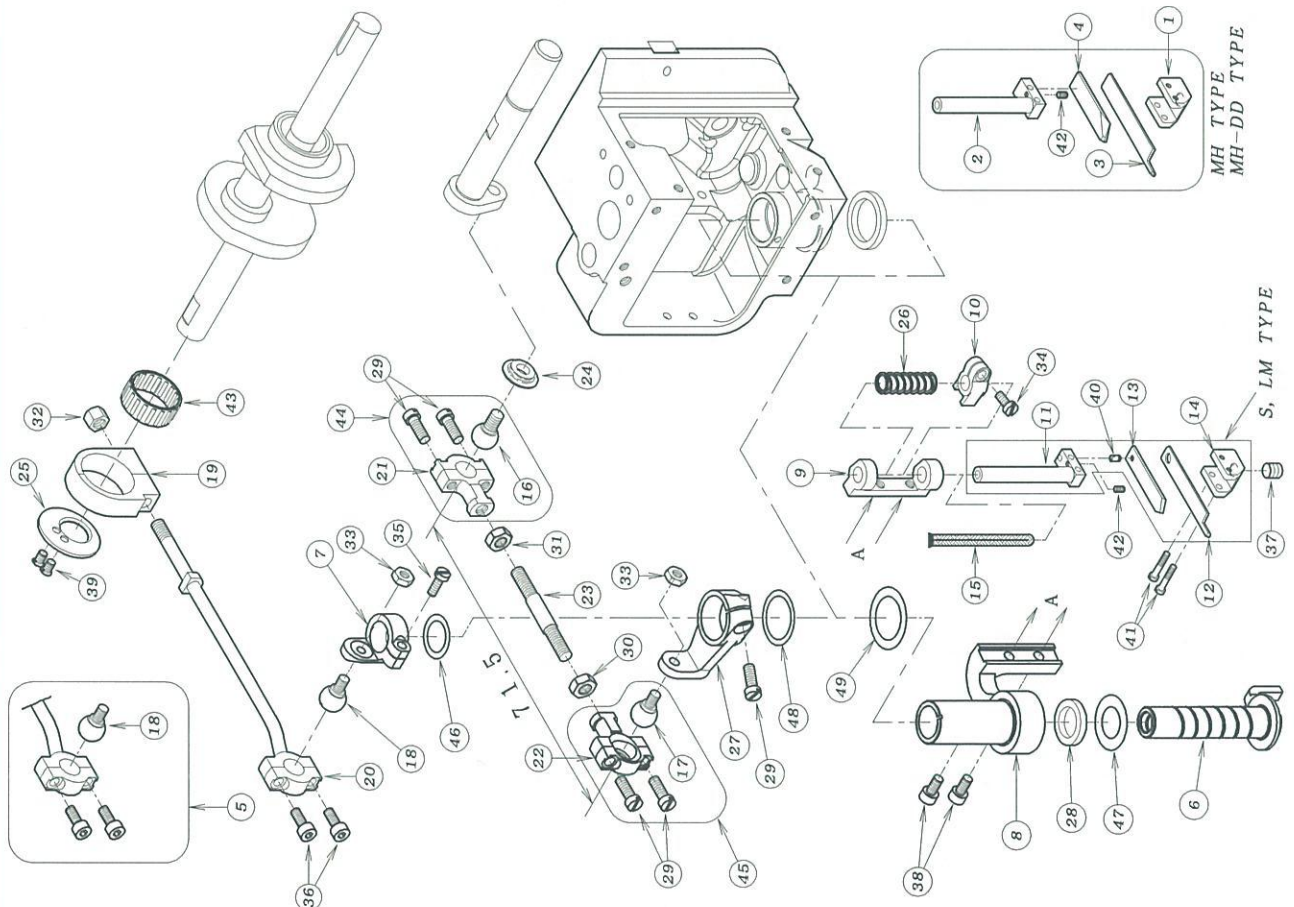
# 11. 給油機構 LUBRICATION MECHANISM



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
11-01	23-160	配管止メシール	SEAL WASHER	1
11-02	23-304	シール	SEAL	1
11-03	23-341	フェルト	FELT	1
11-04	23-556	フェルト	FELT	2
11-05	23-603	セール	OIL WICK	1
11-06	23-625	オイルシール	OIL SEAL	1
11-07	23-605	フェルト	FELT	3
11-08	98-544	オイルシールブラケット	OIL SEAL BRACKET	1
11-09	23-607	ハウジングハッキン	GASKET	1
11-10	23-608	オリング	O RING	1
11-11	23-609	油ろ過網ハッキン	RUBBER SEAL	1
11-12	23-610	ゴムフッ素	SEAL	1
11-13	23-615	オリング	O RING	2
11-14	25-526	詰め栓	PLUG	1
11-15	30-0300	ホンプセツト	PUMP ASS'Y	1
11-16	31-614	オイルリサハ(前)	OIL RECEIVER (FRONT)	1
11-17	31-615	ハーフ	PIPE	1
11-18	31-616	ハウジングカハ(前)	HOUSING COVER	1
11-19	31-617	ハウジングカハ(前)	HOUSING COVER (FRONT)	1
11-20	31-637	ホンプハウジング	PUMP HOUSING	1
11-21	31-638	ホンプキ	PUMP GEAR	4
11-22	31-639	ホンプキヤシヤフト(短)	SHAFT	2
11-23	31-640	ホンプキヤシヤフト(長)	SHAFT	1
11-24	31-641	ホンプ駆動ギア	PUMP DRIVE GEAR	1
11-25	31-664	オイルリサハ(後)	OIL RECIVER	1
11-26	31-646	吸入フィルタ	FILTER	1
11-27	31-647	オイルタンク	OIL RESERVOIR	1
11-28	31-648	油ろ過網	OIL FILTER	1
11-29	39-605	オイルゲージ	OIL GAUGE	1
11-30	39-604	油量指示棒	INDICATOR	1
11-31	75-452	ワッシヤ	WASHER	1
11-32	75-455	ワッシヤ	WASHER	2
11-33	84-412	ネジ	SCREW	6
11-34	84-566	ネジ	SCREW	2
11-35	84-652	ホンプラックネジ	SCREW	2
11-36	87-092	六角穴付きボルト	BOLT	2
11-37	87-177	六角穴付きボルト	BOLT	1
11-38	87-224	六角穴付きボルト	BOLT	4
11-39	84-521	ネジ	SCREW	2
11-40	87-311	フタネジ	SCREW	1
11-41	98-536	下糸調節器シール板	SHIELD PLATE	1
11-42	98-613	オイルシール板	OIL SHIELD	1
11-43	87-142	ネジ	SCREW	3
11-44	23-606	糸罫子カム防油フェルト	FELT	1

12. 上飾り, 上メス機構

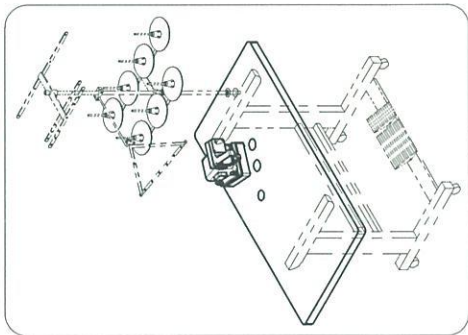
SPREADER DRIVE, UPPER KNIFE MECHANISM



REF. NO.	PART NO.	品名	DESCRIPTION	QTY
12-01	07-629	上メス抱き	KNIFE HOLDER	1
12-02	07-630	上メスシャック	KNIFE HOLDER SHANK	1
12-03	07-631	上メス	UPPER KNIFE	1
12-04	07-632	上メス補助板	KNIFE SUPPORT	1
12-05	60-6240	上飾り連結ロッド玉セット	CONNECTING ROD ASS'Y	1
12-06	04-615	上飾り駆動スリーブ*	SLEEVE	1
12-07	04-617	上飾り駆動レバ*	LEVER	1
12-08	07-636	上メス台	KNIFE HOLDER BRACKET	1
12-09	07-623	上メスホルダ*	KNIFE HOLDER	1
12-10	07-624	上メスガイド*	GUIDE BRACKET	1
12-11	07-625	上メスシャック	KNIFE HOLDER SHANK	1
12-12	07-626	上メス	UPPER KNIFE	1
12-13	07-627	上メス補助板	KNIFE SUPPORT	1
12-14	07-628	上メス抱き	KNIFE HOLDER	1
12-15	23-622	フェルト	FELT	1
12-16	61-602	上メス連結玉(右)	BALL JOINT	1
12-17	61-613	上メス連結玉(左)	BALL JOINT	1
12-18	61-617	上メス連結玉(左)	BALL JOINT	1
12-19	63-622	上メス軸受箱	DRIVING ROD	1
12-20	63-623	ロッド* 棒	DRIVING ROD BAR	1
12-21	63-624	上メス連結ロッド(A)	CONNECTING ROD	1
12-22	63-816	連結ロッド	CONNECTING ROD	1
12-23	65-642	連結棒	CONNECTING ROD	1
12-24	69-127	上メス振止め	STEADY WASHER	1
12-25	75-613	飾りエキセンプラスチック板	PLATE	1
12-26	79-625	上メス圧縮バネ	SPRING	1
12-27	04-616	上メス台駆動レバ*	LEVER	1
12-28	94-213	オイルシール	OIL SEAL	1
12-29	84-635	ネジ*	SCREW	5
12-30	86-411	ナット	NUT	1
12-31	86-412	ナット	NUT	1
12-32	86-600	ナット	NUT	1
12-33	86-601	ナット	NUT	2
12-34	87-010	ネジ*	SCREW	1
12-35	87-011	ネジ*	SCREW	1
12-36	87-113	六角穴付きボルト	BOLT	2
12-37	87-172	ネジ*	SCREW	1
12-38	87-177	六角穴付きボルト	BOLT	2
12-39	87-606	ネジ*	SCREW	2
12-40	87-607	上メス補助板止めネジ*	SCREW	1
12-41	87-608	上メス抱きセットネジ*	SCREW	2
12-42	87-609	ネジ*	SCREW	1
12-43	91-603	ベアリング*	NEEDLE BEARING	1
12-44	60-6210	上メス連結ロッド玉セット(1)	CONNECTING ROD ASS'Y (1)	1
12-45	60-6220	上メス連結ロッド玉セット(2)	CONNECTING ROD ASS'Y (2)	1
12-46	75-621	スラストワッシャ	THRUST WASHER	1
12-47	75-622	スラストワッシャ	THRUST WASHER	1
12-48	75-623	スラストワッシャ	THRUST WASHER	1
12-49	75-624	スラストワッシャ	THRUST WASHER	1

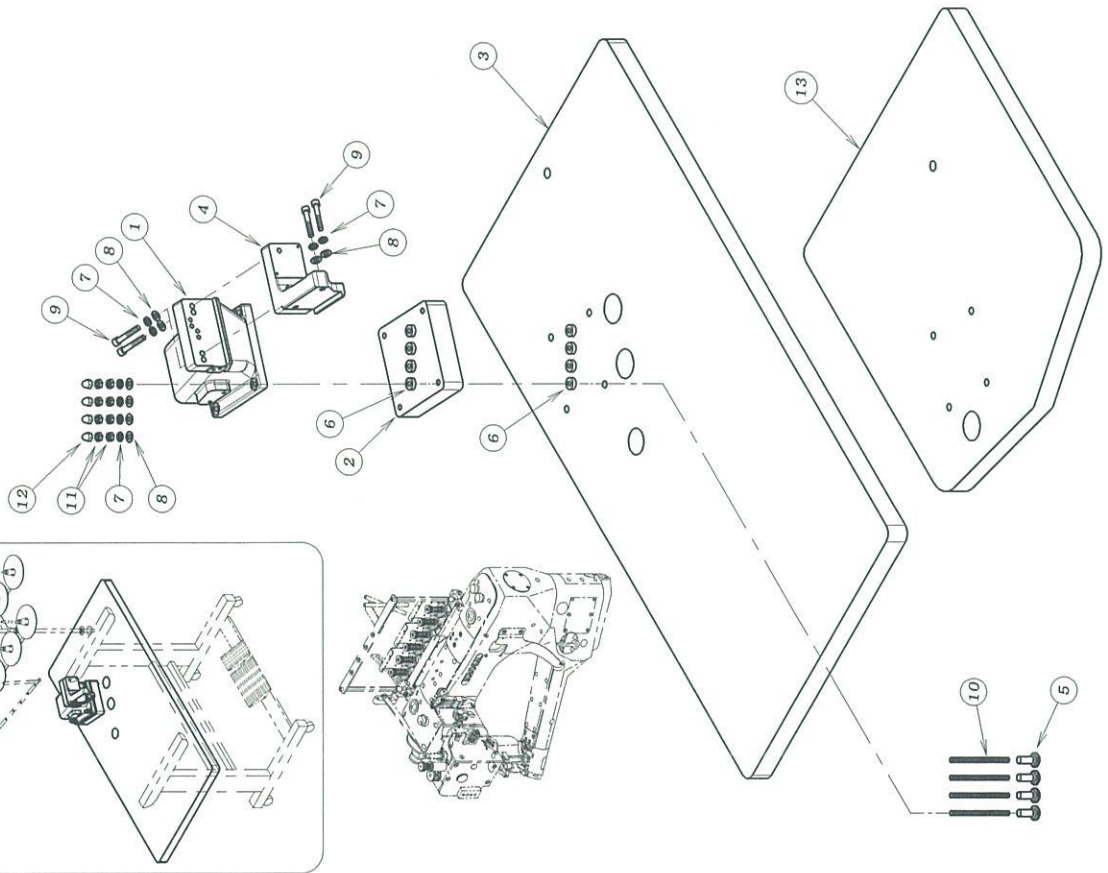
# 13. テーブル関係タイプ° (1) TABLE TYPE (1)

SET STYLE



ダイレクトモーターDDタイプ

DIRECT MOTOR DD TYPE

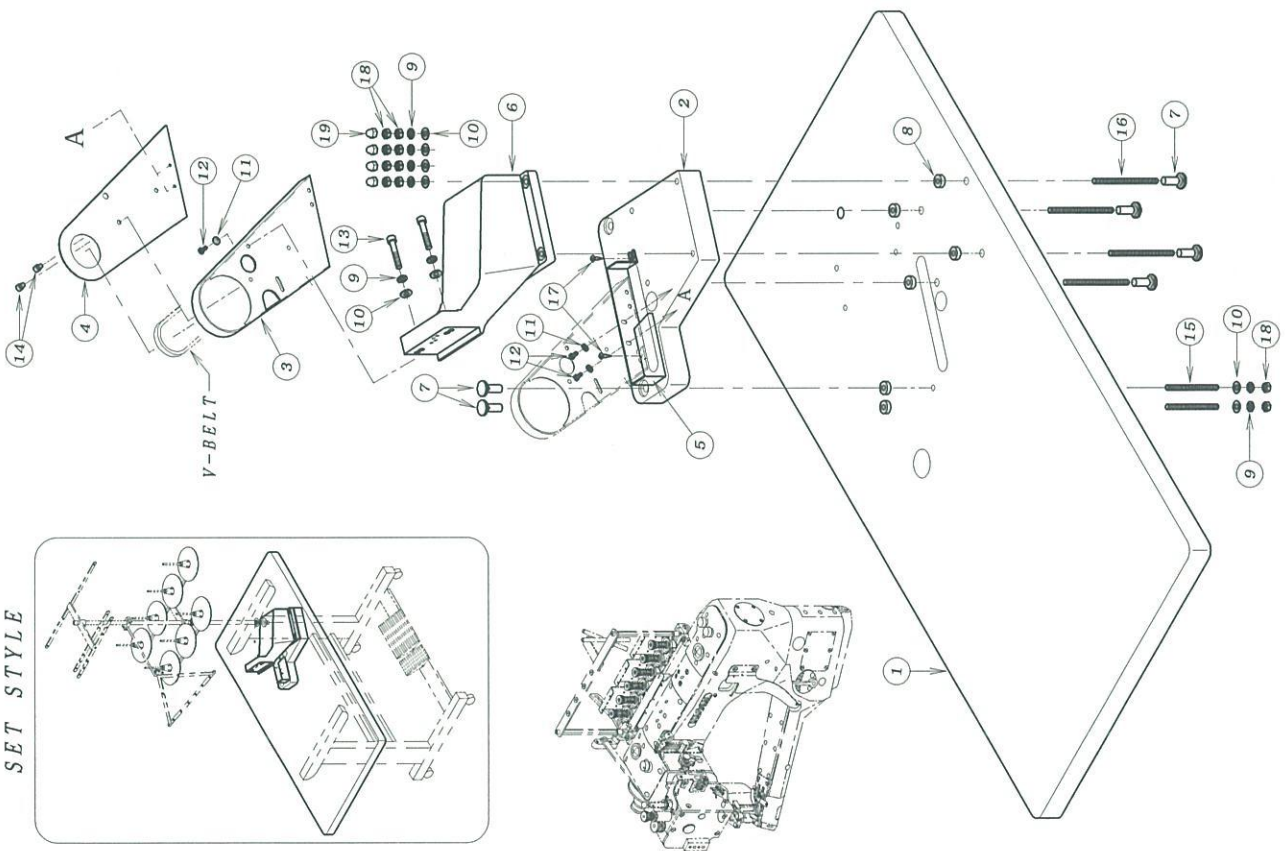


REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
13-01	22-614	マウントベース	MOUNT BASE	1
13-02	27-299	マウントベース取付け台	MOUNT BASE TABLE	1
13-03	27-300	テーブル	TABLE	1
13-04	27-635	ブラケット	BRACKET	1
13-05	42-503	本体取付ナット	NUT	4
13-06	42-513	防振ゴム	CUSHION RUBBER	8
13-07	75-225	スプリングワッシャー	SPRING WASHER	8
13-08	75-451	ワッシャー	WASHER	8
13-09	87-226	六角穴付きボルト	BOLT	4
13-10	87-675	連結ボルト	BOLT	4
13-11	88-176	ナット	NUT	8
13-12	88-183	袋ナット	NUT	4
13-13	ISX-167	ペダスタルタイプテーブル	TABLE	1



14. テーブル関係 タイプ (2) TABLE TYPE (2)

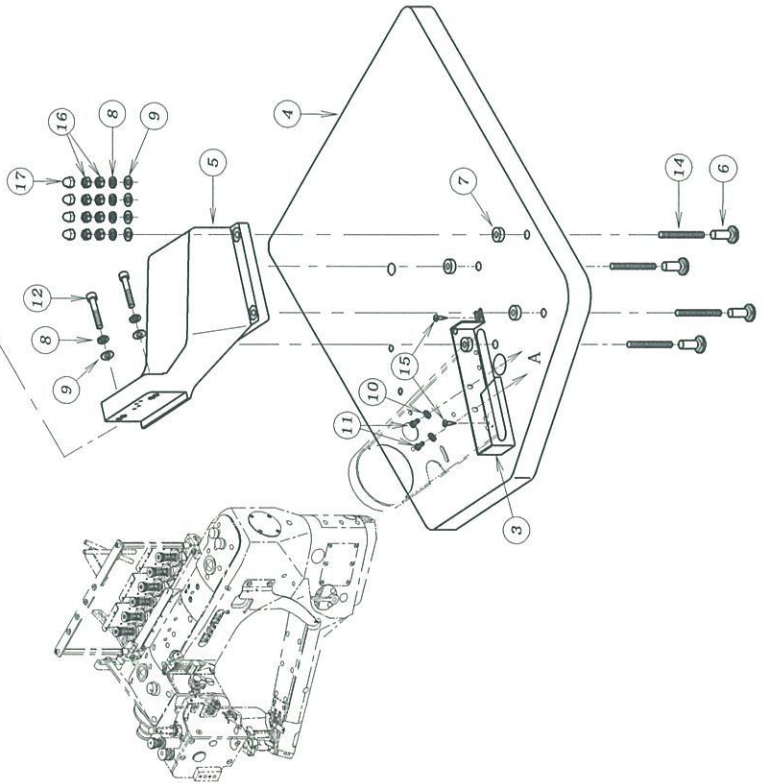
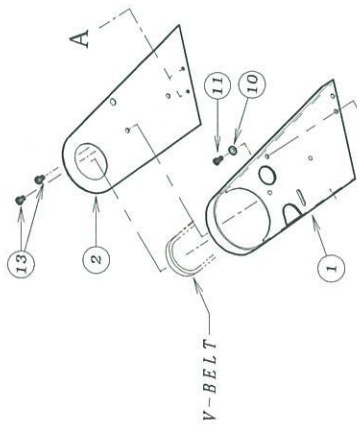
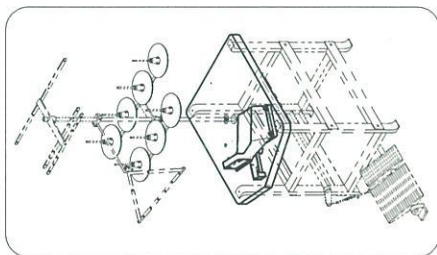
SET STYLE



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
14-01	21-969	テーブル	TABLE	1
14-02	21-971	マウントベース取付台	MOUNT BASE TABLE	1
14-03	27-623	ベルトカバー (A)	BELT COVER (A)	1
14-04	21-988	ベルトカバー (B)	BELT COVER (B)	1
14-05	21-991	ベルト補助カバー	COVER	1
14-06	22-614	マウントベース	MOUNT BASE	1
14-07	42-503	本体据付ナット	NUT	6
14-08	42-513	防振ゴム	CUSHION RUBBER	6
14-09	75-225	スプリングワッシャー	SPRING WASHER	8
14-10	75-451	ワッシャー	WASHER	8
14-11	75-453	ワッシャー	WASHER	3
14-12	87-490	プラマイナベ小ねじ	SCREW	3
14-13	87-226	六角穴付きボルト	BOLT	2
14-14	87-255	六角穴付きボルト	BOLT	2
14-15	87-674	連結ボルト (95L)	BOLT (95L)	2
14-16	87-675	連結ボルト (120L)	BOLT (120L)	4
14-17	87-901	木ネジ	SCREW	2
14-18	88-176	ナット	NUT	10
14-19	88-183	袋ナット	NUT	4

15. テーブル関係 タイプ (3) TABLE TYPE (3)

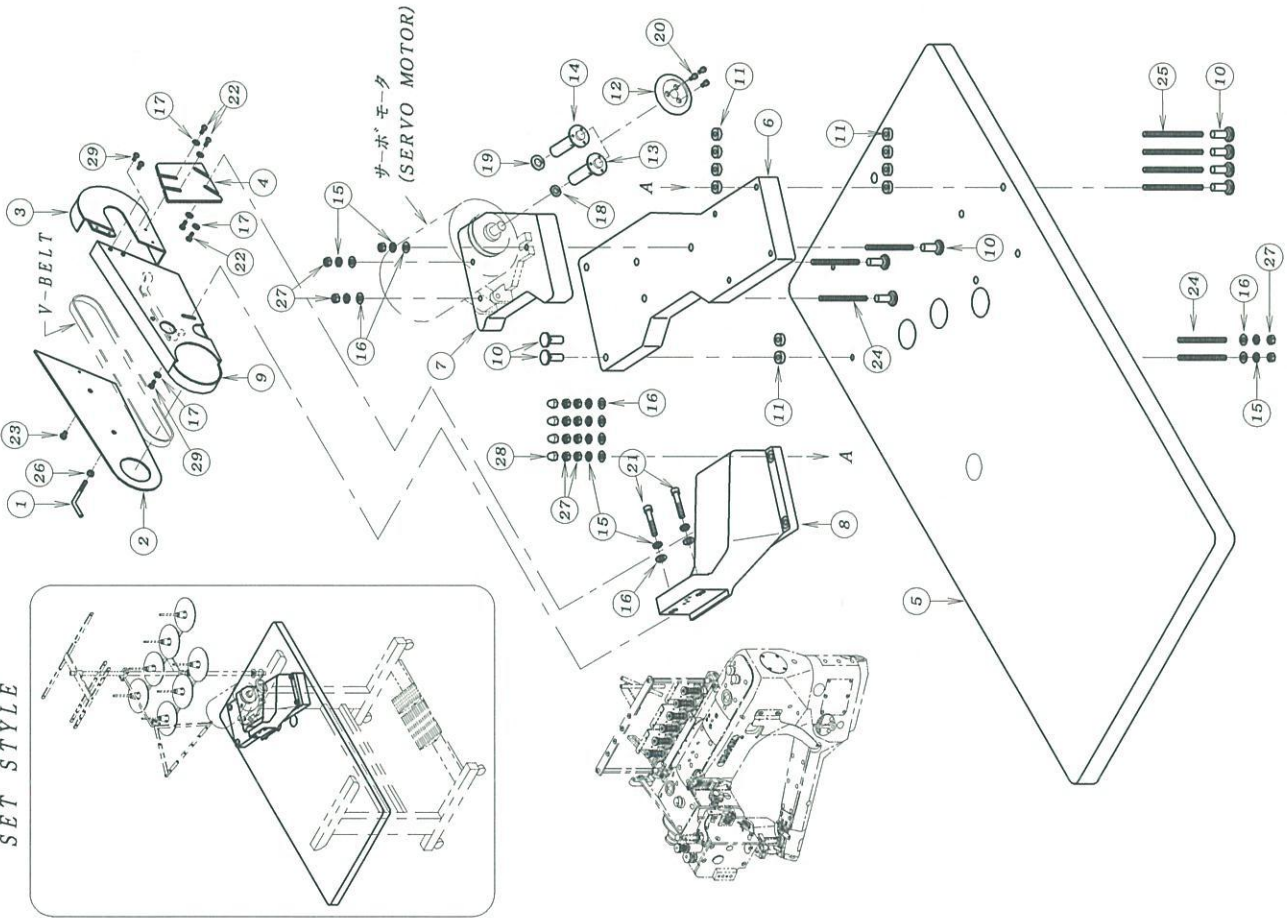
SET STYLE



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
15-01	27-623	ベルトカバー (A)	BELT COVER (A)	1
15-02	21-988	ベルトカバー (B)	BELT COVER (B)	1
15-03	21-991	ベルト補助カバー	COVER	1
15-04	21-995	テーブル	TABLE	1
15-05	22-614	マウントベース	MOUNT BASE	1
15-06	42-503	本体強付ナット	NUT	4
15-07	42-513	防振ゴム	CUSHION RUBBER	4
15-08	75-225	スプリング ワッシャ	SPRING WASHER	6
15-09	75-451	ワッシャ	WASHER	6
15-10	75-453	ワッシャ	WASHER	3
15-11	87-490	プラマイナベ小ねじ	SCREW	3
15-12	87-226	六角穴付きボルト	BOLT	2
15-13	87-492	プラマイナベ小ねじ	SCREW	2
15-14	87-673	連結ボルト (75L)	BOLT (75L)	4
15-15	87-901	木ネジ	SCREW	2
15-16	88-176	ナット	NUT	8
15-17	88-183	袋ナット	NUT	4

16. テーブル関係 タイプ (4) TABLE TYPE (4)

SET STYLE

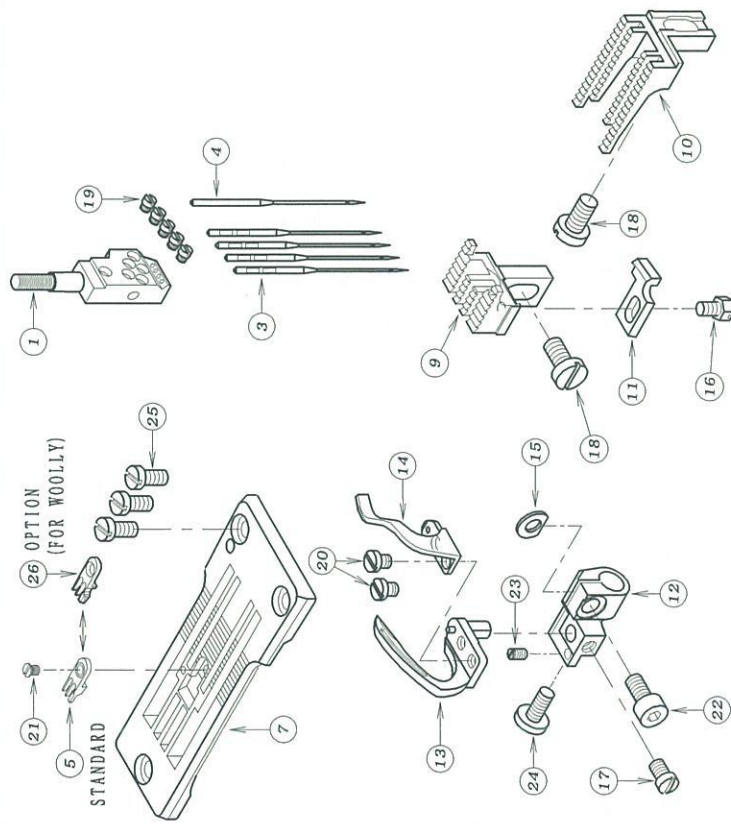


REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
16-01	06-634	検出器用止金具	BAR	1
16-02	21-988	ベルトカバー (B)	BELT COVER (B)	1
16-03	21-989	ベルトカバー (C)	BELT COVER (C)	1
16-04	21-990	ベルトカバー - 取付プレート	PLATE	1
16-05	21-992	テーブル	TABLE	1
16-06	21-993	マウントベース取付台	MOUNT BASE TABLE	1
16-07	21-994	モーター取付台	MOTOR TABLE	1
16-08	22-614	マウントベース	MOUNT BASE	1
16-09	27-623	ベルトカバー (A)	BELT COVER (A)	1
16-10	42-503	本体取付ナット	NUT	9
16-11	42-513	防振ゴム	CUSHION RUBBER	10
16-12	69-613	ハンドホイール	HAND WHEEL	1
16-13	69-615	ハンドホイール取付台	JOINT	1
16-14	69-618	ハンドホイール取付台	JOINT	1
16-15	75-225	スプリングワッシャー	SPRING WASHER	11
16-16	75-451	ワッシャー	WASHER	11
16-17	75-453	ワッシャー	WASHER	5
16-18	75-583	ハネ座金	SPRING WASHER	1
16-19	75-584	ハネ座金	SPRING WASHER	1
16-20	87-213	六角穴付きボルト	BOLT	3
16-21	87-226	六角穴付きボルト	BOLT	2
16-22	87-491	ブラマイナベ小ねじ	SCREW	4
16-23	87-492	ブラマイナベ小ねじ	SCREW	1
16-24	87-674	連結ボルト	BOLT	5
16-25	87-675	連結ボルト	BOLT	4
16-26	88-166	ナット	NUT	1
16-27	88-176	ナット	NUT	13
16-28	88-183	袋ナット	NUT	4
16-29	87-490	ブラマイナベ小ねじ	SCREW	3

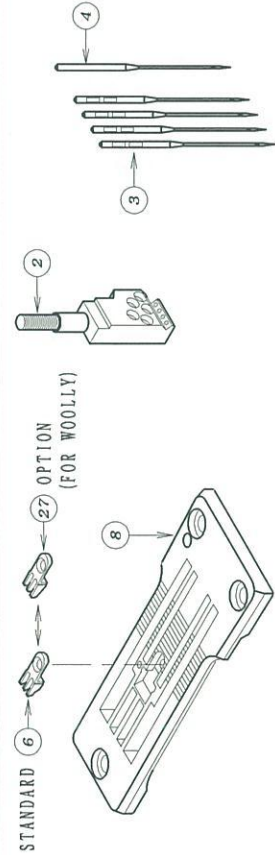
# 17. ゲージ関係 (1) GAUGE PARTS (1)

MODEL FSX6604S, S-DD

GAUGE 5.2mm (FSX6604S)



GAUGE 6mm (FSX6604S)

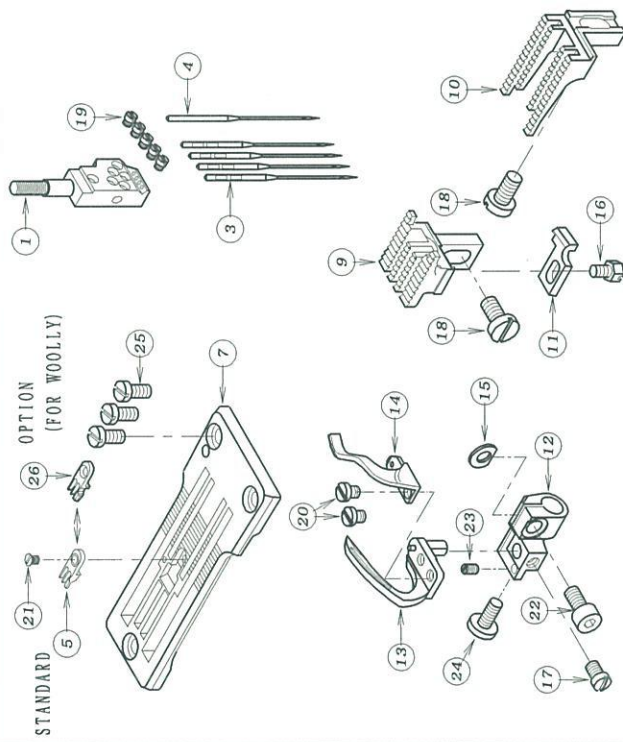


REF. NO.	PART NO.	品名	DESCRIPTION	QTY
17-01	12-621	針株 (5.2mm)	NEEDLE HOLDER	1
17-02	12-622	針株 (6mm)	NEEDLE HOLDER	1
17-03	13-6010-5	針 FLX118GCS#10	NEEDLE FLX118GCS#10	4
17-04	13-6020-6	針 FLG-8	NEEDLE FLG-8	1
17-05	14-601	針板ツマ (5.2mm)	NEEDLE PLATE TONGUE	1
17-06	14-602	針板ツマ (6mm)	NEEDLE PLATE TONGUE	1
17-07	14-621	針板	NEEDLE PLATE	1
17-08	14-622	針板 (6mm)	NEEDLE PLATE (6)	1
17-09	15-621	主送歯	MAIN FEED DOG	1
17-10	15-623	差動送歯	DIFFERENTIAL FEED DOG	1
17-11	18-621	針受け	NEEDLE GUARD	1
17-12	19-618	ループ台	LOOPER HOLDER	1
17-13	19-619	ループ	LOOPER	1
17-14	19-620	補助ループ	NEEDLE GUIDE	1
17-15	75-617	スベサ	WASHER	1
17-16	84-165	ネジ	SCREW	1
17-17	84-379	ネジ	SCREW	1
17-18	84-571	ネジ	SCREW	2
17-19	85-603	ネジ	SCREW	5
17-20	84-167	ネジ	SCREW	2
17-21	85-616	ネジ	SCREW	1
17-22	87-177	六角穴付きボルト	BOLT	1
17-23	87-609	ネジ	SCREW	1
17-24	87-610	ネジ	SCREW	1
17-25	87-612	ネジ	SCREW	3
17-26	14-604	針板ツマ (5.2mm) ウーリー用	NEEDLE PLATE TONGUE	1
17-27	14-605	針板ツマ (6mm) ウーリー用	NEEDLE PLATE TONGUE	1

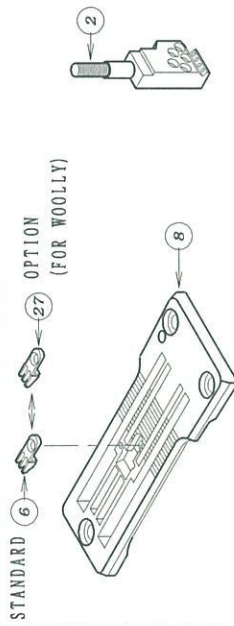
# 18. ゲージ関係 (2) GAUGE PARTS (2)

MODEL FSX6604LM, MH, LM-DD, MH-DD, MH-B (6mm)

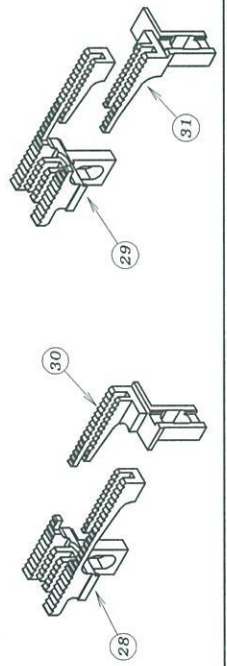
GAUGE 5.2mm Needle Holder, Needle plate



GAUGE 6mm



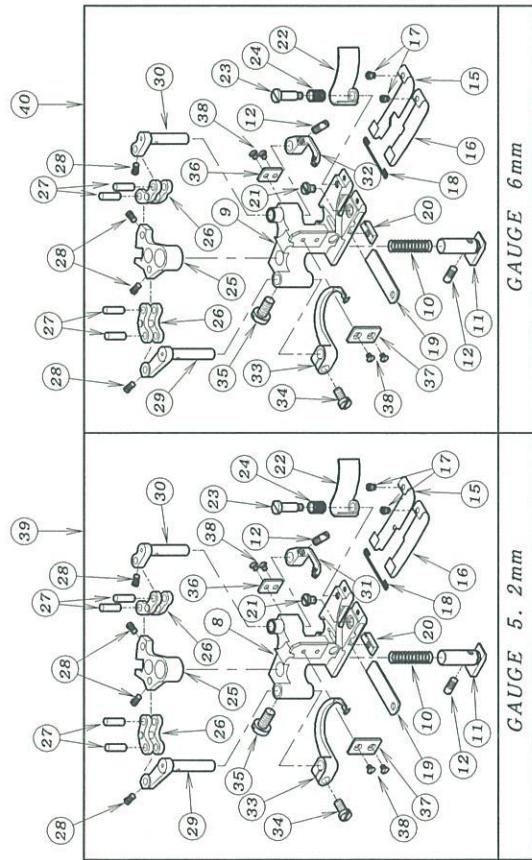
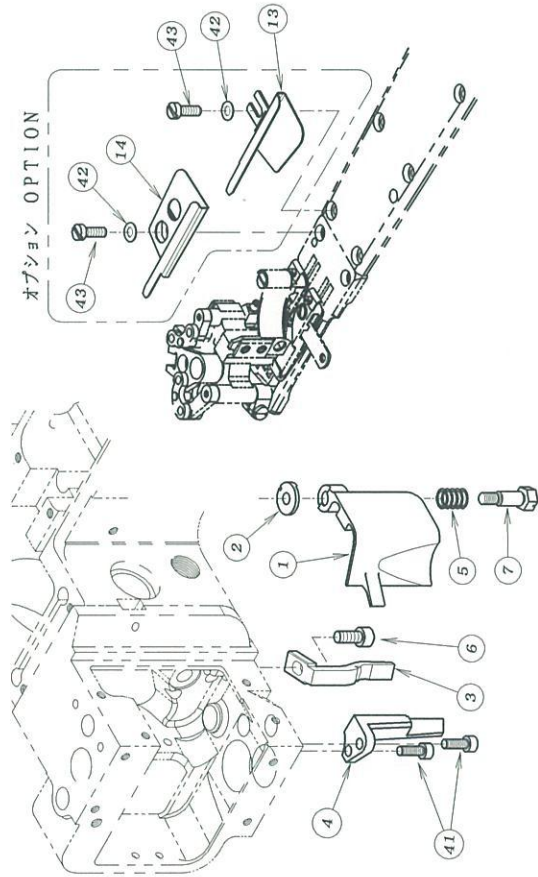
Left & Right differential feed dog (Option)



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
18-01	12-621	針株 (5.2mm)	NEEDLE HOLDER	1
18-02	12-622	針株 (6mm)	NEEDLE HOLDER	1
18-03	13-6010-5	針 FLX118GCS#10	NEEDLE FLX118GCS#10	4
18-04	13-6020-6	針 FLG-8	NEEDLE FLG-8	1
18-05	14-601	針板ツメ (5.2mm)	NEEDLE PLATE TONGUE	1
18-06	14-602	針板ツメ (6mm)	NEEDLE PLATE TONGUE	1
18-07	14-623	針板 (5.2mm)	NEEDLE PLATE (5.2)	1
18-08	14-624	針板 (6mm)	NEEDLE PLATE (6)	1
18-09	15-622	主送り歯	MAIN FEED DOG	1
18-10	15-623	差動送り歯	DIFFERENTIAL FEED DOG	1
18-11	18-621	針受け	NEEDLE GUARD	1
18-12	19-618	ルーパー台	LOOPER HOLDER	1
18-13	19-619	ルーパー	LOOPER	1
18-14	19-620	補助ルーパー	NEEDLE GUIDE	1
18-15	75-617	スヘーサ	WASHER	1
18-16	84-165	ネジ	SCREW	1
18-17	84-379	ネジ	SCREW	1
18-18	84-571	ネジ	SCREW	2
18-19	85-603	ネジ	SCREW	5
18-20	84-167	ネジ	SCREW	2
18-21	85-616	ネジ	SCREW	1
18-22	87-177	六角穴付きボルト	BOLT	1
18-23	87-609	ネジ	SCREW	1
18-24	87-610	ネジ	SCREW	1
18-25	87-612	ネジ	SCREW	3
18-26	14-604	針板ツメ (5.2mm) ケーリ用	NEEDLE PLATE TONGUE	1
18-27	14-605	針板ツメ (6mm) ケーリ用	NEEDLE PLATE TONGUE	1
18-28	15-635	主送り歯	MAIN FEED DOG	1
18-29	15-636	主送り歯	MAIN FEED DOG	1
18-30	15-637	差動送り歯	DIFFERENTIAL FEED DOG	1
18-31	15-638	差動送り歯	DIFFERENTIAL FEED DOG	1

# 19. 押え機構 (1) PRESSER FOOT UNIT (1)

MODEL NFS6604S, S-DD

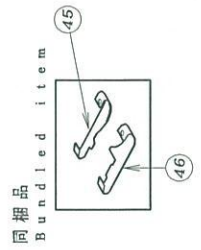
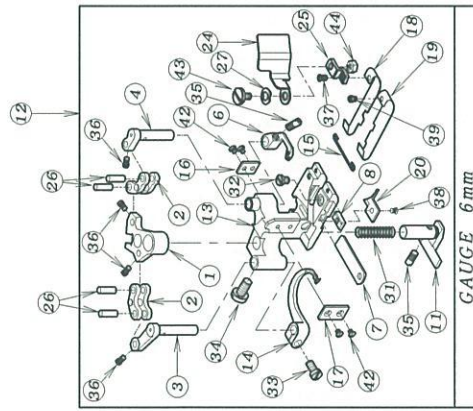
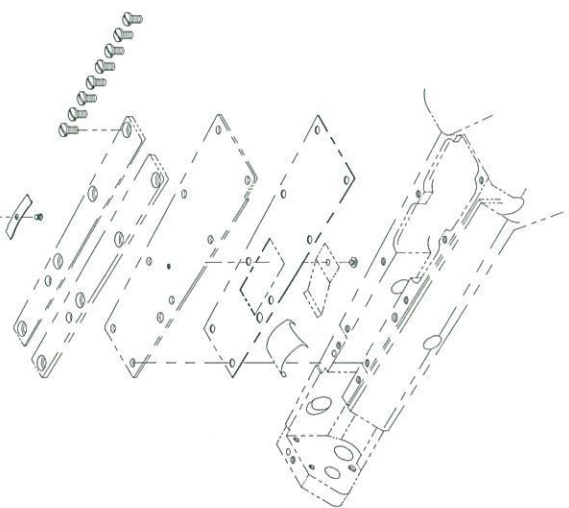
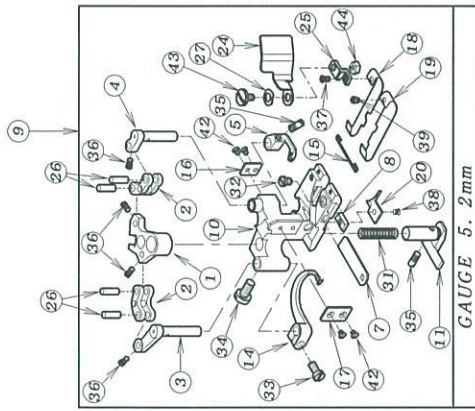
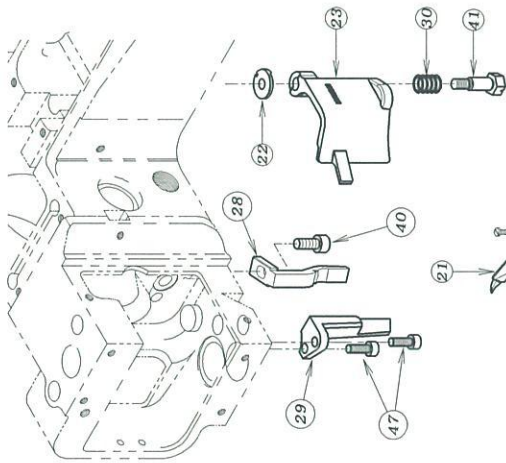


NFS6604S  
NFS6604S-DD

REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
19-01	27-607	切屑カバー	CHIP GUARD	1
19-02	27-613	切屑カバー取付座金	WASHER	1
19-03	77-619	押えガイド (右)	PRESSER FOOT GUIDE	1
19-04	77-626	押えガイド (左)	PRESSER FOOT GUIDE	1
19-05	79-619	スプリング	SPRING	1
19-06	87-252	六角穴付きボルト	BOLT	1
19-07	87-602	切屑カバー取付ネジ	SCREW	1
19-08	17-6210-A	押え本体 (5.2mm)	PRESSER FOOT	1
19-09	17-6220-A	押え本体 (6mm)	PRESSER FOOT	1
19-10	79-623	補助押え圧縮バネ	SPRING	1
19-11	17-6210-B	補助押え	AUXILIARY FOOT	1
19-12	84-646	補助押えセットビス	SCREW	2
19-13	XG-985	生地ガイド	GUIDE	1
19-14	XG-986	生地ガイド	GUIDE	1
19-15	26-652	押えシューズ (右)	PRESSER FOOT SHOE (RIGHT)	1
19-16	26-653	押えシューズ (左)	PRESSER FOOT SHOE (LEFT)	1
19-17	85-624	押えシューズ取付ネジ	SCREW	2
19-18	26-631	クランプ	HOLDER	1
19-19	07-621	下マス	LOWER KNIFE	1
19-20	07-635	下マス軸	LOWER KNIFE CLAMP	1
19-21	84-167	下マス巻き止ネジ	SCREW	1
19-22	27-616	切り屑カバー	COVER	1
19-23	84-647	切り屑カバーセットビス	SCREW	1
19-24	79-624	切り屑カバー用圧縮バネ	SPRING	1
19-25	04-605	上飾りドライブレバ-C	LEVER	1
19-26	04-606	上飾り作動リンク	LINK	2
19-27	71-807	上飾りドライブレバ-B	PIN	4
19-28	84-648	上飾りドライブレバ-A	SCREW	4
19-29	04-607	上飾りドライブレバ-A	SPREADER DRIVING LEVER (A)	1
19-30	04-608	上飾りドライブレバ-B	SPREADER DRIVING LEVER (B)	1
19-31	04-609	キャリアー 5.2mm	CARRIER	1
19-32	04-613	キャリアー 6mm	CARRIER	1
19-33	19-617	上飾りカバー	SPREADER	1
19-34	84-362	上飾りカバー取付ネジ	SCREW	1
19-35	84-571	押え取付ネジ	SCREW	1
19-36	26-632	ガイドプレート (右)	GUIDE PLATE (RIGHT)	1
19-37	26-633	ガイドプレート (左)	GUIDE PLATE (LEFT)	1
19-38	87-605	ガイドプレート取付ネジ	SCREW	4
19-39	17-6210-1	押えユニットS-52	PRESSER FOOT ASS'Y S-52	1
19-40	17-6220-1	押えユニットS-60	PRESSER FOOT ASS'Y S-60	1
19-41	87-129	六角穴付きボルト	BOLT	2
19-42	75-064	平座金 3.5	WASHER	2
19-43	87-011	ネジ	SCREW	2

# 20. 押え機構 (2) PRESSER FOOT UNIT (2)

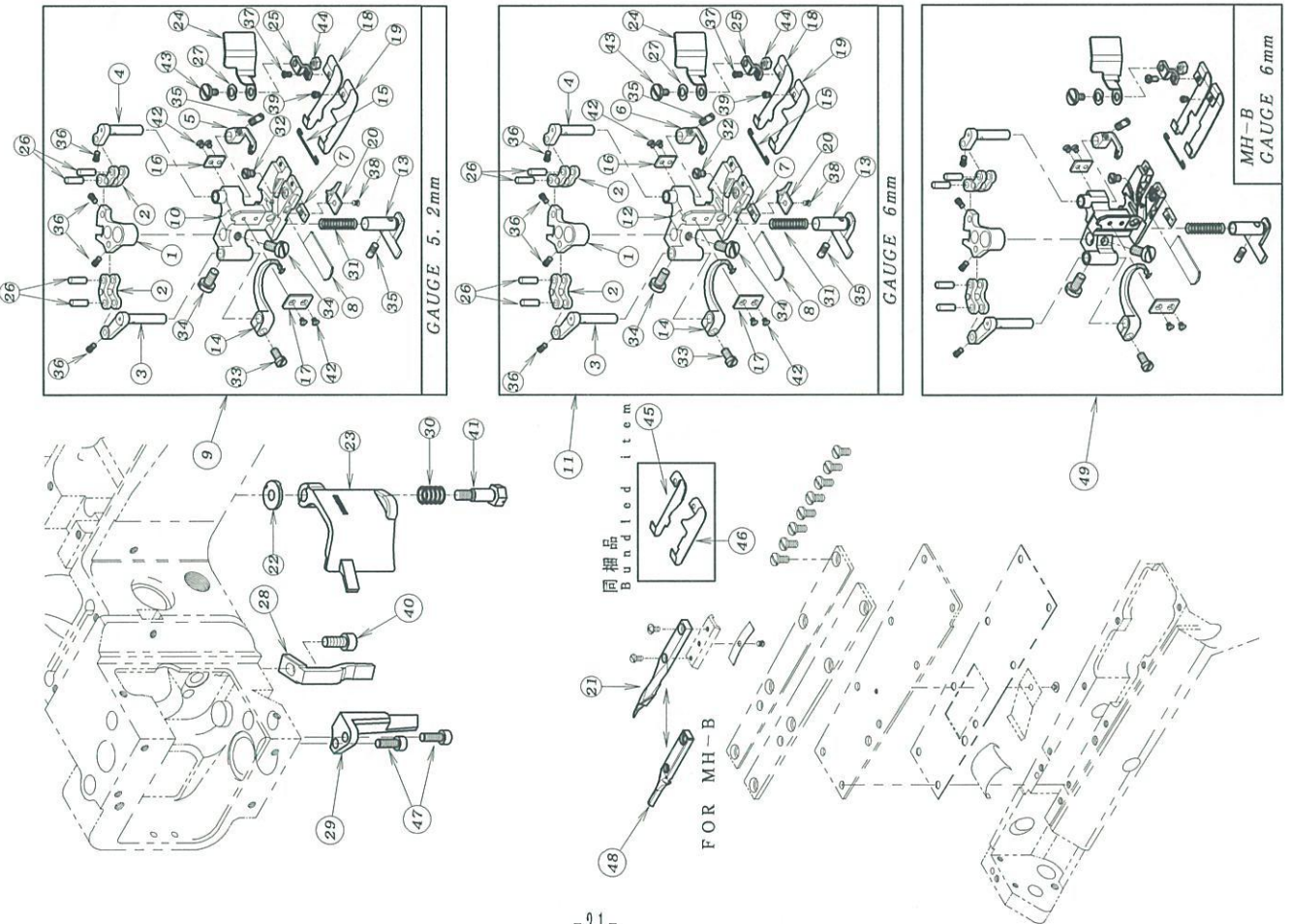
MODEL NFS6604LM, NFS6604LM-DD



REF. NO.	PART NO.	品名	DESCRIPTION	QTY
20-01	04-605	上飾りドライブレバ-C	LEVER	1
20-02	04-606	上飾り差動リンク	LINK	2
20-03	04-607	上飾りドライブレバ-A	SPREADER DRIVING LEVER	1
20-04	04-608	上飾りドライブレバ-B	SPREADER DRIVING LEVER	1
20-05	04-609	キャリアー	CARRIER	1
20-06	04-613	キャリアー	CARRIER	1
20-07	07-621	下メス	LOWER KNIFE	1
20-08	07-633	下メス穂き	LOWER KNIFE CLAMP	1
20-09	17-6230-1	押えユニットLM-52	PRESSER FOOT ASS'Y LM-52	1
20-10	17-6230-A	押え本体	FOOT	1
20-11	17-6230-B	補助押え	YIELDING SECTION	1
20-12	17-6240-1	押えユニットLM-60	PRESSER FOOT ASS'Y LM-60	1
20-13	17-6240-A	押え本体	FOOT	1
20-14	19-617	上飾りルーパー	SPREADER	1
20-15	26-631	クランプ	HOLDER	1
20-16	26-632	カ・イト°フ°レート(右)	GUIDE PLATE	1
20-17	26-633	カ・イト°フ°レート(左)	GUIDE PLATE	1
20-18	26-640	押えシューズ°(右)	PRESSER FOOT SHOE (RIGHT)	1
20-19	26-641	押えシューズ°(左)	PRESSER FOOT SHOE	1
20-20	26-658	布カ°イト°	CLOTH GUIDE	1
20-21	26-650	布ガイド	LAP FORMER	1
20-22	27-613	切屑カバ°取付座金	WASHER	1
20-23	27-625	切屑カバ°	CHIP GUARD	1
20-24	27-631	切屑カバ°	CHIP GUARD	1
20-25	27-632	切屑カバ°取付台	COVER BRACKET	1
20-26	71-807	上飾りドライブレバ°ピン	PIN	4
20-27	75-618	波座金	WASHER	1
20-28	77-619	押えカ°イト°(右)	PRESSER FOOT GUIDE	1
20-29	77-626	押えカ°イト°(左)	PRESSER FOOT GUIDE	1
20-30	79-619	スプ°リンク°	SPRING	1
20-31	79-623	補助押え圧縮パネ	SPRING	1
20-32	84-167	ネジ°	SCREW	1
20-33	84-362	ネジ°	SCREW	1
20-34	84-571	ネジ°	SCREW	1
20-35	84-646	ネジ°	SCREW	2
20-36	84-648	ネジ°	SCREW	4
20-37	85-102	ネジ°	SCREW	1
20-38	85-616	ネジ°	SCREW	1
20-39	85-624	ネジ°	SCREW	1
20-40	87-252	六角穴付きボルト	BOLT	1
20-41	87-602	切屑カバ°取付ネジ°	SCREW	1
20-42	87-605	ネジ°	SCREW	4
20-43	87-613	切屑カバ°取付ネジ°	SCREW	1
20-44	88-137	ナット	NUT	1
20-45	26-656	押えシューズ°(右)	PRESSER FOOT SHOE (RIGHT)	1
20-46	26-657	押えシューズ°(左)	PRESSER FOOT SHOE (LEFT)	1
20-47	87-129	六角穴付きボルト	BOLT	2

## 21. 押え機構 (3) PRESSER FOOT UNIT (3)

MODEL NFS6604MH, NFS6604MH-DD, MH-B (6mm)

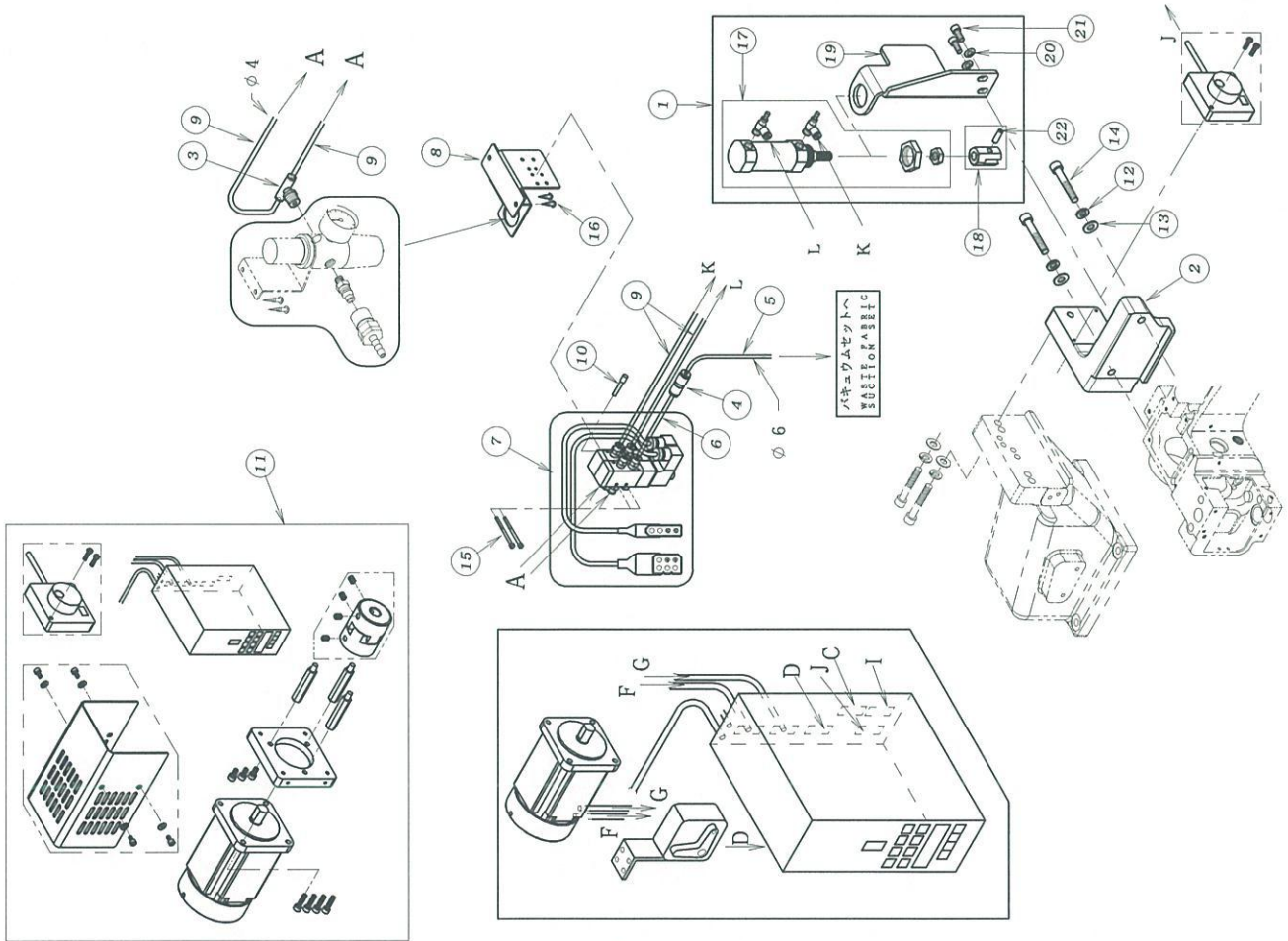


REF. NO.	PART NO.	品名	DESCRIPTION	QTY
21-01	04-605	上飾りドライブレバ-C	LEVER	1
21-02	04-606	上飾り差動リンク	LINK	2
21-03	04-607	上飾りドライブレバ-A	SPREADER DRIVING LEVER	1
21-04	04-608	上飾りドライブレバ-B	SPREADER DRIVING LEVER	1
21-05	04-609	キャリアー	CARRIER	1
21-06	04-613	キャリアー	CARRIER	1
21-07	07-633	下メス軸	LOWER KNIFE CLAMP	1
21-08	07-634	下メス	LOWER KNIFE	1
21-09	17-6190-1	押えユニットMH-52	PRESSER FOOT ASS'Y MH-52	1
21-10	17-6190-A	押え本体	FOOT	1
21-11	17-6200-1	押えユニットMH-60	PRESSER FOOT ASS'Y MH-60	1
21-12	17-6200-A	押え本体	FOOT	1
21-13	17-6230-B	補助押え	YIELDING SECTION	1
21-14	19-617	上飾りホルバ	SPREADER	1
21-15	26-631	クランプ	HOLDER	1
21-16	26-632	カ'イト' プレートの(右)	GUIDE PLATE	1
21-17	26-633	カ'イト' プレートの(左)	GUIDE PLATE	1
21-18	26-643	押えシューズ' (右)	PRESSER FOOT SHOE (RIGHT)	1
21-19	26-644	押えシューズ' (左)	PRESSER FOOT SHOE (LEFT)	1
21-20	26-645	布ガイド	CLOTH GUIDE	1
21-21	26-651	布ガイド	LAP FORMER	1
21-22	27-613	切屑カバ-取付座金	WASHER	1
21-23	27-625	切屑カバ-	CHIP GUARD	1
21-24	27-631	切屑カバ-	CHIP GUARD	1
21-25	27-632	切屑カバ-取付台	COVER BRACKET	1
21-26	71-807	上飾りドライブレバ-ピン	PIN	4
21-27	75-618	波磨金	WASHER	1
21-28	77-619	押えカ'イト' (右)	PRESSER FOOT GUIDE	1
21-29	77-626	押えカ'イト' (左)	PRESSER FOOT GUIDE	1
21-30	79-619	スプリング	SPRING	1
21-31	79-623	補助押え圧縮バネ	SPRING	1
21-32	84-167	ネジ	SCREW	1
21-33	84-362	ネジ	SCREW	1
21-34	84-571	ネジ	SCREW	2
21-35	84-646	ネジ	SCREW	2
21-36	84-648	ネジ	SCREW	4
21-37	85-102	ネジ	SCREW	1
21-38	85-616	ネジ	SCREW	1
21-39	85-624	ネジ	SCREW	1
21-40	87-252	六角穴付きボルト	BOLT	1
21-41	87-602	切屑カバ'-取付ネジ	SCREW	1
21-42	87-605	ネジ	SCREW	1
21-43	87-613	切屑カバ'-取付ネジ	SCREW	4
21-44	88-137	ナット	NUT	1
21-45	26-656	押えシューズ (右)	PRESSER FOOT SHOE (RIGHT)	1
21-46	26-657	押えシューズ (左)	PRESSER FOOT SHOE (LEFT)	1
21-47	87-129	六角穴付きボルト	BOLT	2
21-48	26-659	布ガイド	LAP FORMER	1
21-49	17-6110-1	押えユニット (60)	PRESSER FOOT ASS'Y (60)	2



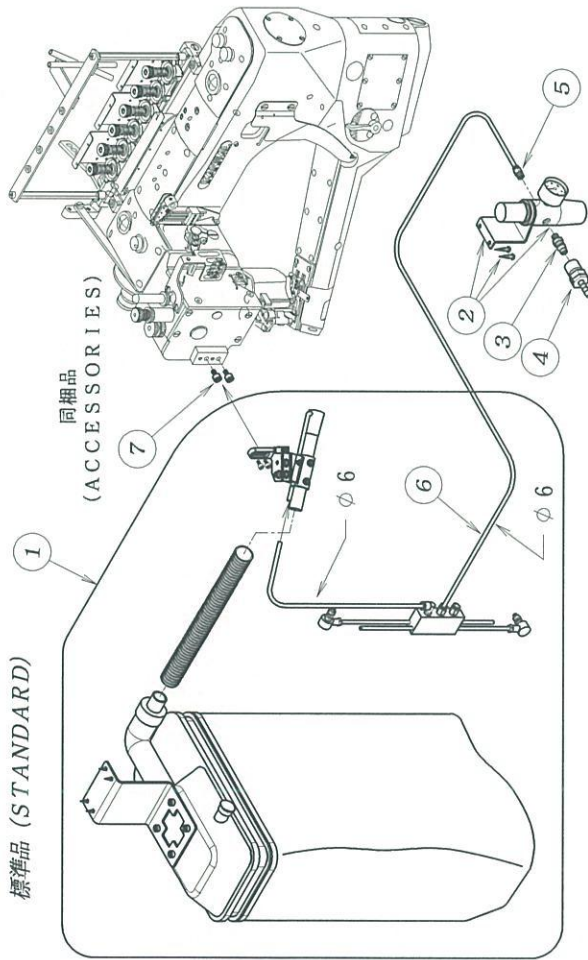
22. ダイレクトモーター専用部品 DIRECT MOTOR EXCLUSIVE PARTS

REF. NO.	PART NO.	品名	DESCRIPTION	QTY
22-01	00-6410	押え揚げシリンダ'-フ'ラケットセット	AIR CYLINDER BRACKET ASS'Y	1
22-02	27-635	ブラケット	BRACKET	1
22-03	05-215	両口チーズ'ユニオン	JOINT	1
22-04	05-224	異径ストレート	JOINT	1
22-05	05-486	チューブ'φ6X1000mm	TUBE	1
22-06	05-490	チューブ'φ4X50mm	TUBE	1
22-07	05-643	電磁弁2連セット	SOLENOID VALVE ASS'Y	1
22-08	05-644	電磁弁ブラケット	BRACKET	1
22-09	05-917	チューブ'φ4X1500mm	TUBE	4
22-10	06-597	プラグ	PLUG	1
22-11	50-6010	ダイレクトモーター-セット	DIRECT MOTOR ASS'Y	1
22-12	75-225	スプ'リング'ワッシャ	WASHER	2
22-13	75-451	ワッシャ	WASHER	2
22-14	87-226	六角穴付きボルト	BOLT	2
22-15	87-298	ネジ'	SCREW	2
22-16	87-902	木ねじ	SCREW	2
22-17	00-6082	押え揚'ラー-揚げシリンダ'-セット	AIR CYLINDER ASS'Y	1
22-18	05-642	押え揚'レバ'-作動金具	CHIP	1
22-19	05-641	押え揚'シリンダ'-フ'ラケット	BRACKET	1
22-20	75-452	ワッシャ	WASHER	2
22-21	87-171	六角穴付きボルト	BOLT	2
22-22	93-627	スプリングピン	SPRING PIN	1

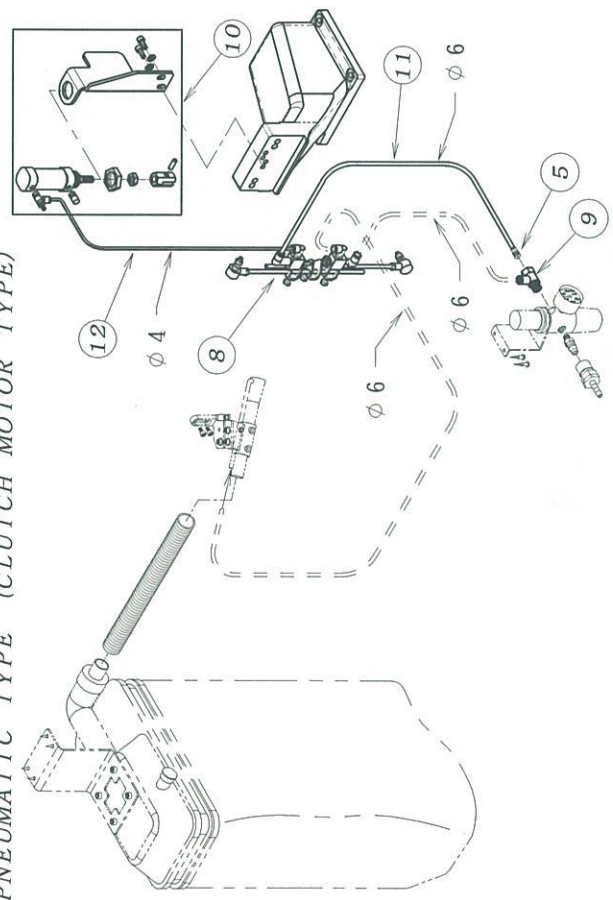


23. 吸込み管セット WASTE FABRIC SUCTION MECHANISM  
標準品及びオプションFL-7 STANDARD AND OPTION FL-7

REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
23-0100-6605		パキュームセット	VACUUM SET	1
23-0205-212		フィルタレギュレータ	REGULATOR	1
23-0306-516		カプラメス	CONNECTOR	1
23-0406-517		カプラオス	CONNECTOR	1
23-0505-218		レギュレータ-用継手	JOINT	1
23-0605-486		エア-チューブφ6X1000mm	AIR TUBE φ6X1000mm	1
23-0787-024		六角穴付きボルト	BOLT	2
23-0800-8040		吸込み押え揚げ用バルブセット	VALVE ASS'Y	1
23-0905-214		ユニバーサルメスエルボ	JOINT	1
23-1000-6420		押え揚げシリンダー-セット	AIR CYLINDER ASS'Y	1
23-1105-486		エア-チューブφ6X1000mm	AIR TUBE φ6X1000mm	1
23-1205-979		エア-チューブφ4X700mm	AIR TUBE φ4X700mm	1



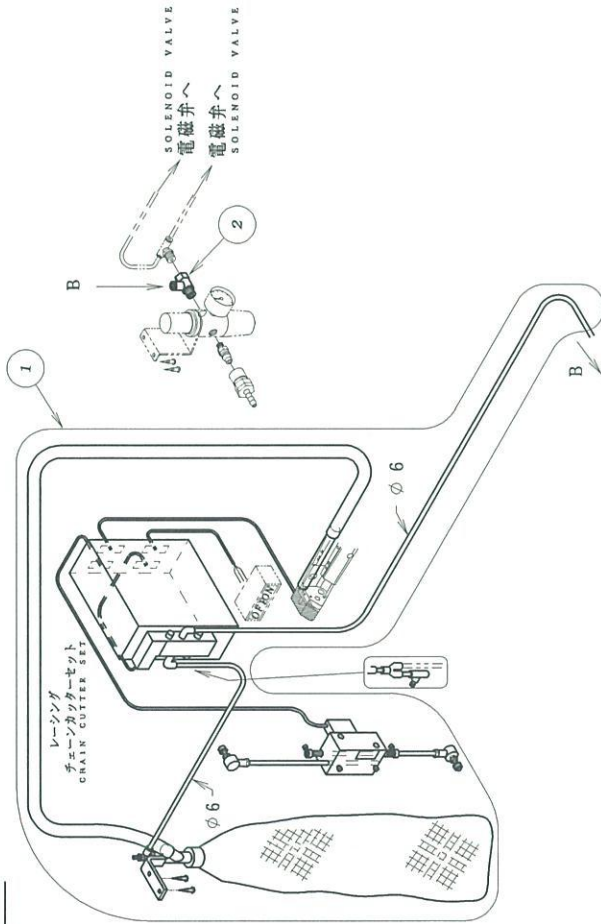
オプション FL-7 エア-式押え揚げ装置 (クラッチモーター仕様)  
OPTION FL-7 PRESSER FOOT MECHANISM  
PNEUMATIC TYPE (CLUTCH MOTOR TYPE)



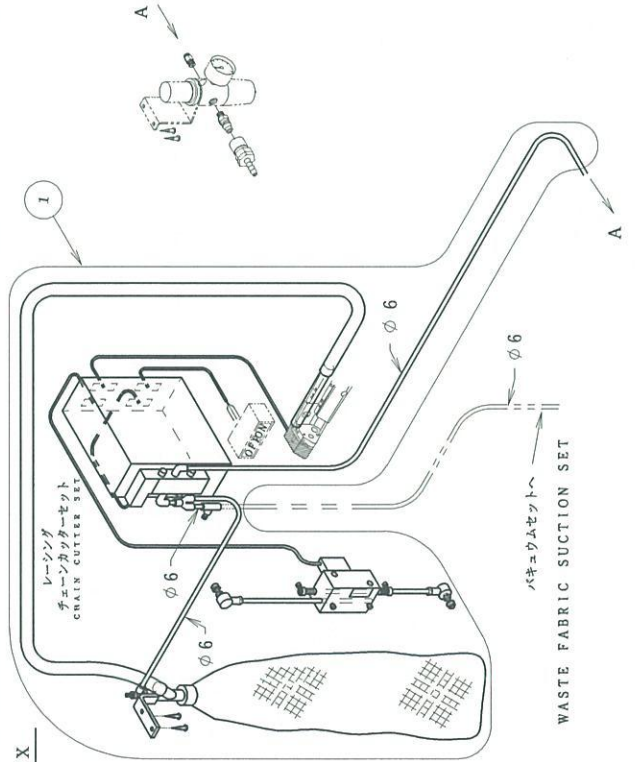
24. 電気式チェーンカッター

ELECTRIC CHAIN CUTTER CS-2

FSX-DD

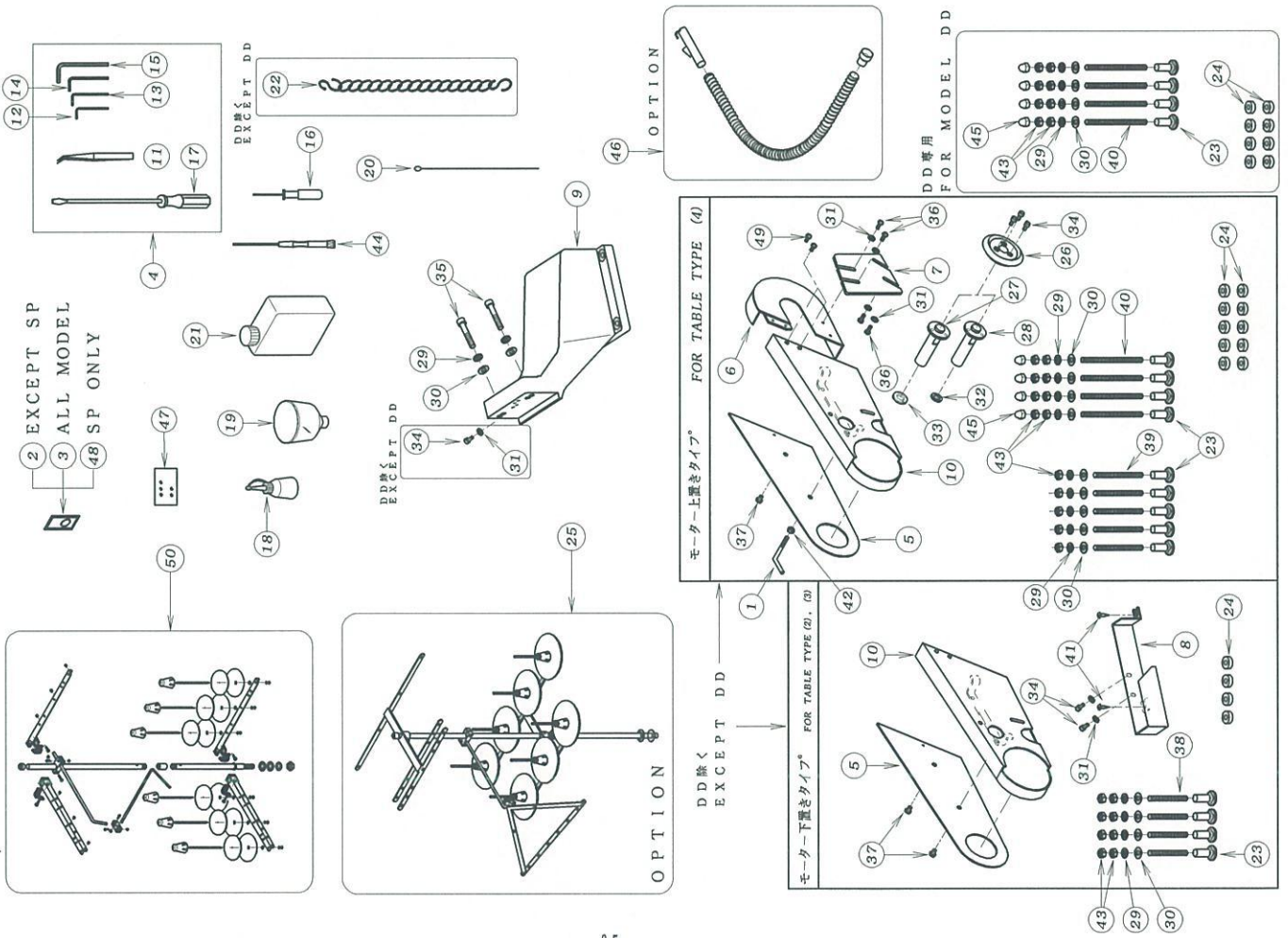


標準FSX



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
24-0100-6602		電動式チェーンカッターセット	CHAIN CUTTER SET	1
24-0205-214		ユニバーサルメスエルボ	JOINT	1

25. 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
25-01	06-634	検出器用止金具	BAR	1
25-02	13-6010-5	針 FLX118GCS #10	NEEDLE	1
25-03	13-6020-6	針 FLG-8	NEEDLE	1
25-04	20-0010	付属部品ケース	ACCESSORIES	1
25-05	21-988	ベルトカバー (B)	BELT COVER (B)	1
25-06	21-989	ベルトカバー (C)	BELT COVER (C)	1
25-07	21-990	ベルトカバー - 取付プレート	PLATE	1
25-08	21-991	ベルト補助カバー	COVER	1
25-09	22-614	マウントベース	MOUNT BASE	1
25-10	27-623	ベルトカバー (A)	BELT COVER (A)	1
25-11	28-011	ピンセット	TWEZERS	1
25-12	28-311	六角レンチ 2mm	ALLEN KEY 2mm	1
25-13	28-312	六角レンチ 2.5mm	ALLEN KEY 2.5mm	1
25-14	28-313	六角レンチ 3mm	ALLEN KEY 3mm	1
25-15	28-314	六角レンチ 5mm	ALLEN KEY 5mm	1
25-16	28-317	クリップ付六角レンチ 1.5mm	ALLEN KEY 1.5mm	1
25-17	28-452	ドライバー (大)	DRIVER (L)	1
25-18	28-614	油差し	OILER	1
25-19	28-615	シヨウゴ	OIL FUNNEL	1
25-20	28-616	ガイドスレット	GUIDE THREAD	1
25-21	28-617	シン潤滑油	OIL	1
25-22	28-920	チェーン	CHAIN	1
25-23	42-503	本体取付ナット	NUT	4~9
25-24	42-513	防振ゴム	CUSHION RUBBER	4~10
25-25	42-707	7本糸立て	THREAD STAND ASSEMBLY	1
25-26	69-613	ハンドホイール	HAND WHEEL	1
25-27	69-614	ハンドホイール取付台	JOINT	1
25-28	69-615	ハンドホイール取付台	JOINT	1
25-29	75-225	スフリンクワッシャ	SPRING WASHER	6~11
25-30	75-451	ワッシャ	WASHER	6~11
25-31	75-453	ワッシャ	WASHER	3~5
25-32	75-583	ハネ隠金	SPRING WASHER	1
25-33	75-584	ハネ隠金	SPRING WASHER	1
25-34	87-213	六角穴付きボルト	BOLT	1~4
25-35	87-226	六角穴付きボルト	BOLT	2
25-36	87-491	プラマイナベ小ねじ	SCREW	4
25-37	87-492	プラマイナベ小ねじ	SCREW	1~2
25-38	87-673	連結ボルト	BOLT	4
25-39	87-674	連結ボルト	BOLT	5
25-40	87-675	連結ボルト	BOLT	4
25-41	87-901	木ネジ	SCREW	2
25-42	88-166	ナット	NUT	1
25-43	88-176	ナット	NUT	8~13
25-44	28-318	解盛マイナストライバ - 2.5mm	SCREWDRIVER	1
25-45	88-183	袋ナット	NUT	4
25-46	100-6604	ストレートメガネアセット	NUT	1
25-47	85-603	ネジ	SCREW	5
25-48	13-6010-4	針 FLX118GCS #10.S	NEEDLE	1
25-49	87-490	プラマイナベ小ねじ	SCREW	2
25-50	42-010	6本糸立て	THREAD STAND ASSEMBLY	1










## 26. ゲージ部品一覽表 (1) GAUGE PARTS TABLE (1)

部品 PARTS	ゲージ GAUGE (mm)	針 NEEDLE HOLDER	押えユニット PRESSER FOOT ASSEMBLY	押え PRESSER FOOT	押えシューズ* (左) PRESSER FOOT SHOE (LEFT)	押えシューズ* (右) PRESSER FOOT SHOE (RIGHT)	針板 NEEDLE PLATE	針板爪 NEEDLE PLATE TONGUE	主送歯 MAIN FEED DOG	差動送歯 DIFFERENTIAL FEED DOG	針受 NEEDLE GUARD	補助ルーバー NEEDLE GUIDE
NFS6604S	5.2	12-6210-1	17-6210-1	17-6210-A	26-653	26-652	14-621	14-601 *14-604	15-621			
	6	12-6220-1	17-6220-1	17-6220-A			14-622	14-602 *14-605				
NFS6604LM	5.2	12-6210-1	17-6230-1	17-6230-A	26-641	26-640	14-623	14-601 *14-604				
	6	12-6220-1	17-6240-1	17-6240-A	(26-657)	(26-656)	14-624	14-602 *14-605		15-623	18-621	19-620
NFS6604MH	5.2	12-6210-1	17-6190-1	17-6190-A	26-644	26-643	14-623	14-601 *14-604	15-622			
	6	12-6220-1	17-6200-1	17-6200-A	(26-657)	(26-656)	14-624	14-602 *14-605				
NFS6604MH-B	6	12-6220-1	17-6110-1	17-6110-A	26-661	26-660	14-624	14-602				

( ) は同梱品  
( ) FOR ACCESSORIES

\*印はウーリー用  
\*FOR WOOLLY

27. ゲージ部品一覧表 (2) GAUGE PARTS TABLE (2)

部品 PARTS	ゲージ GAUGE (mm)	ルーパ LOOPER	上飾りルーパ SPREADER	キャリア CARRIER	上メス UPPER KNIFE	下メス LOWER KNIFE	下メス抱き LOWER KNIFE CLAMP	布ガイド CLOTH GUIDE	布ガイド LAP FORMER
モデル MODEL									
NFS6604S	5.2	19-619	19-617	04-609	07-626	07-621	07-635		
	6			04-613					
NFS6604LM	5.2	19-619	19-617	04-609	07-626	07-621	07-633	26-642	26-650
	6			04-613					
NFS6604MH	5.2	19-619	19-617	04-609	07-631	07-634	07-633	26-645	26-651
	6			04-613					
NFS6604MH-B	6	19-619	19-617	04-613	07-631	07-634	07-633		26-659



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M E M O

REF. PART NO. NO. 品番	REF. PART NO. NO. 品番
07-2987-651	07-2987-679
02-2998-658	01-3187-680
02-3098-662	02-3787-812
02-3198-663	14-1787-901
02-3298-665	15-1587-901
02-3398-670	25-4187-901
07-3198-671	22-1687-902
10-3098-677	01-3288-137
03-2298-725	20-4488-137
02-3498-734	21-4488-137
01-3798-737	01-3388-146
07-3398-740	10-2588-157
07-3498-741	10-2688-166
07-3598-744	16-2688-166
07-3698-745	25-4288-166
07-3798-746	13-1188-176
07-3898-748	14-1888-176
07-3998-749	15-1688-176
05-2798-803	16-2788-176
05-2898-804	25-4388-176
08-3098-819	13-1288-183
09-4498-864	14-1988-183
09-4598-875	15-1788-183
08-3198-876	16-2888-183
09-4698-876	25-4588-183
07-4098-880	10-2788-600
08-3298-881	10-2888-601
13-13SX-167	10-2988-602
19-13XC-985	06-4091-306
19-14XC-986	12-4391-603

REF. PART NO. NO. 品番	REF. PART NO. NO. 品番
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01-3187-680	01-3187-680
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25-4187-901	25-4187-901
22-1687-902	22-1687-902
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01-3388-146	01-3388-146
10-2588-157	10-2588-157
10-2688-166	10-2688-166
16-2688-166	16-2688-166
25-4288-166	25-4288-166
13-1188-176	13-1188-176
14-1888-176	14-1888-176
15-1688-176	15-1688-176
16-2788-176	16-2788-176
25-4388-176	25-4388-176
13-1288-183	13-1288-183
14-1988-183	14-1988-183
15-1788-183	15-1788-183
16-2888-183	16-2888-183
25-4588-183	25-4588-183
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10-2988-602	10-2988-602
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06-4491-994	06-4491-994
06-4193-202	06-4193-202
09-3693-213	09-3693-213
09-3793-601	09-3793-601
08-2793-625	08-2793-625
22-2293-627	22-2293-627
03-3493-724	03-3493-724
12-2894-213	12-2894-213
05-2594-512	05-2594-512
05-2698-511	05-2698-511
11-4198-536	11-4198-536
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09-3487-299	09-3487-299
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01-2887-678	01-2887-678



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# ***NFS** Series Instruction Manual*

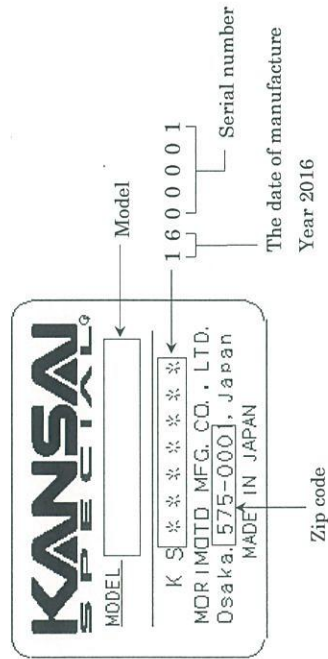
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## INTRODUCTION

Thank you for your purchasing Kansai Special's NFS6604G Series.  
Please 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, please make sure the pulley cover, safety cover, etc. are secured.
3. Before adjusting, cleaning, threading the machine or replacing the needle, please 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 performing preventive maintenance.
6. The contents described in this instruction manual are subject to change without notice.

### Indication of serial number



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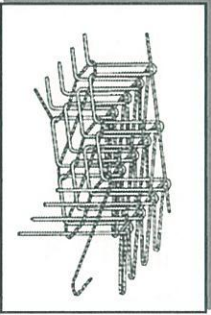
## [1] SPECIFICATION

### 1-1 Description

High speed feed-off-the-arm with 4-needles flat seamer

### 1-2 Stitch type

ISO standard 607



## [2] NEEDLES & THREADING MECHANISM

### 2-1 Needles

- Needles...FL×118GCS (Organ)
- Retainer...FLG-8 (Organ)

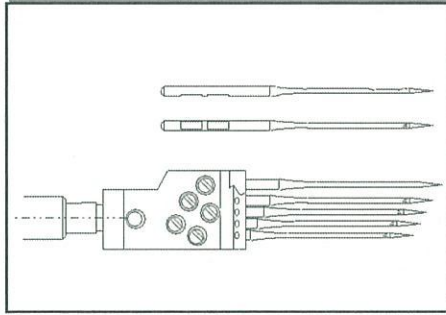
Please select the proper needle size according to fabric thickness and material.

< Needles and needle size >

Japan	# 8	# 9	#10	#11	#12	#14
Germany	Nm60	Nm65	Nm70	Nm75	Nm80	Nm90

### 2-2 Replacing the needles

When replace the needle, the groove on needle shank is turned to front then put it into needle bar head interior. (See the illustration)



< Note >

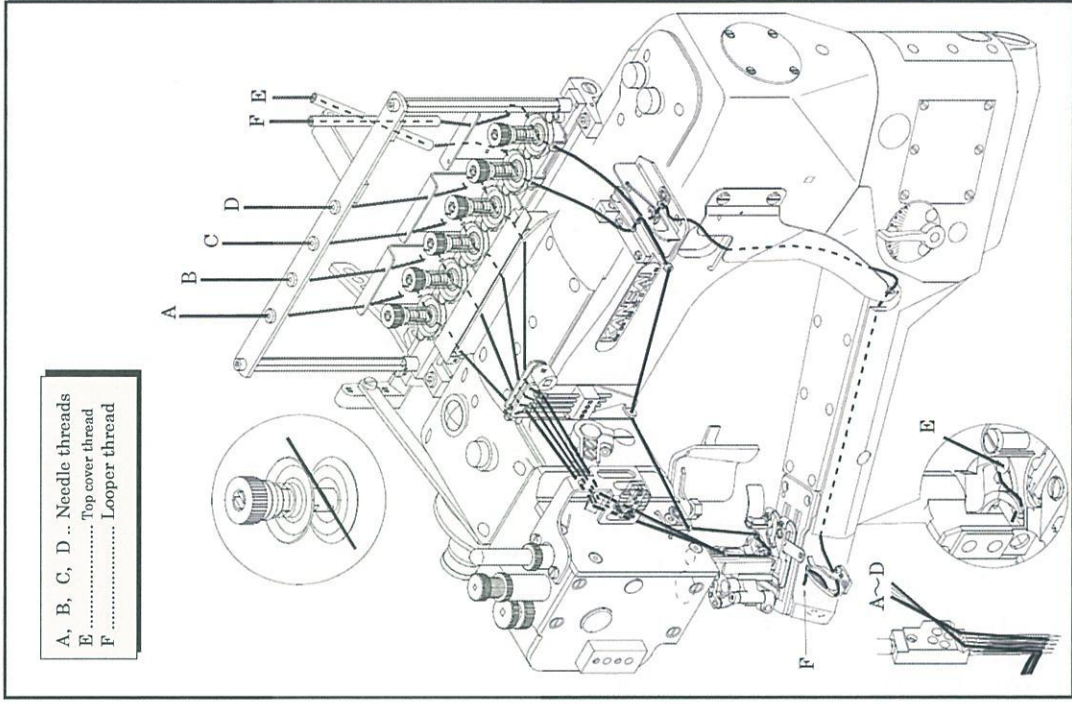
When replacing the needle, be sure to turn off the machine. A clutch motor continues running for a while after the machine is turned off. Therefore keep on pressing the pedal until the machine stops.

## 2-3 Threading

Please refer the illustration as below.

< Note >

Threading must be properly way for a void machine broken.



A, B, C, D ... Needle threads  
E ..... Top cover thread  
F ..... Looper thread

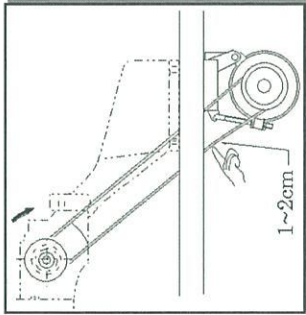
### [3] MACHINE SPEED

#### 3-1 Machine speed & running hand wheel direction

This machine's max speed is 4200spm. (Normally 3800spm for operation)

< Note >

*For running new machine, first 200hours (1 month) must run 3500spm for long durability in the future.  
For direction of hand-wheel is clockwise.*



#### 3-2 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 in the table below.) Position the motor by pressing the finger onto the mid-point of the belt so that 1~2cm deflection can be achieved (see the illustration).

Motor pulley outer diameter	Machine speed	
	50Hz	60Hz
75 mm		3500SPM
85 mm		4000SPM
90 mm	3500SPM	
95 mm		4500SPM
100 mm	4000SPM	
110 mm	4500SPM	

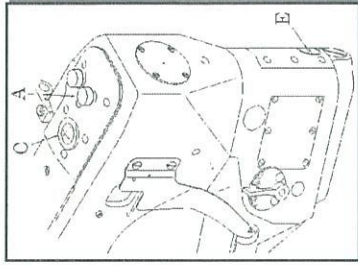
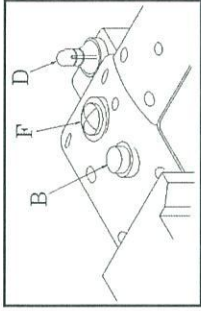
### [4] LUBRICATION & OIL

#### 4-1 Oil

Use Kansai Special's genuine oil. (Part No. 28-617)

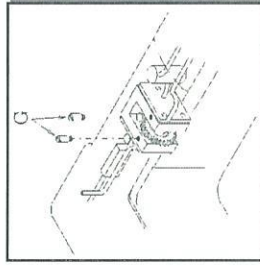
#### 4-2 How to fill oil

Remove screw A and B from the oil hole. Fill the machine with oil until the oil level reaches the top line on oil gauge E and D. Maintain the oil level between the lines of the gauges. After filling the machine with oil, run the machine to check the oil is splashing to oil flow sight window C and F.



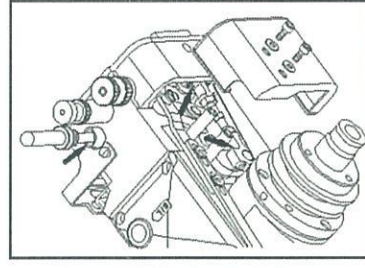
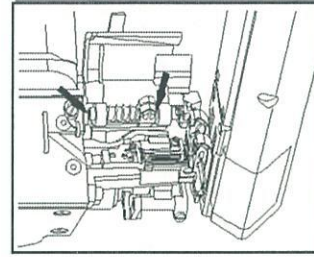
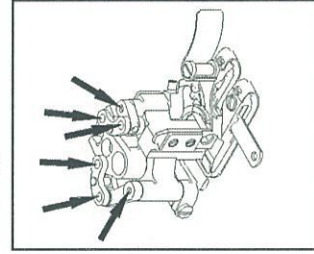
#### 4-3 Check oil

When starting a new machine after filling the reservoirs, or when beginning to operate a machine that has been idle for some time, it may be necessary to prime the pump. To do this, remove the two plug screw G. Apply oil from an oil can to these holes and operate machine until bubbling can be observed at the windows.



#### 4-4 Lubrication

Put a small amount of oil onto the positions shown in the illustration.

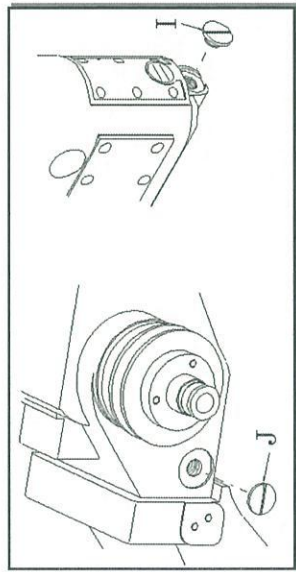


**4-5 Changing oil**

To extend machine life, replace the entire oil after the first 200 hours of operation. Thereafter replace the oil every 6 months. To drain the oil, remove screw I and J.

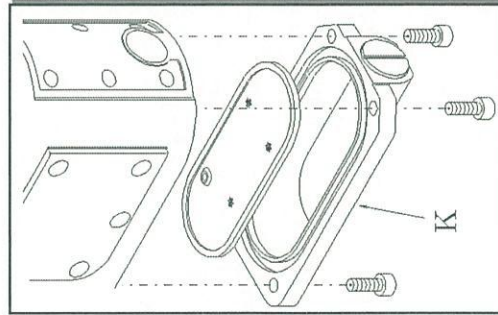
< Note >

Contaminated oil may shorten machine life. Replace the oil as early as possible.



**4-6 Cleaning the filter**

Before replacing the oil, remove reservoir K and clean the cylinder, inside of the reservoir and filter element.

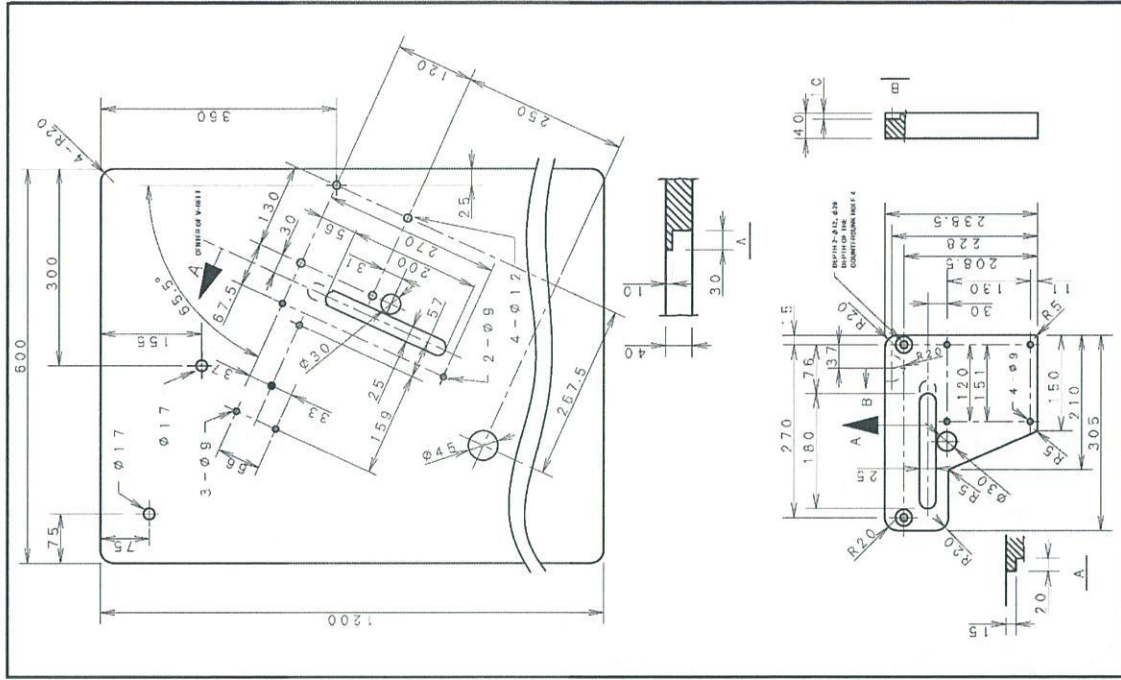


**[5] SEWING MACHINE INSTALLATION**

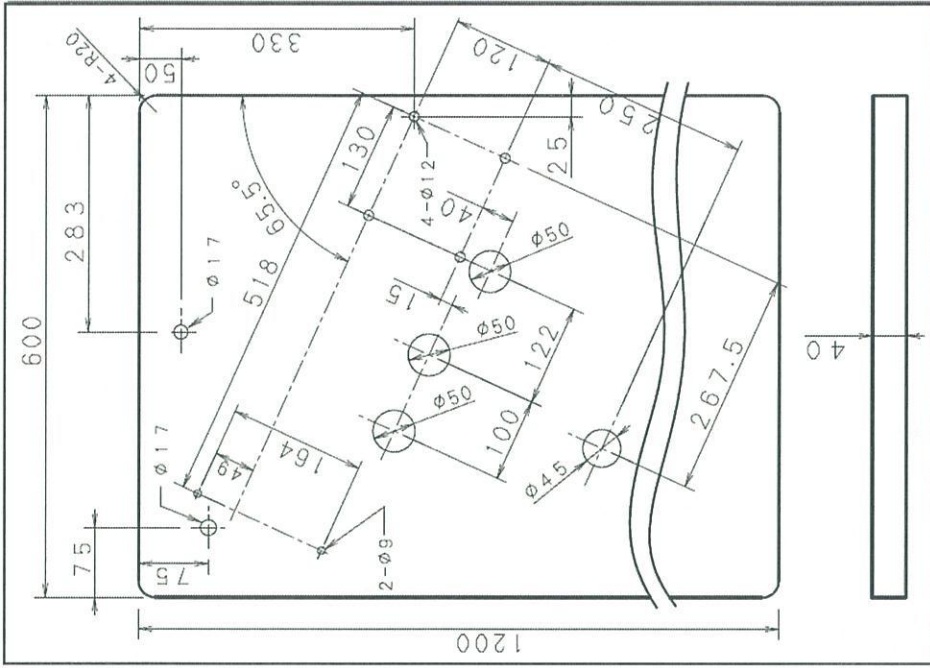
**5-1 Process of machine table**

See Parts reference 25~30page.

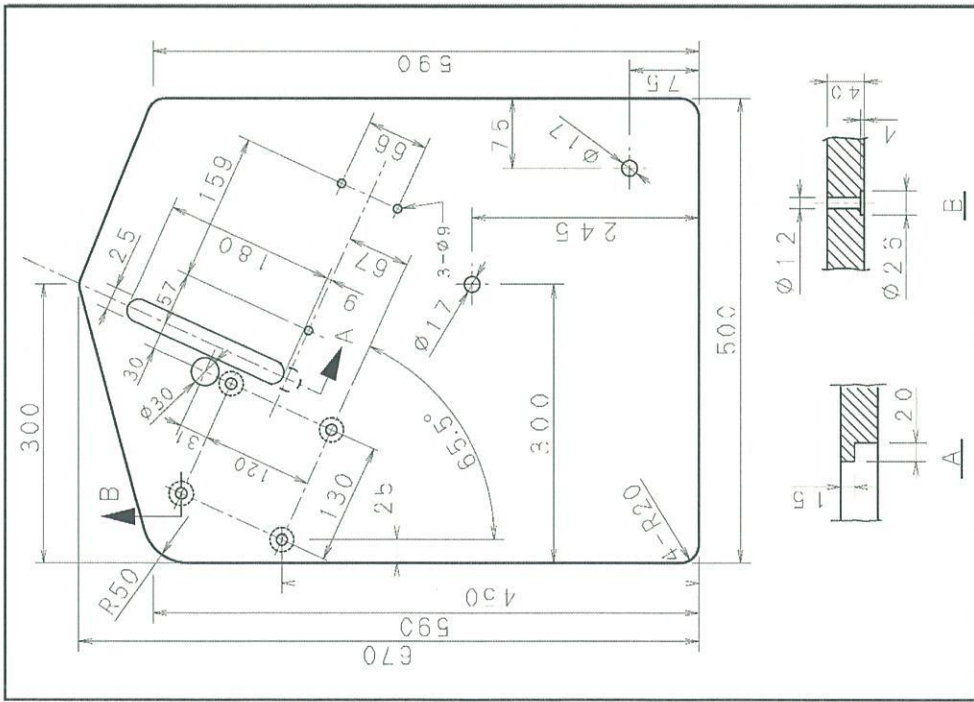
■Type A (clutch motor)



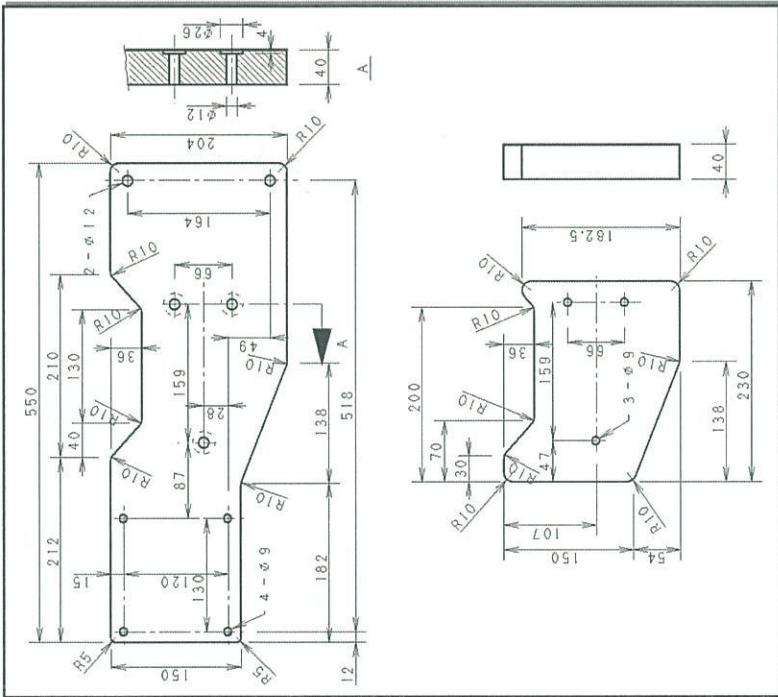
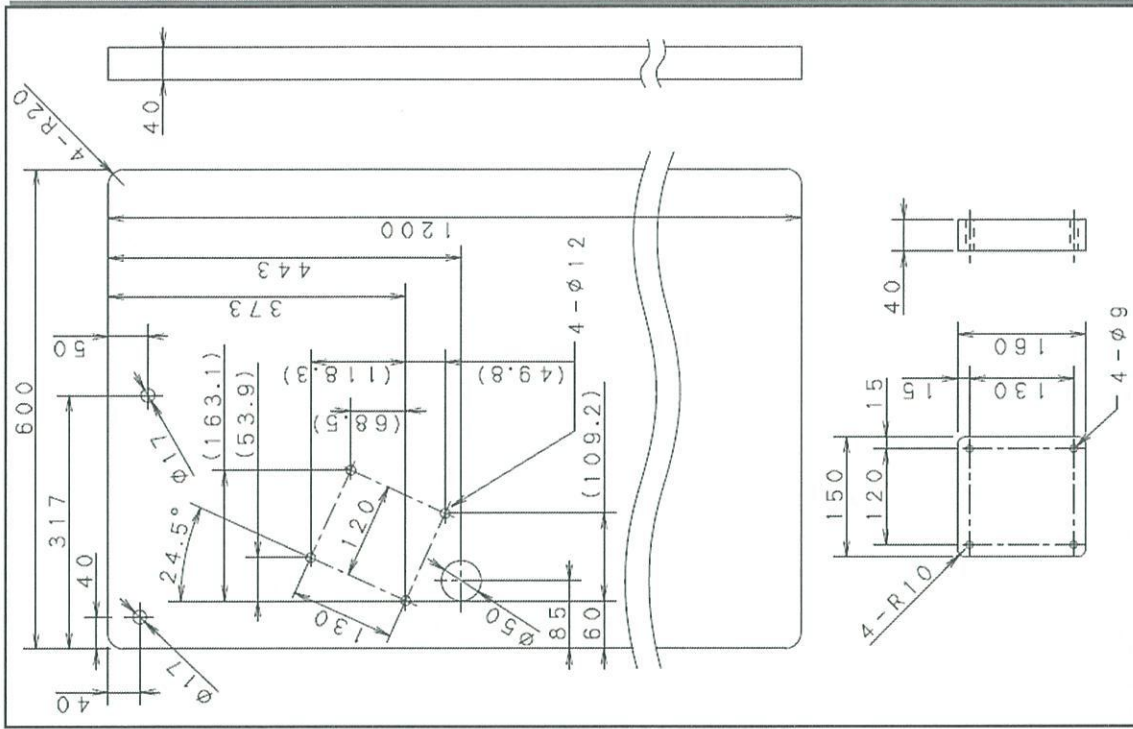
■ Type C (servo motor)



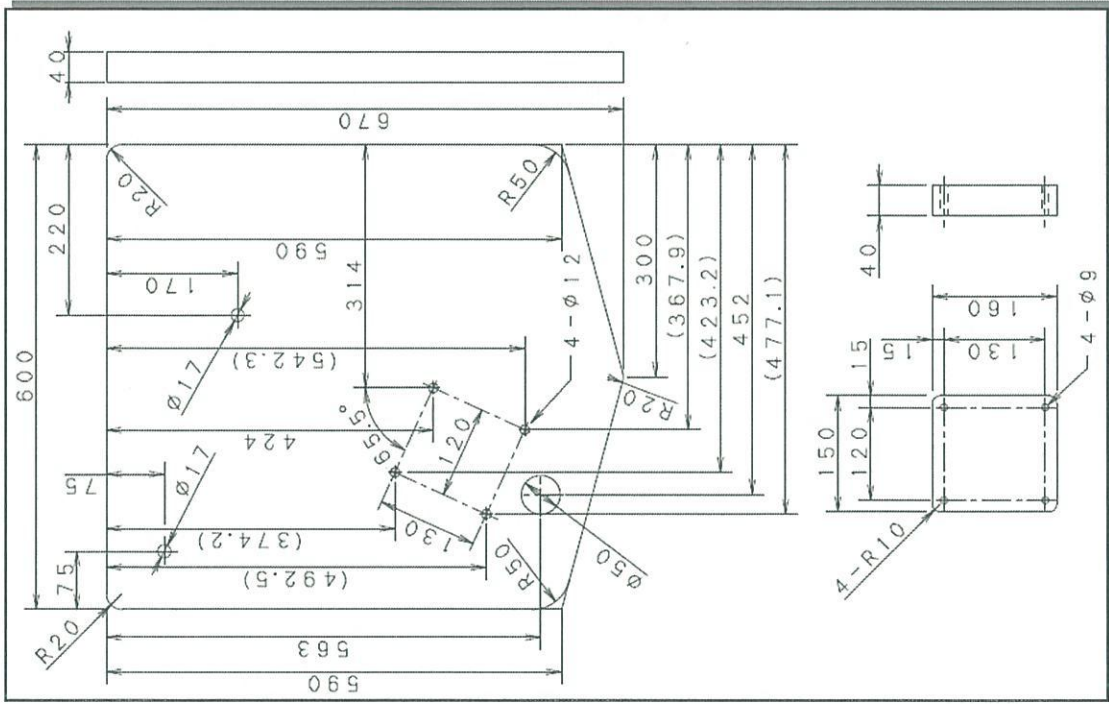
■ Type B (clutch motor)



■ For DD-Motor

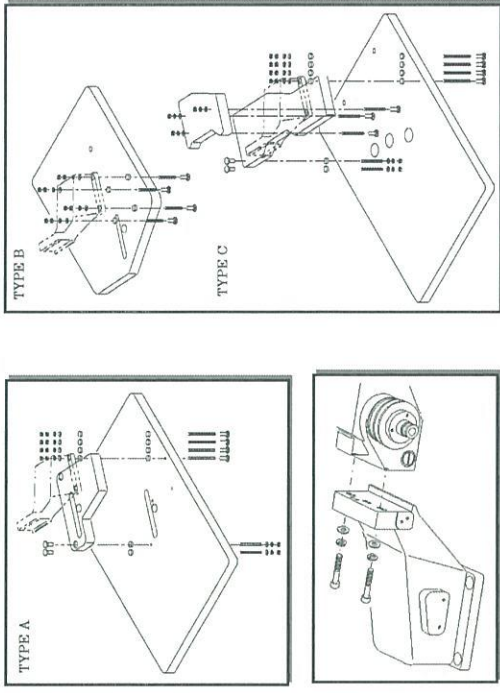


■ For DD-Motor (Pedestal type)



**5-2 Installing the machine and mount base**

■ Install the mount base correctly by referring to the illustration right.

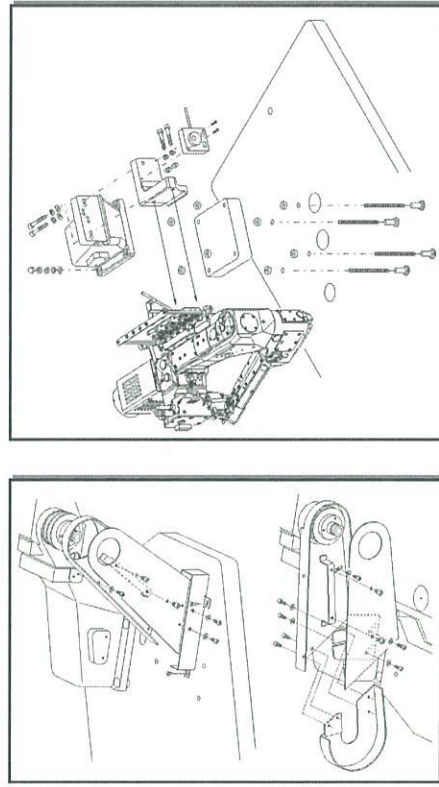


**5-3 Installing the machine with DD-motor**

■ Install the machine correctly by referring to the illustration right.

**5-4 Installing the Pulley (hand-wheel) cover**

■ Install the pulley (hand-wheel) cover correctly by referring to the illustration left.





[6] TIMING OF THE LOOPERS & NEEDLES

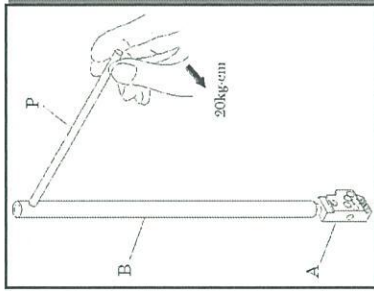
6-1 Installing the needle clamp

Needle-clamp "A" put in to needle-bar "B".  
(Less than 20kg·cm torque to be tighten)

< Note >

Do not more than 20kg·cm torque to tight in case of expand outside diameter of bottom part that disable the needle bar.

※Supplementation: If it uses another part "torque bar-P 16-6612 (optional)", it is suitable to tight.  
Installation: The torque bar P put in to top of needle bar hole and tight until torque bar beginning to bend.

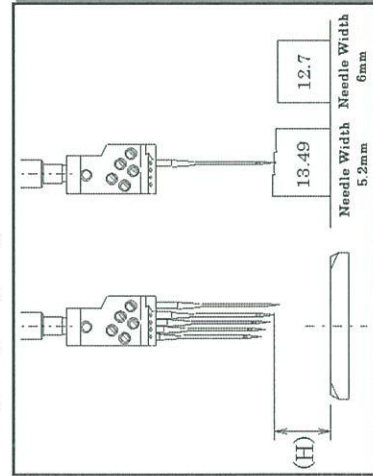


6-2 Adjusting needle bar height

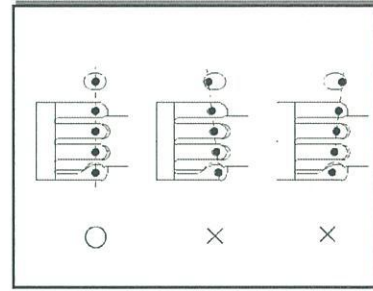
When needles are at highest position, from needle point (4th from left) to surface of needle plate distance size (H), please adjust it as table showed.

Gauge size	Needle height
5.2mm	13.49mm
6.0mm	12.7mm

For adjusting the needle bar, loose screw A and needle bar B can be adjustable by moving up & down.  
Before the adjustment, please check needle drop position should be parallel against needle plate.



※Refer to illustration. (optional height gauge 16-6601)  
It is easy to adjust by using these.



6-3 Adjusting looper back & front stroke

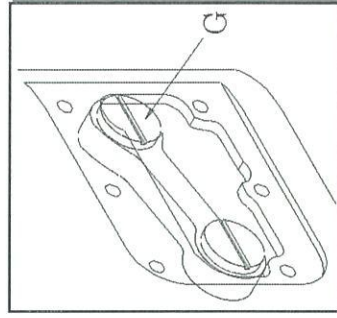
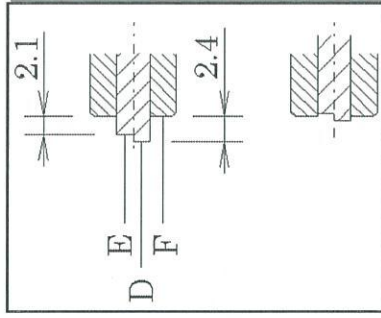
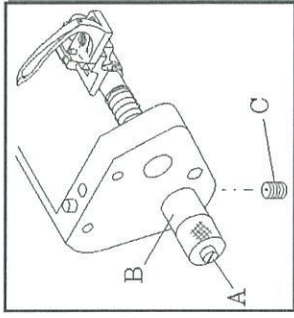
Adjust looper stroke 2.1mm~2.4mm.

※Optional to using special gauge (16-6603), easy to adjust it.

If you do not have special gauge, use micrometer or use depth micrometer-scale.

■How to adjust

1. Set looper axis to the end.
2. Insert special gauge into cylinder-bed top hole (see illustration), then plunger A fully extended by axis (bearing) B push to front and tighten with screw C.
3. Set the looper axis foremost position with turning the hand-wheel clockwise.
4. For checking the back & forth stroke by plunger point.  
D and F surface point suited, as 2.4mm.  
E and F surface point suited, as 2.1mm.  
F surface is between D and E surface, then confirmed.
5. For adjustment, take off the cylinder cover then loose the screw G.  
Put up the G decreases the back & forth stroke.  
Put down the G increase the back & forth stroke.

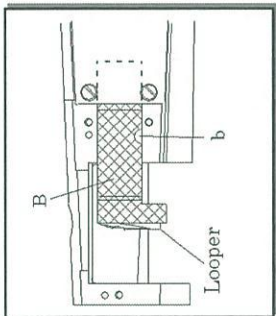
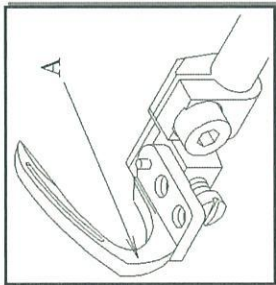


### 6-4 Degree of installing the looper

As for looper angle, looper's A surface is right-angled face to the looper axis.

※(Optional) It is easy to adjust by using the looper angle gauge B (16-6604)

As for using it, as shown in figure: Gauge B put in the entering ditch of cylinder feed rocker, put driver in tapered tool the ditch of screw b at same time apply it to looper. If looper parallel to edge of gauge without gap, get collect angle.



### 6-5 Adjustment of looper right & left amount of stroke

To be suitable looper right & left amount of stroke is looper axis in  $54^{\circ} 40' \sim 56^{\circ} 40'$ .

※For adjustment, use the (optional) looper right & left gauge set (16-6605) part as shown in figure.

1. The dial plate A put into the hole of cylinder-bed edge of point then tighten with screw B as temporary.
2. To use the spare looper's screw C, install the pointer D as shown figure. Put pointer D's edge of point as possible as close to dial plate A.
3. When the looper reach to extreme of right position by turning the hand-wheel, dial plate A's  $0^{\circ}$  position match to the pointer D's edge point then tighten by screw B.
4. When the looper reach to extreme of left position by turning the hand-wheel, it is right position if pointer points  $54^{\circ} 40' \sim 56^{\circ} 40'$  on dial plate. If it doesn't point between these degrees, go to next following instruction.
5. Both cover of top arm and end arm should be take off, then loose the nut E and adjust by screw F (turning the screw left & right). Screw F turn to right, stroke will decrease. Screw F turn to left, stroke will increase. Please go back to begin with 6-5 1. after tighten the nut E.

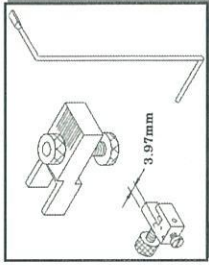
< Note >

After this adjustment, it is important to check the needle and looper timing (6-6).

### 6-6 Needles & loopers timing (relationship)

When needle bar position is extremely bottom point, looper has already begun towards to needle, however, in this position, needle bar & looper does not synchronized.

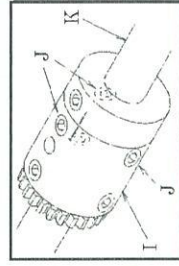
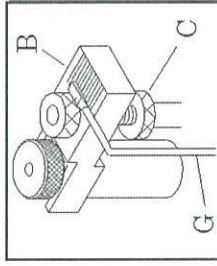
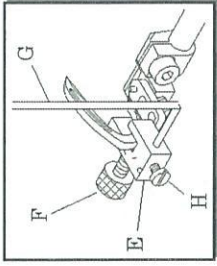
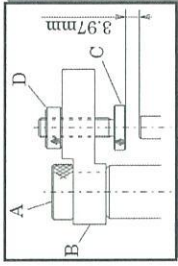
When needle bar rose at 3.97mm point from bottom position, at this point needle bar & looper are synchronized.



※For exactly check the timing, by using the gauge set (16-6611) which is an option.

### Timing gauge and adjustment procedure

1. Needle bar set to extreme bottom position
2. Loosing adjustment screw A, then timing-block B insert. As shown on figure screw C comes to right top of needle bar by block B tighten with screw A.
3. As shown in figure, turning screw C to make space 3.97mm between needle bar top point by tighten with nut D. Used thickness looper-cramp E's arm position (Long).
4. By turning hand-wheel slowly to right, needle bar top apply to screw C.
5. Tighten looper-cramp E by looper screw F, gauge-lot G install to looper-cramp by screw H then gauge-lot point fixed close to center of timing-block B dial scale.
6. By turning hand-wheel slowly to left, needle bar top apply to screw C, look at gauge G point indicated on dial. If gauge point indicated on dial which same as procedure 5, then it is correct. If it isn't synchronized, go to next following procedure 7.
7. Taking off the crank-room, cover and packing then loosening joint-color screw (3 places). Turning hand-wheel to the right, needle bar top apply to screw C, if gauge-lot top point comes near to the right at clockwise, looper timing is early and reverse (to the left) main shaft against to crank-shaft. If the situation opposite (Looper timing is slow as gauge-lot near to the left, please do as opposite, main-shaft turned to right.)



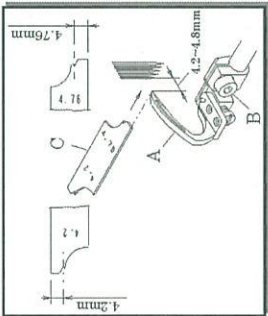
< Note >

For adjusting joint-color I, repeating procedure 5, 6. However one of screw J tightens as temporary for convenience. After finishing adjustment, tight all 3 screw J then re-check the timing following by 1-6 procedure.

### 6-7 Looper setting distance (amount of pull stroke)

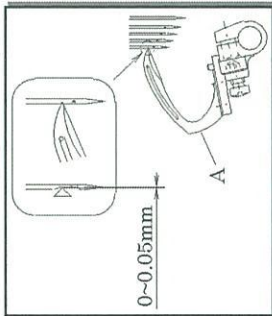
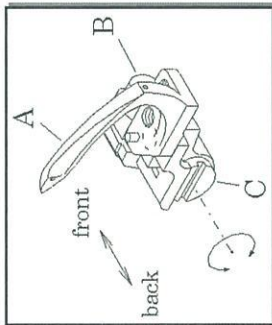
When the looper A is at the extreme left point, from left, center of needle to the looper point distance should be 4.2mm~4.8mm as standard. For adjustment, loosening screw B.

※It is easy to check the distance by using looper pull-gauge (another sale) C (16-6609).



### 6-8 Adjusting looper back & forth position

When the looper A move from extreme left point to the right, the looper A should pass behind the needle, but when looper A point reach to center of left needle(among of needles), looper A and left needle should have distance 0mm~0.05mm without touched. For adjustment, loosening screw B, then turning screw C to move looper holder back & forth. After adjustment, check the amount of looper front-to-back stroke then tight the screw B.

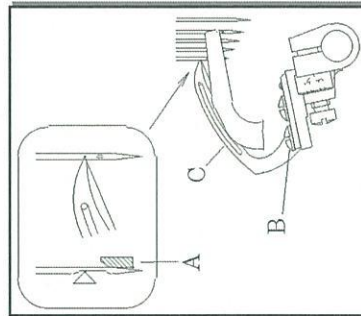


## [7] ADJUSTING THE NEEDLE GUARD

### 7-1 Auxiliary looper adjustment

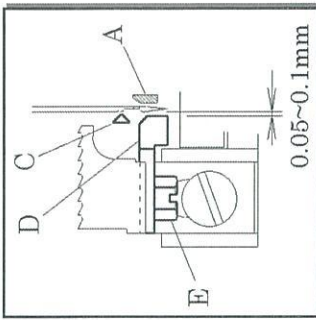
When the looper C point reach to center of left needle, to effecting auxiliary looper A to adjust between needle and looper's gap at 0mm. For adjustment, loosening screw B.

< Note >  
Turning hand-wheel to the clockwise, when looper C travel from left to right, check the needle does not swing to right due to looper C point touch the back of needles. (Looper C should not be pushing the needle)



### 7-2 Adjusting needle guard

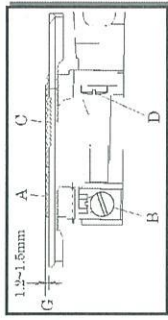
When needle guard D extremely approach to left needle, as loosening screw E to adjust the between left needle and needle guard set the gap at 0.05mm~0.1mm.



## [8] ADJUSTMENT OF FEED DOG

### 8-1 Adjusting feed dog height

When feed dog extremely raise to top, line G set to 1.2mm~1.5mm as shown figure, from main feed dog A and differential feed C's point connect to line G. For adjustment, loosening screw B and D then move feed dog A and C.



### 8-2 Adjusting differential feed ratio

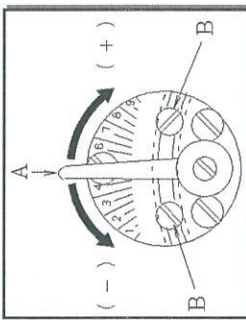
To adjusting differential feed, move lever left-to-right. When lever is between dial "4" and "5", differential feed comparison ratio is 1:1, differential is ineffective.

#### ■ Normal differential feed (for gathering effect)

When lever A move to (+) direction, it is positive differential effect. The maximum ratio 1:1.5 is when lever A at dial "9".

#### ■ Reverse differential feed (for stretching effect)

When lever A move to (-) direction, it is negative differential effect. The maximum ratio 1:0.7 is when lever A at dial "1".



< Note >

Screw B is for regulate the differential feed ratio or fixed level to be used.

### 8-3 Adjusting the stitch length

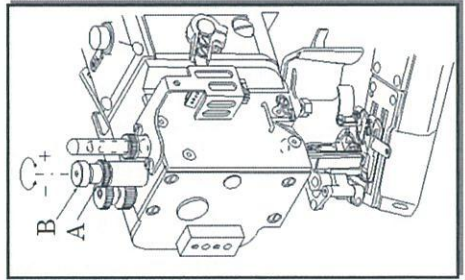
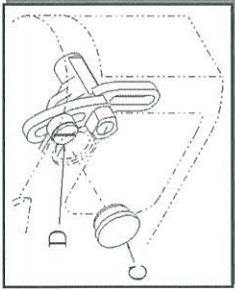
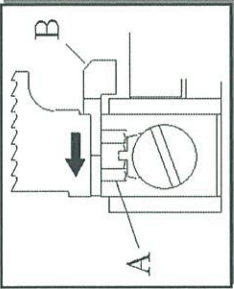
It can be adjustable stitch length 1.6mm~2.5mm with no stage.

■ To change the stitching length

1. Loosen screw A, needle guard move to extreme rear end then tight temporary.  
※if it is necessary to change short stitch length, this task do not need it.
2. Remove rubber plug C
3. Loosen screw D to adjust stitch length.  
To move screw D upward then length increase.  
To move screw D downward then length decrease.
4. When stitch length has decided, tighten screw D securely and then replace the rubber plug C.
5. Adjusting needle guard B and tighten screw A (refer to "7-2" adjusting needle guard).

※As shown on figure (sheet): the number of stitches per inch(25.4mm).

Stitch length (mm)	Number of stitches per inch
2.5	10
2.3	11
2.1	12
1.9	13
1.8	14
1.7	15
1.6	16



### 9-1 Adjusting presser foot

The presser foot pressure can obtain as feed works accurately and it uses as much as possible within the steady stitch length by light pressure.

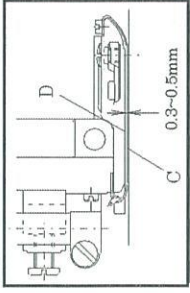
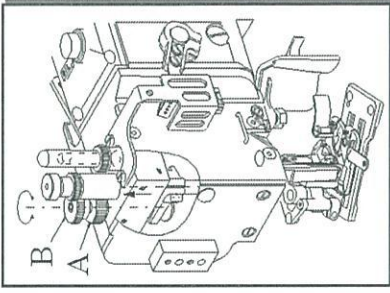
Loosen nut A, turning screw B to the right, pressure will increase and turning to the left, pressure will decrease.

### 9-2 Adjusting presser foot up & down position

To presser foot float a little, it will have several effect as below.

- Prevention of stitch blocking
- Prevention of feeding scratches
- Improvement of presser shoes endurance
- Decrease the vibration and noise
- Possible to micro-adjustment for piled up fabric

1. Set needle to extreme bottom position.
2. Loosen nut A and screw B turn to left then put up the presser foot.
3. Adjust presser shoes and presser bottom face gap at 0.3mm~0.5mm.
4. Tighten the nut A.



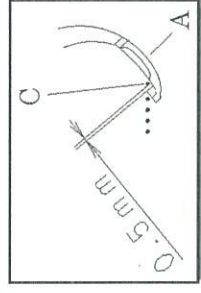
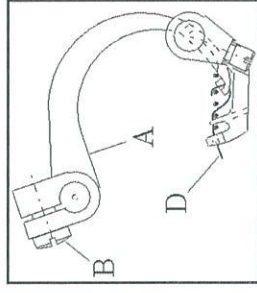
### [10] ADJUSTING SPREADER (HOOK) & CARRIER

#### 10-1 Adjusting spreader (hook)

Please set the hook A to extreme right position.

Loosen screw B to adjust hook A & retainer needle gap at 0.5mm (standard position).

When stitching adjustment, hook forward to left, check the decoration thread D into under the hook.  
If it can not into under the hook, then loosen the screw B and adjust hook to left.



### 10-2 Adjusting the carrier

When carrier E extremely approach to first needle, loosen screw F to adjust that set the distance at 1mm from carrier point G to center of first needle.

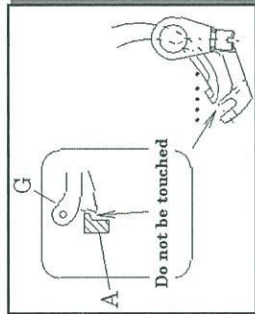
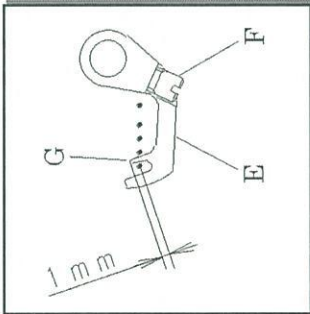
As adjusting stitch, when carrier extremely approaches to first needle, check the decoration thread through behind the 1st and 2nd needles.

If it can not through behind the needle, carrier E push little bit to the rear direction. (Carrier E and first needle should not be touched)

If decorated thread get through behind the 3rd needle, put back carrier E to front.

<Note >

When hook A and carrier E extremely approached, do not be touched.



## 【11】 ADJUSTING THE STITCH FORMATION

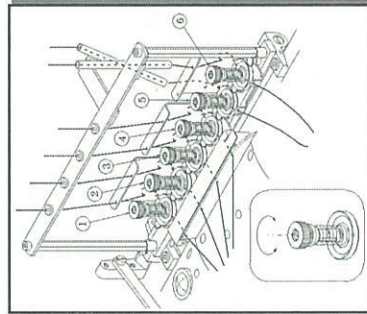
### 11-1 Adjusting thread tension

Thread tension change according to fabric material, kind of thread, stitch thickness, stitching length, and condition of usage.

Please adjust the thread tension nut ① ~ ⑥ condition of usage.

- ①~④ Needle thread
  - ①/Right needle, ④/Left needle
- ⑤ Decoration thread
- ⑥ Looper thread

- To turning the tension clockwise, thread is tighten.
- To turning the tension reverse-clockwise, thread is loosen.



### 11-2 Adjusting needle tension

#### ■ Adjustment of upper thread guard

There are 4 upper thread guards per 4 needles thread: each needle thread can be adjustable.

1. Set needle bar arm thread road A extremely bottom position.
2. Needle bar arm thread road at the center of eyelets F, set the upper thread-guard B upper point.
3. Upper-thread-guard C raise 3.2mm against the B.
4. Upper-thread-guard D raise 1.6mm against the B.
5. Upper-thread-guard E same height as B or raise 0.8mm.
6. Above all adjustment loosen screw G and after finished adjustment tighten the screw again.

<Note >

Each upper-thread-guard top should be horizontal.

Above size is standard position, please adjust appropriately as move upper-thread-guard up & down to become needle thread loop size according to actual stitching.

- To move the upper-thread-guard to up, needle thread loop become bigger.
- To move the upper-thread-guard to down, needle thread loop become smaller.

#### ■ Adjusting the needle-thread-road (As shown figure)

1. Needle-thread-road H's height match to eyelet M.
2. Needle-thread-road I is lower than H for 5mm.
3. Needle-thread-road J is lower than H for 9mm.
4. Needle-thread-road K is lower than H for 15mm.

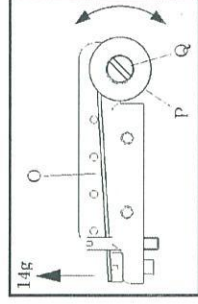
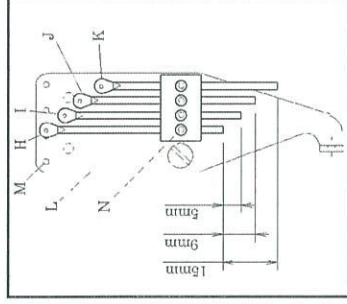
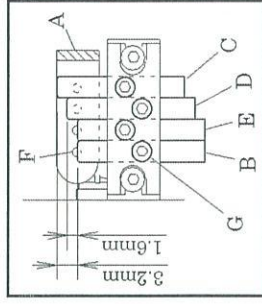
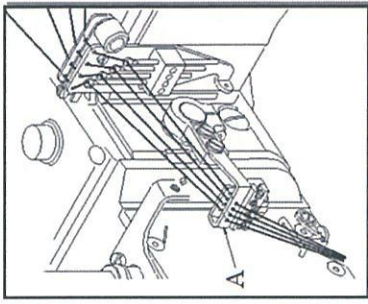
Needle thread's thread tension adjust by loosen each screw N.

- To move needle-thread-road to upward, needle thread is loosen.
- To move needle-thread-road to downward, needle thread is tighten.

#### ■ Adjusting needle thread road spring

When you remove the fabric from the presser while sewing it, turn the hand-wheel to reverse clockwise. At this time, need thread road spring O should act as not to make the loop forward of the needle.

Needle thread road spring O's pressure is 14g as standard. For adjusting it, loosen screw P and turn the spring holder Q.



### 11-3 Adjusting looper-thread-tension

The right illustration is looper-thread take-up-cam as seen from the front.

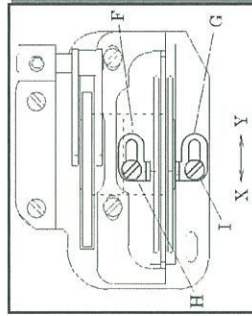
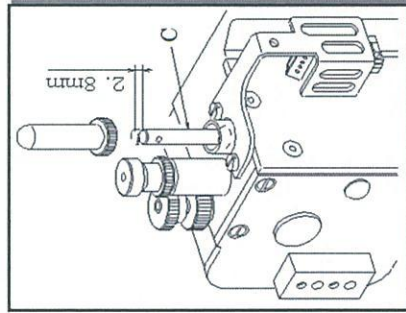
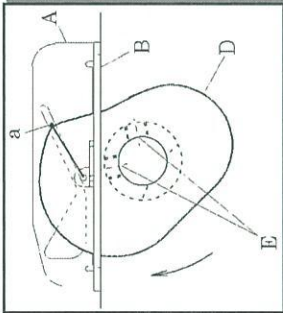
- Lower-thread-control thread guide positioning  
Lower-thread-control thread guide A's right edge match to lower-thread-control plate B's right edge to install.
- Timing of lower-thread tension  
When needle bar come 2.8mm down from extreme high position, lower-thread tension D "a" match that looper-thread should be able to through (as shown figure) as standard.  
For adjusting this, loosen screw E.

- If timing is faster, increase amount of looper-thread filature.
- If timing is slower, decrease amount of looper-thread filature.

<Note >  
For adjusting lower-thread-tension D, not to change the positioning as boss edge side apply to decoration boss edge side.

- Adjusting lower-thread-control, plate-thread road  
Plate-thread-road F, G is positioning the extremely right edge as standard. For adjustment, loosen screw H, I to move right-to-left.

- To move X direction, lower-thread amount increase
- To move Y direction, lower-thread amount decrease



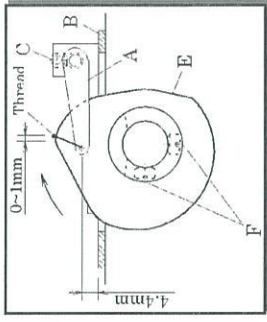
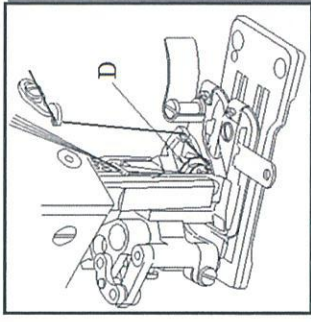
### 11-4 Adjusting decoration-thread-tension

The right illustration is decoration-thread tension as seen from front.

- Position of lower-thread-control guide  
Center of lower-thread-control guide A hole and plate B gap at 4.4mm are standard.  
For adjusting, loosen screw C and guide A move up & down.
- Move guide A to downward, decoration-thread filature increase
- Move guide A to upward, decoration-thread filature decrease

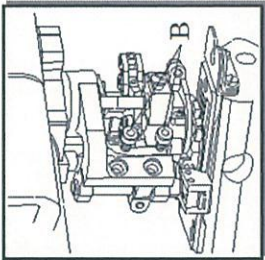
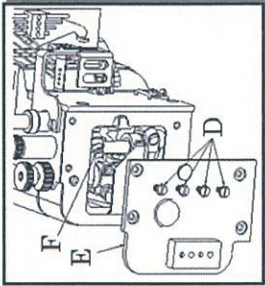
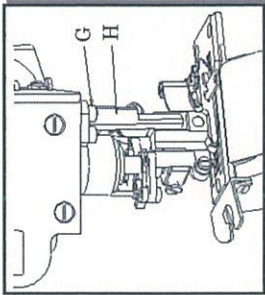
- Timing of decoration tension  
Decoration-thread hold distance 0-1mm from decoration thread tension E's extreme height point when thread synchronized hangs hook D.  
For adjustment, loosen screw F.

<Note >  
To adjusting the decoration-thread tension, not to change the positioning as boss edge side apply to decoration boss edge side.

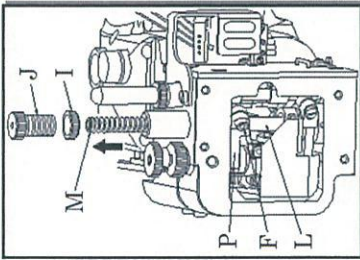


### [112] REPLACING THE PRESSER FOOT

- Removing presser foot
  1. Loosen screw A
  2. Loosen screw B, then remove the upper-knife-holder including knife.
  3. Loosen screw D then remove the cover E
  4. Loosen screw F
  5. Loosen screw G then remove guide H



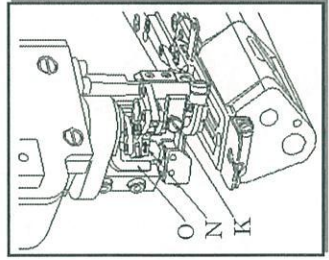
6. Loosen nut I then remove screw J
7. Loosen screw K
8. Turning hand-wheel, set the needle extreme top and remove from presser foot as far as presser bar L and spring M lift up together.
9. Presser-carrier segment N remove from decoration drive sleeve O then presser-set remove to back



- Installing presser foot
 

Referring to figure, install from opposite procedure 9. ~ 1.

  - When presser-foot install, decoration drive sleeve's lever O set to carrier-hook N and paralleled.
  - When guide H install, presser foot should not be shaken horizontally and for moving upward & downward as lightly.
  - When upper-knife holder (including knife) install, refer (1.3" replacing the knife").
  - When needle is extremely bottom position and it stick needle plate, lightly push the presser foot bar-guide P at same time tighten the screw F.



### [113] ADJUSTING & REMOVING THE KNIFE

- To removing the knife
 

Upper knife: Loosen screw C and D then remove upper-knife A

Under knife: Loosen screw E and remove the under knife B
- To installing the knife
 

Under knife: Under knife B is installed tighten by screw E

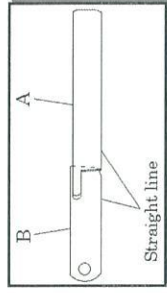
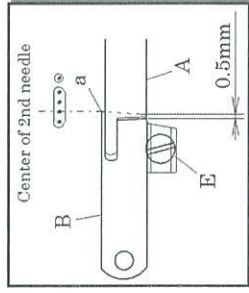
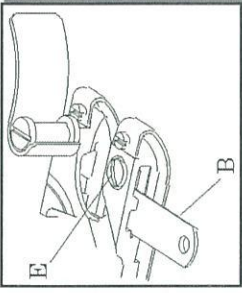
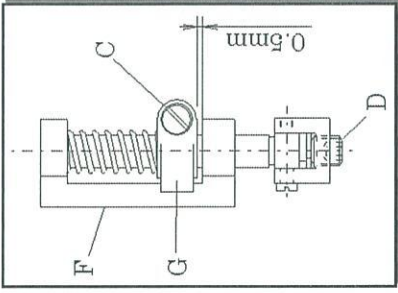
Upper knife: Upper knife A is installed tighten by screw D
- To adjusting knife
 

Under-knife standard position is: When under knife B's head point "a" set to center of 2nd needle. For adjustment, please do so according to fabric material.

Upper knife position is: When upper knife A is at extremely left side position, set the position.

Under knife B and upper knife A engagement gap at 0.5mm.

Upper knife pressure is: needle position is at extremely bottom and presser foot stick with needle plate, moreover, upper knife stick to under knife then upper knife holder F axis guard and upper knife guide G gap at 0.5mm as a standard. (As shown figure)



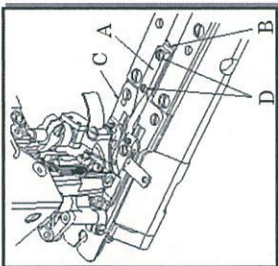
< Note >  
 When fixed the upper knife guide G, upper knife should not be touch to presser foot and upper knife A and under knife B's front side should be matched.

**[14] TO USING THE FABRIC GUIDE**

■ Standard left-right position should be fabric guide A positioned center of needles.

■ Standard front-back position should be fabric guide plate B touched needle plate C.

Please adjust left-right position depending on feeding condition and left & right fabric swamped condition. For adjustment, loosen screw D. And according to fabric thickness, adjust the front-back position toward to front lightly.



NFS6604GLM	NFS6604GMH	Custom-made part
Part No. 26-650	Part No. 26-651	Part No. 26-637



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