

PARTS LIST & INSTRUCTION

NFS GF SERIES

Industrial Sewing Machines

NFS6604GF / S, SL, LM, MH, MH-B / DD

2018 年 3 月 初版 発行

1st edition: March. 2018

No. 180015

KANSAI
SPECIAL®

■このパーツブックは、2018年3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。

■This parts book is based on data current March 2018.

■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.

NFSシリーズ 表示方法

NFS SERIES INFORMATION

■ NFS6604GF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。

NFS6604GF 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 GF LM - DD - 52

■ GF: レバー式送り調整仕様

With a adjust lever for feed amount

■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.

■ SL : 4本針6本糸 片切りテープ付けです。

4-Needle 6-Thread, One side fabric trimmer for tape attaching

■ 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.

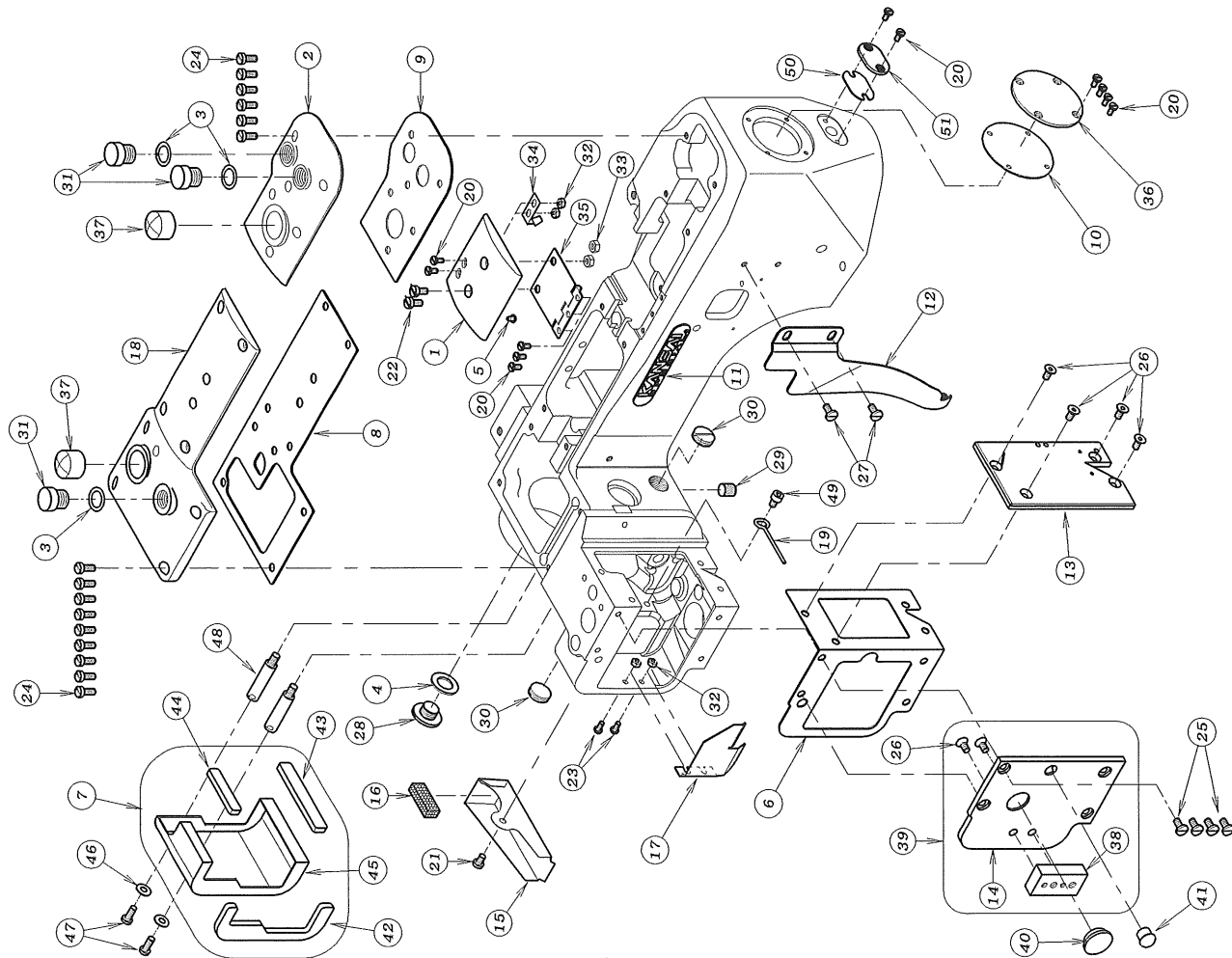
■ MH-B : 4本針6本糸 両切り、中厚物及び厚物ニット等の突合わせ縫い。(ブットシーム)

4-Needle 6-Thread, For medium to Heavy weight fabric. Both side fabric trimmer without overlapping fabrics. (butt seams)

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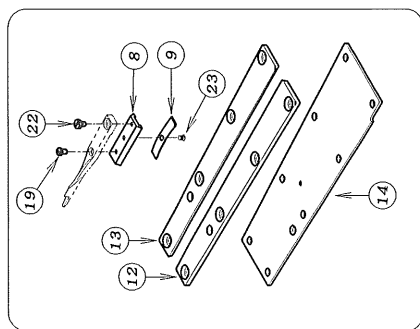
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1. フレーム関係 (1) FRAME ASSEMBLY (1)

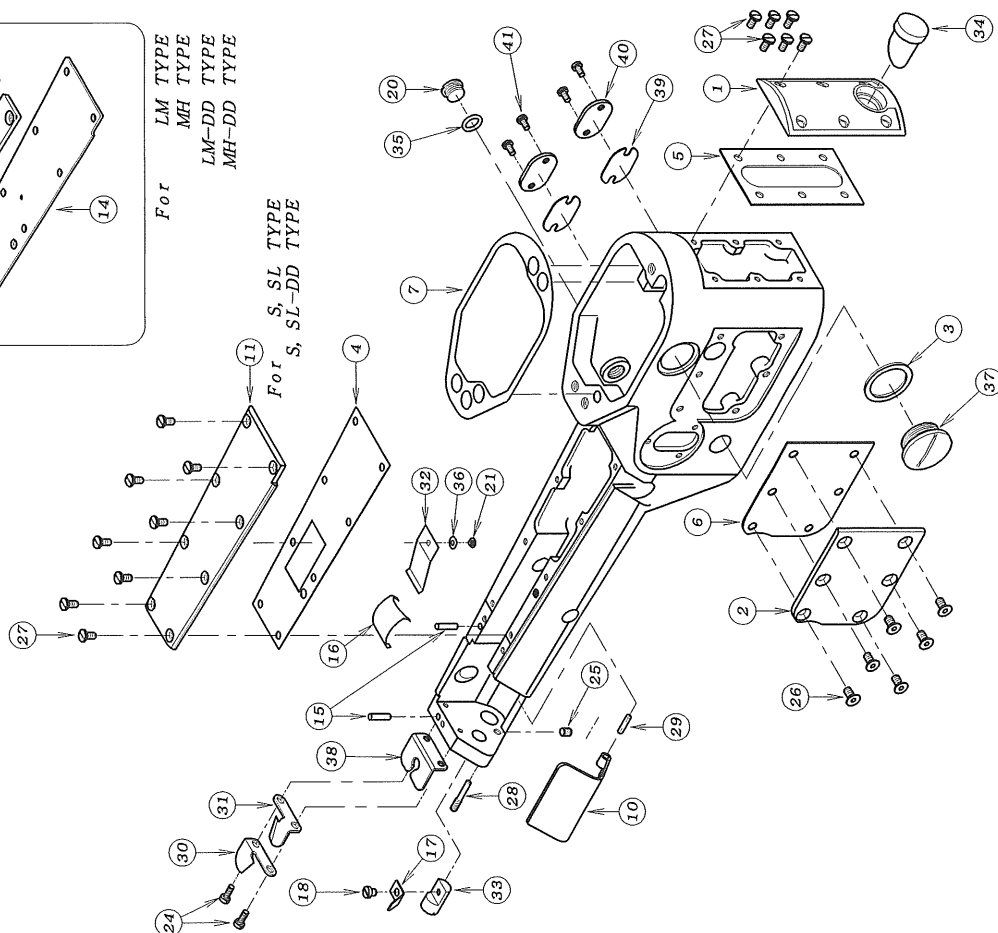


REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
01-01	21-841	トップ カハ' - (中)	TOP COVER (MIDDLE)	1
01-02	21-845	アームトップ カハ' -	ARM TOP COVER	1
01-03	23-190	リング	O RING	3
01-04	23-304	シール	SEAL	1
01-05	23-512	クッションゴ' A	CUSHION RUBBER	1
01-06	23-627	針棒ハウジングカハ'-パッキン	GASKET	1
01-07	20-633 2	油受けカハ'-セット図	OIL GUARD COVER ASS' Y	1
01-08	23-665	クランク室パ' ッキン	GASKET	1
01-09	23-666	トップ カハ' - 後ハ' ッキン	GASKET	1
01-10	23-669	パ' ッキン	GASKET	1
01-11	24-069	銘板	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	面板オイルフエンス	OIL GUARD	1
01-18	27-617	クランク室カハ' -	COVER	1
01-19	31-613	オイルガイド	OIL GUIDE	1
01-20	87-090	ネジ	SCREW	11
01-21	187-481	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	プラグネジ	PLUG SCREW	2
01-31	187-680	オイルカプ' 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	アームエンド' カハ' -	ARM END COVER	1
01-37	98-737	オイル窓	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	防振マツト	CUSHION	1
01-43	23-629	防振マツト	CUSHION	1
01-44	23-630	防振マツト	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	187-483	プラマイナベ小ねじ	SCREW	2
01-48	87-445	支柱ネジ	SCREW	2
01-49	187-092	六角穴付きボルト	BOLT	1
01-50	23-632	軸カハ' - パ' ッキン	GASKET	1
01-51	27-659	軸カハ' -	SHAFT COVER	1

2. フレーム関係 (2) FRAME ASSEMBLY (2)

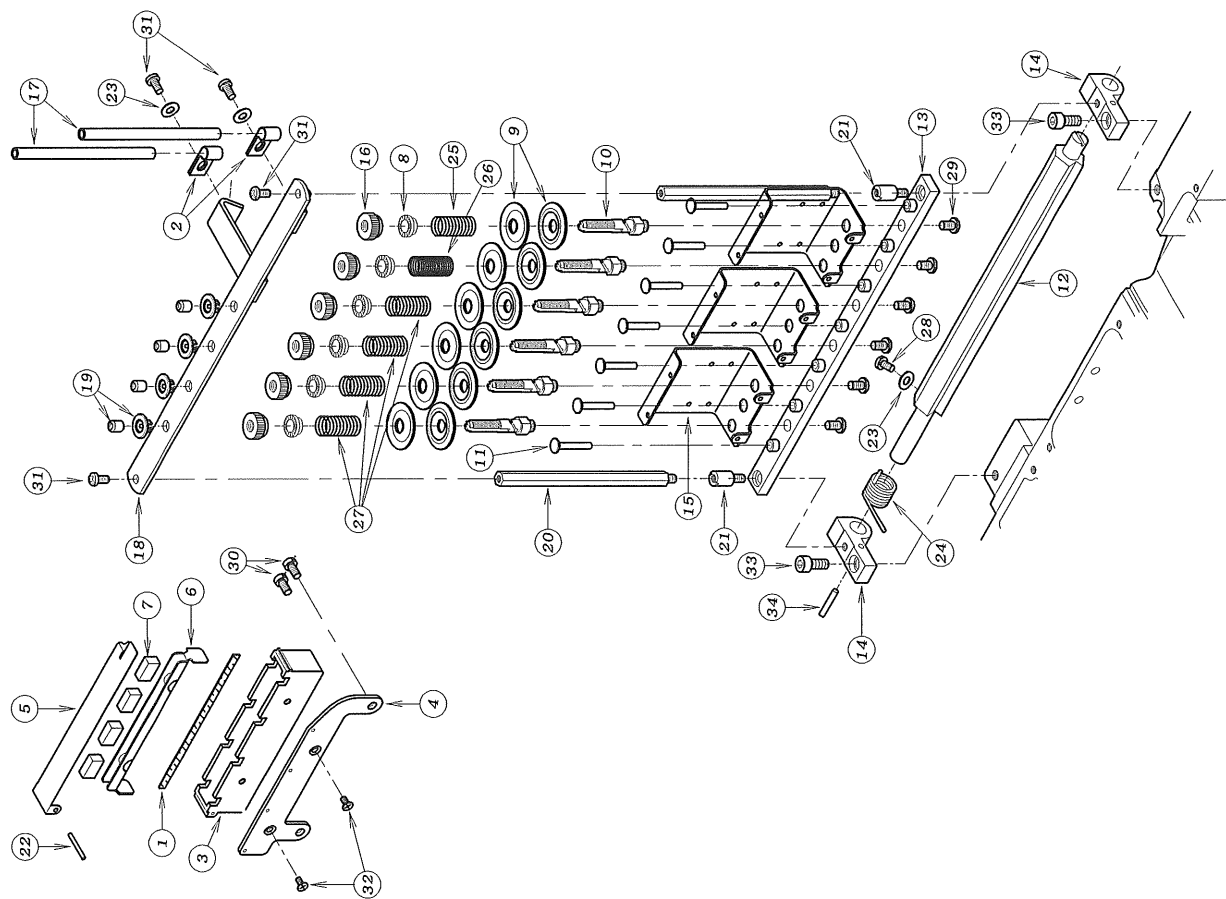


For LM TYPE
MH TYPE
LM-DD TYPE
MH-DD TYPE



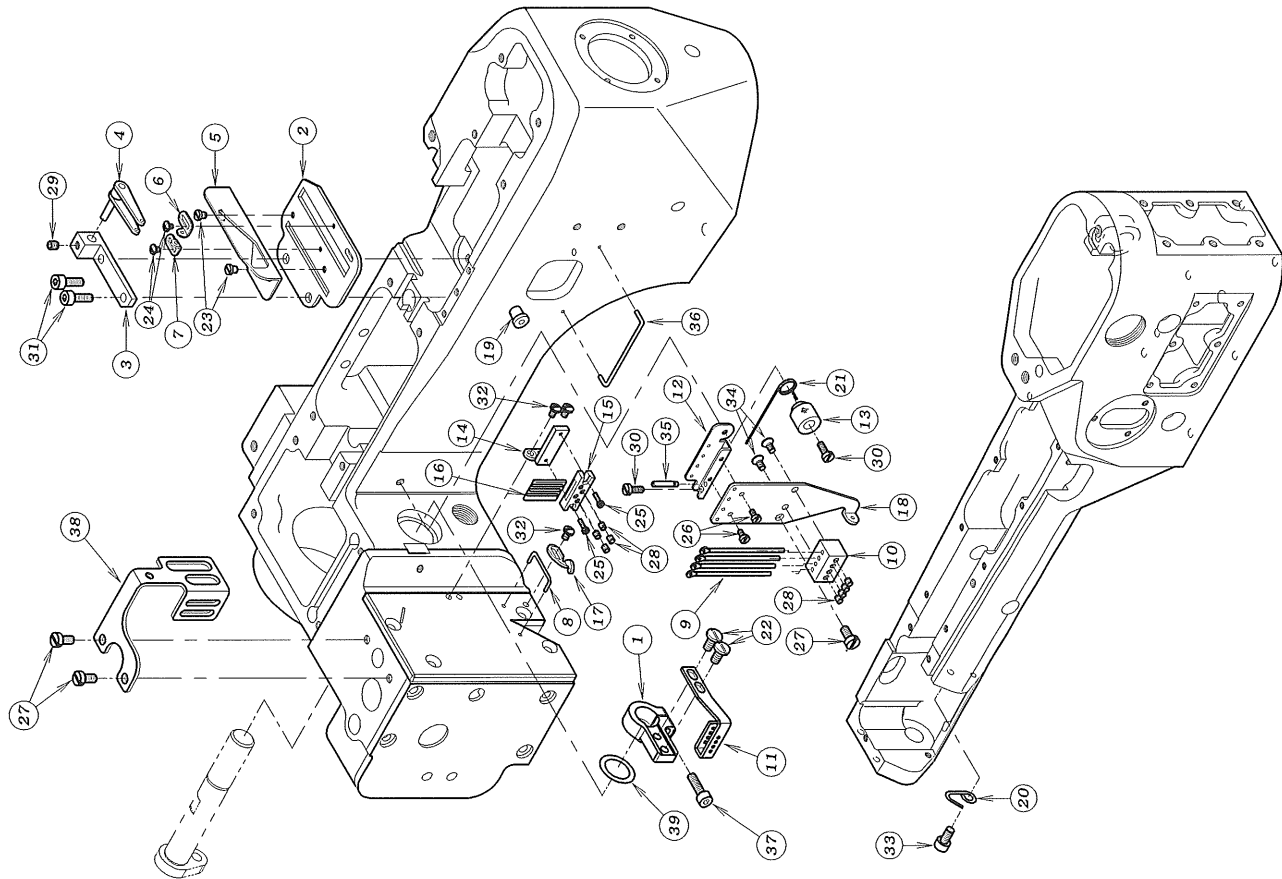
REF. NO.	PART NO.	品 名	DESCRIPTION	QTY
02-0121-997	02-0121-997	シリンダ - カハ - (前)	CYLINDER COVER (FRONT)	1
02-0221-998	02-0221-998	シリンダ - サイド - カハ -	CYLINDER SIDE COVER	1
02-0323-298	02-0323-298	フタネジ用シール	SEAL	1
02-0423-620	02-0423-620	パッキン	GASKET	1
02-0523-624	02-0523-624	パッキン	GASKET	1
02-0623-671	02-0623-671	パッキン	GASKET	1
02-0723-672	02-0723-672	スベ - サ -	SEWING CYLINDER GASKET	1
02-0826-638	02-0826-638	布カ イト 取付け台	SLIDE BLOCK	1
02-0926-639	02-0926-639	布カ イト 取付け台 - ネ	SPRING	1
02-1027-608	02-1027-608	ル - ハ - カハ -	LOOPER COVER	1
02-1127-612	02-1127-612	シリンダ - トップ - カハ -	CYLINDER COVER	1
02-1227-618	02-1227-618	シリンダ - ガ イト 板 (左)	GUIDE PLATE (LEFT)	1
02-1327-619	02-1327-619	シリンダ - ガ イト 板 (右)	GUIDE PLATE (RIGHT)	1
02-1427-620	02-1427-620	シリンダトップカバー	CYLINDER COVER	1
02-1571-804	02-1571-804	針板ノックピン	PIN	2
02-1679-604	02-1679-604	シールスプ リンク	SEAL SPRING	1
02-1779-620	02-1779-620	板バネ	SPRING	1
02-1884-364	02-1884-364	ネジ	SCREW	1
02-1985-107	02-1985-107	ネジ	SCREW	1
02-2085-522	02-2085-522	ネジ	SCREW	1
02-2185-604	02-2185-604	ネジ	SCREW	1
02-2285-618	02-2285-618	ネジ	SCREW	1
02-2385-616	02-2385-616	ネジ	SCREW	1
02-2487-128	02-2487-128	ネジ	SCREW	2
02-2587-181	02-2587-181	ネジ	SCREW	1
02-2687-269	02-2687-269	ネジ	SCREW	6
02-2787-677	02-2787-677	ネジ	SCREW	14
02-2887-678	02-2887-678	シリンダ - カハ - ネジ ピン	SCREW PIN	1
02-2998-658	02-2998-658	ピン	PIN	1
02-3098-662	02-3098-662	カッター (下)	CHAIN-OFF CUTTING KNIFE (LOWER)	1
02-3198-663	02-3198-663	カッター (上)	CHAIN-OFF CUTTING KNIFE (UPPER)	1
02-3298-665	02-3298-665	タ ストシールハ - ネ	SPRING	1
02-3398-670	02-3398-670	スプリング サポ - トスタット	SPRING SUPPORT STUD	1
02-3498-734	02-3498-734	オイルナ - ジ	OIL GAUGE	1
02-3523-189	02-3523-189	O-リング	O-RING	1
02-3675-441	02-3675-441	ワッシャ	WASHER	1
02-3787-812	02-3787-812	ネジ	SCREW	1
02-3827-645	02-3827-645	安全カバー	COVER	1
02-3923-632	02-3923-632	軸カハ - ハ - ッキン	GASKET	2
02-4027-659	02-4027-659	軸カハ -	SHAFT COVER	2
02-4187-090	02-4187-090	ネジ	SCREW	4

3. 糸調子機構 THREAD TENSION MECHANISM



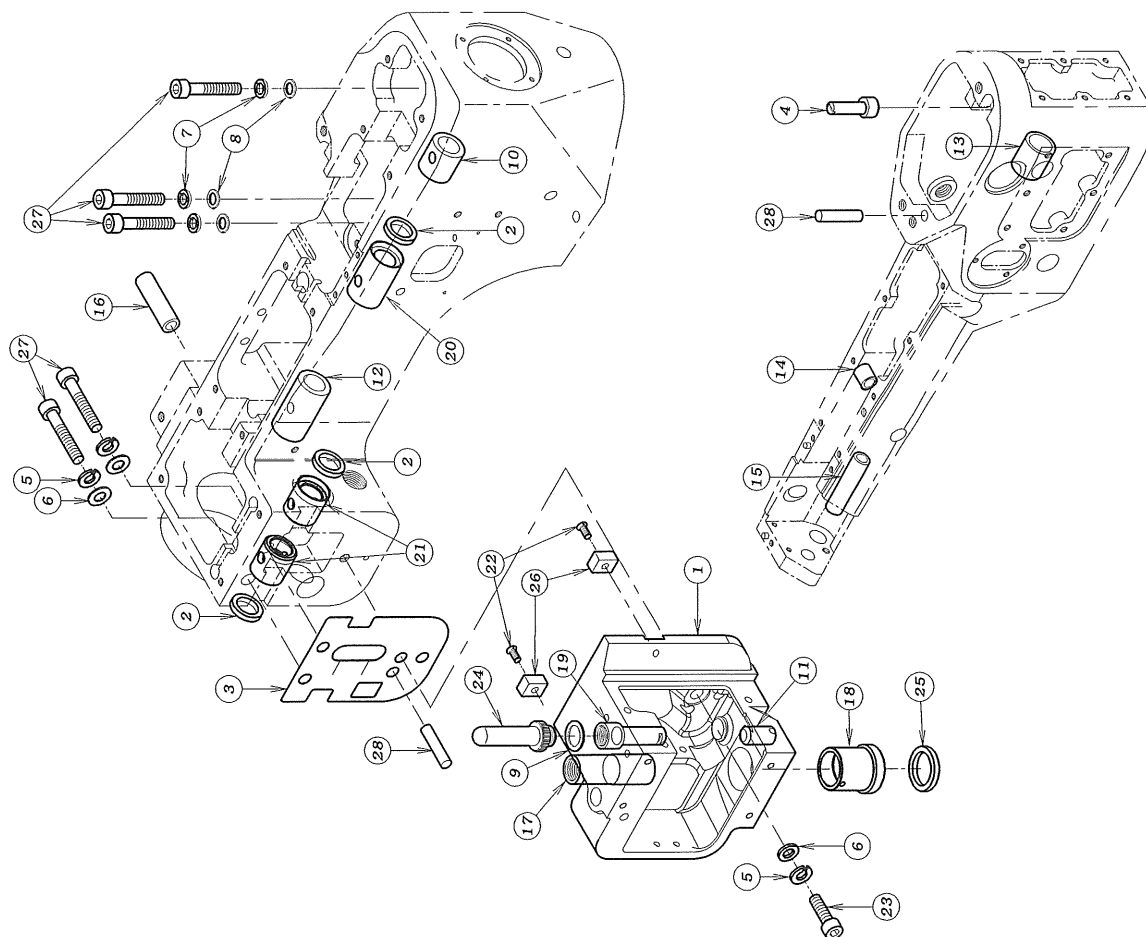
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
03-01	23-341	フェルト	FELT	1
03-02	25-217	ハ イ° 取付金具	LATCH	2
03-03	27-551	シリコンタンク	SILICONE OIL RESERVOIR	1
03-04	27-552	シリコンタンク° ラケット	BRACKET	1
03-05	27-553	シリコンタンクカバー	COVER	1
03-06	27-554	フェルト受け	FELT STAY	1
03-07	27-555	フェルト	FELT	4
03-08	41-105	チャンボン皿ラチェット	SPRING POST	6
03-09	41-509	チャンボ° シ皿	TENSION DISC	12
03-10	41-160	チャンボ° シ調子棒	TENSION POST	6
03-11	41-603	糸緩めピン	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	プレート° ラケット	BRACKET	2
03-15	41-607	チャンボ° シ台糸道	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	スプ° リング° ピ° シ	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	ルーパー糸調子ハ° 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	4
03-33	87-252	六角穴付きボルト	BOLT	2
03-34	93-724	スプ° リング° ピ° シ	SPRING PIN	1

4. 糸道機構 THREAD EYELET MECHANISM



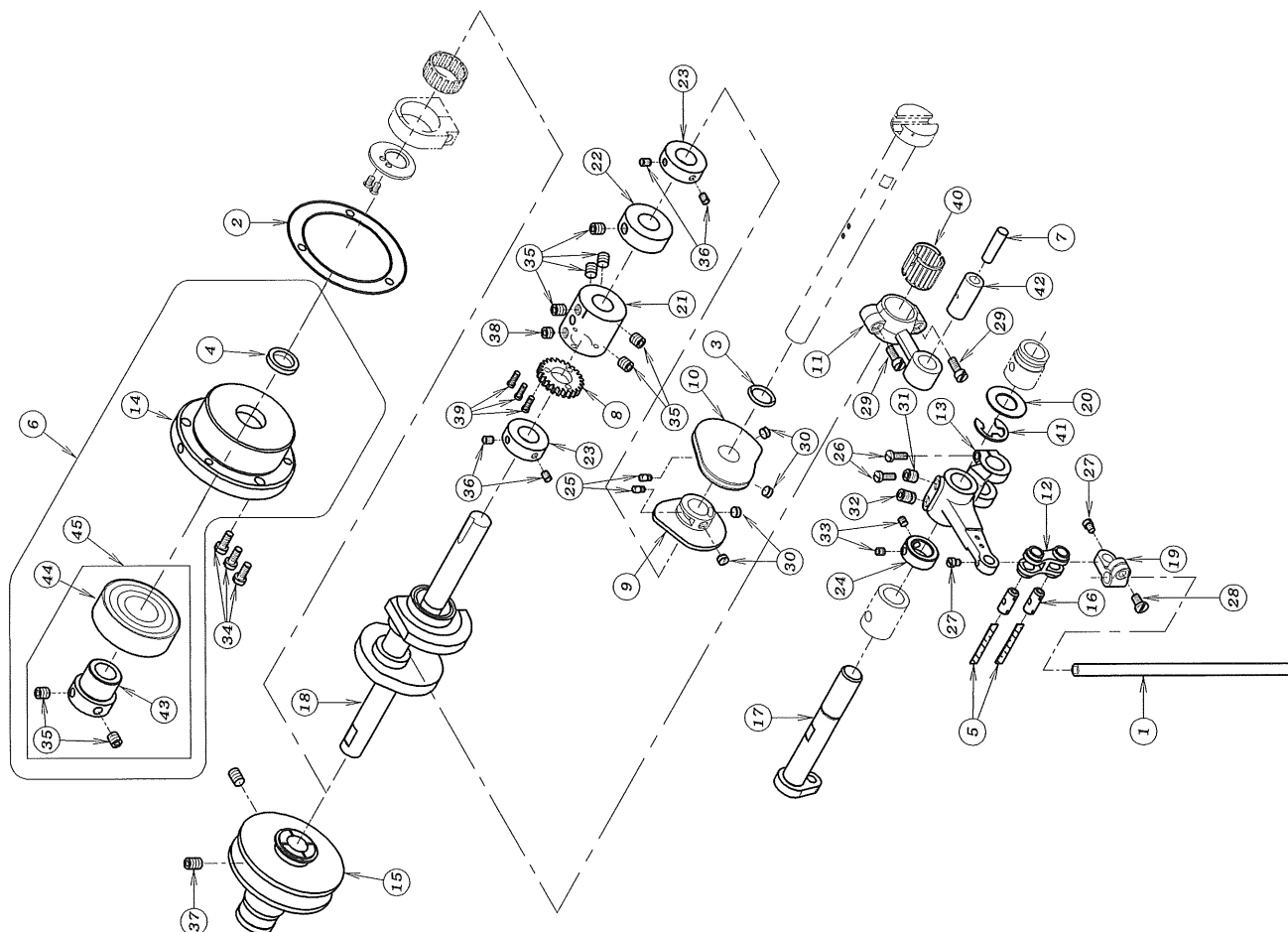
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
04-01	67-611	針繰糸道取付台	THREAD EYELET LEVER	1
04-02	43-607	下糸捌き板	SUPPORTING PLATE	1
04-03	43-608	下糸捌きブラケット	BRACKET	1
04-04	43-609	下糸捌き案内	THREAD TAKE-UP EYELET	1
04-05	43-610	下糸捌き糸ガイド	THREAD GUIDE	1
04-06	43-611	下糸捌き板糸道A	THREAD EYELET	1
04-07	43-612	下糸捌き板糸道B	THREAD EYELET	1
04-08	45-246	上糸ガイド・ハ・ー	GUIDE PIN	1
04-09	45-543	糸道	THREAD EYELET	4
04-10	45-553	ホルダー	HOLDER	1
04-11	45-626	針繰糸道	THREAD EYELET	1
04-12	45-612	上糸捌き糸道 (B)	THREAD EYELET	1
04-13	45-613	スプ・リンク・ホルダー	HOLDER	1
04-14	45-614	糸受ブラケット A	BRACKET	1
04-15	45-615	糸受ブラケット B	BRACKET	1
04-16	45-616	上糸受け	NEEDLE THREAD STRIKE-OFF PIN	4
04-17	45-617	上軸り糸道	THREAD EYELET	1
04-18	45-622	上糸捌き糸道 (A)	THREAD EYELET	1
04-19	45-624	糸案内糸道	THREAD EYELET	1
04-20	47-601	ルーバー糸ガイド	LOOPER THREAD GUIDE	1
04-21	79-621	スプ・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	87-075	ネジ	SCREW	2
04-26	87-157	ネジ	SCREW	2
04-27	87-096	ネジ	SCREW	3
04-28	87-104	ネジ	SCREW	8
04-29	87-106	ネジ	SCREW	1
04-30	87-128	ネジ	SCREW	2
04-31	87-129	六角穴付きボルト	BOLT	2
04-32	87-166	ネジ	SCREW	3
04-33	87-177	六角穴付きボルト	BOLT	1
04-34	87-212	ネジ	SCREW	2
04-35	87-603	ネジ	SCREW	1
04-36	98-624	ルーバー糸ガイドワイヤー	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	ワッシャー	WASHER	1

5. ブッシュ機構 BUSHING



REF. NO.	PART NO.	品 名	DESCRIPTION	QTY
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	75-452	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	針棒ブッシュ (下)	BUSHING	1
05-12	81-629	ブッシュ	BUSHING	1
05-13	81-633	ルーバ - 軸ブッシュ (前)	BUSHING	1
05-14	81-634	ブッシュ	BUSHING	1
05-15	81-635	ルーバ - 軸ブッシュ (後)	BUSHING	1
05-16	81-641	押エスライド用ブッシュ	BUSHING	1
05-17	81-642	押え棒ブッシュ (上)	BUSHING	1
05-18	81-656	上メス台ブッシュ	BUSHING	1
05-19	81-646	針棒ブッシュ (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

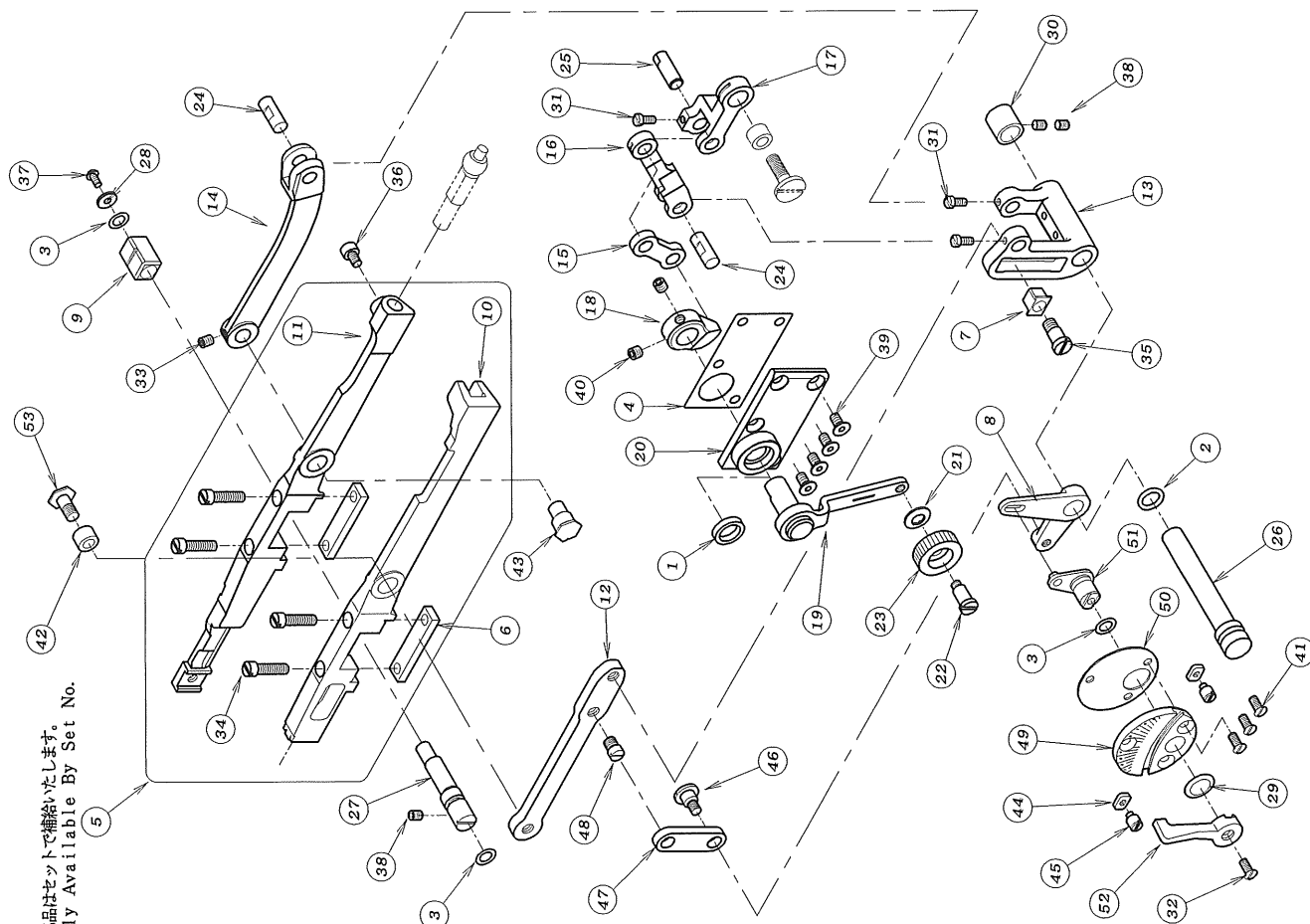
6. 針棒上軸機構 NEEDLE BAR MECHANISM



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-RING	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	ベアリング・フレンジ・セット	BEARING ASS'Y	1
06-07	23-623	フェルト	FELT	1
06-08	31-649	ポンプ・駆動ギヤ	PUMP DRIVING GEAR	1
06-09	49-604	上軸調節器	TOP COVER THREAD TAKE-UP	1
06-10	49-605	下軸調節器	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	ニードル・レバー	NEEDLE LEVER	1
06-14	69-623	ベアリング・フレンジ	FLANGE	1
06-15	69-625	プーリー	PULLEY	1
06-16	71-432	メカ・ネビ	FEED ROCKER LINK PIN	2
06-17	71-850	ロビ	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	ワッシャー	WASHER	1
06-21	75-607	ジョイントカラー	JOINT	1
06-22	75-608	カラー	COLLAR	1
06-23	75-609	カラー	COLLAR	2
06-24	75-619	カラー	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	ベアリング	BEARING	1
06-41	93-202	E-RING	E-RING	1
06-42	98-547	針棒コネクタロッド・ピン	NEEDLE LEVER CONNECTING ROD PIN	1
06-43	69-624	ベアリング・スリーブ	SLEEVE	1
06-44	91-994	ボールベアリング	BEARING	1
06-45	60-6010	ベアリング・セット	BEARING ASS'Y	1

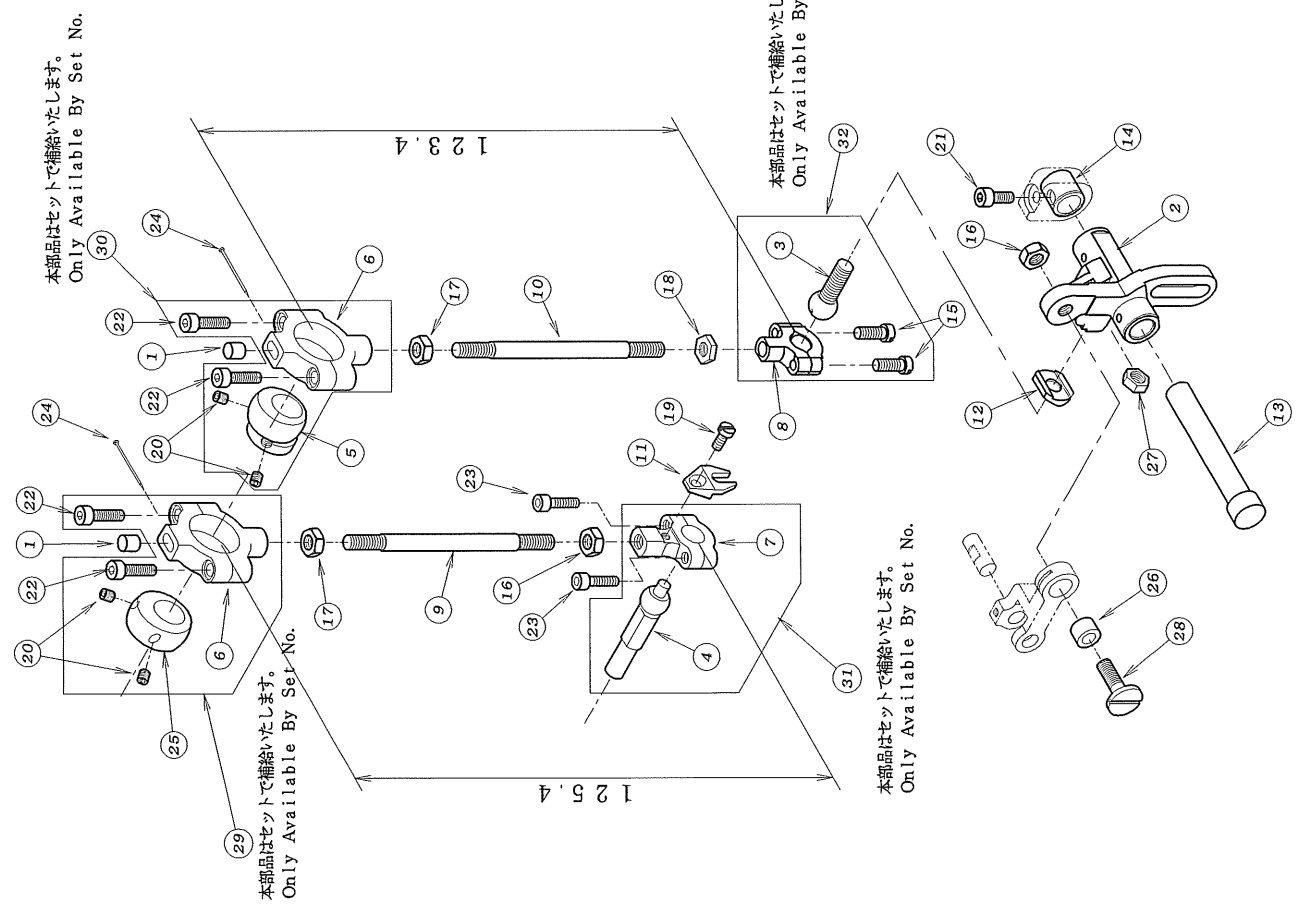
7. 送り機構 (1) FEED MECHANISM (1)

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REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
07-01	194-102	オイルシール	OIL SEAL	1
07-02	23-537	リング	O-RING	1
07-03	23-615	リング	O RING	3
07-04	23-631	レバ - 軸カハ - ハ° ヅキン	GASKET	1
07-05	50-6000	送り土台組	FEED BAR ASS'Y	1
07-06	51-611	送りレバ - ハ° レート	FEED BAR PLATE	2
07-07	51-613	角コマ	SLIDE BLOCK	1
07-08	51-615	差動レバ -	DIFFERENTIAL FEED ADJUSTING LEVER	1
07-09	51-617	送り角コマ	FEED BAR SLIDE BLOCK	1
07-10	51-619	差動送りレバ -	DIFFERENTIAL FEED BAR	1
07-11	51-621	主送りレバ -	MAIN FEED BAR	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	51-625	主送りドライブリンク	MAIN FEED BAR DRIVE LINK	1
07-15	51-627	調整リンク	LINK	1
07-16	51-628	フィードロッカー - ドライブリンク	FEED ROCKER DRIVING LINK	1
07-17	51-630	フィードロッカーリンク	FEED ROCKER LINK	1
07-18	51-631	送り調整レバ -	FEED ADJUSTING LEVER	1
07-19	51-632	送り調整レバ - 軸	FEED ADJUSTING LEVER SHAFT	1
07-20	51-633	送り調整レバ - 軸カハ -	FEED ADJUSTING SHAFT COVER	1
07-21	51-806	皿ハネ	SPRING	1
07-22	51-807	段ネジ	SCREW	1
07-23	51-808	ナット	NUT	1
07-24	71-663	リンクピン	LINK PIN	2
07-25	71-863	リンクピン	LINK PIN	1
07-26	71-864	フィードロッカーシャフト	FEED ROCKER SHAFT	1
07-27	71-940	送りレバ - エキセンピン	FEED BAR ECCENTRIC PIN	1
07-28	75-227	ワッシャ	WASHER	1
07-29	79-603	皿ハネ	SPRING	1
07-30	81-616	ブッシュ	BUSHING	1
07-31	84-164	ネジ	SCREW	3
07-32	84-462	ネジ	SCREW	1
07-33	84-521	ネジ	SCREW	1
07-34	84-568	ネジ	SCREW	4
07-35	84-653	ネジ	SCREW	1
07-36	87-092	六角穴付きボルト	BOLT	1
07-37	87-099	ネジ	SCREW	1
07-38	87-181	ネジ	SCREW	3
07-39	87-269	ネジ	SCREW	4
07-40	87-274	ネジ	SCREW	2
07-41	87-679	ネジ	SCREW	3
07-42	98-573	ブッシュ	BUSHING	1
07-43	98-575	主送りエキセンピン	MAIN FEED BAR ECCENTRIC PIN	1
07-44	98-651	ナット	NUT	2
07-45	98-671	ネジ	SCREW	2
07-46	98-740	ネジ	SCREW	1
07-47	98-741	差動リンク	LINK	1
07-48	98-744	ネジ	SCREW	1
07-49	98-745	差動目盛り板	ADJUSTING PLATE	1
07-50	98-746	ハ° ヅキン	GASKET	1
07-51	98-748	差動レバ - (B)	DIFFERENTIAL FEED ADJUSTING LEVER	1
07-52	98-749	差動アーム	OPERATING LEVER	1
07-53	98-880	ネジ	SCREW	1

8. 送り機構 (2) FEED MECHANISM (2)

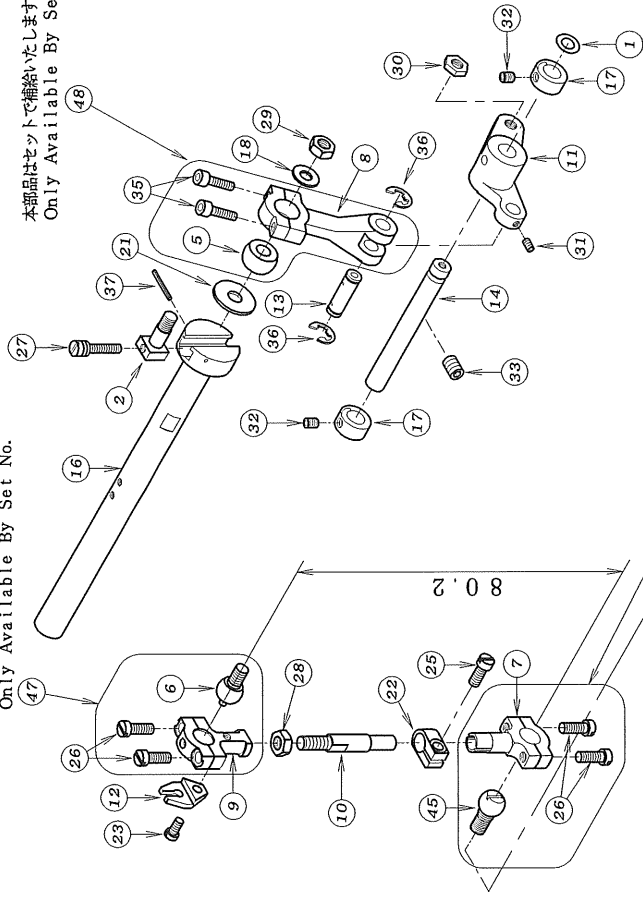


REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
08-01	23-616	フェルト	FELT	2
08-02	51-629	フイード' ロッカー	FEED ROCKER	1
08-03	61-607	連結ロッド' 玉	CONNECTING ROD BALL	1
08-04	61-612	ロッド' 玉	BALL JOINT	1
08-05	61-614	送り前後エキセン	ECCENTRIC	1
08-06	63-609	エキセン' ロット	ECCENTRIC ROT	2
08-07	63-612	連結ロッド	CONNECTING ROT	1
08-08	63-615	連結ロッド	CONNECTING ROT	1
08-09	65-601	連結棒	CONNECTING ROD	1
08-10	65-604	連結棒	CONNECTING ROD	1
08-11	69-616	ロッド' 振れ止め	GUIDE	1
08-12	69-617	振れ止め	STEADY WASHER	1
08-13	71-865	送りレバ' - シャフト	FEED LEVER SHAFT	1
08-14	81-616	ブ' ッシュ	BUSHING	1
08-15	84-635	ネジ	SCREW	2
08-16	86-411	ナット	NUT	2
08-17	86-412	ナット	NUT	2
08-18	86-413	ナット	NUT	1
08-19	87-010	ネジ	SCREW	1
08-20	87-106	ネジ	SCREW	4
08-21	87-113	六角穴付きボルト	BOLT	1
08-22	87-299	六角穴付きボルト	BOLT	4
08-23	87-315	ネジ	SCREW	2
08-24	93-625	フェルト' ピン	PIN	2
08-25	98-557	送り上下エキセン	ECCENTRIC BALL JOINT	1
08-26	98-573	ブ' ッシュ	BUSHING	1
08-27	98-876	ナット	NUT	1
08-28	98-881	ネジ	SCREW	1
08-29	60-6110	送り上下エキセン' セット	FEED LIFT ECCENTRIC ASS' Y	1
08-30	60-6150	送り前後エキセン' セット	FEED DRIVE ECCENTRIC ASS' Y	1
08-31	60-6130	送り台' コネクト' ロット' 玉' セット	CONNECTING ROT ASS' Y	1
08-32	60-6165	送り台' 連結' ロット' 玉' セット	CONNECTING ROT ASS' Y	1

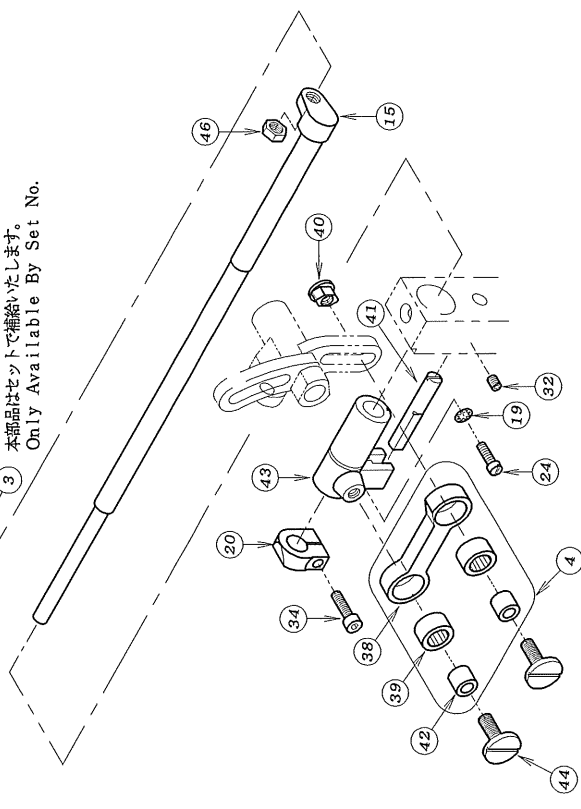
9. ルーパ-機構 LOOPER MECHANISM

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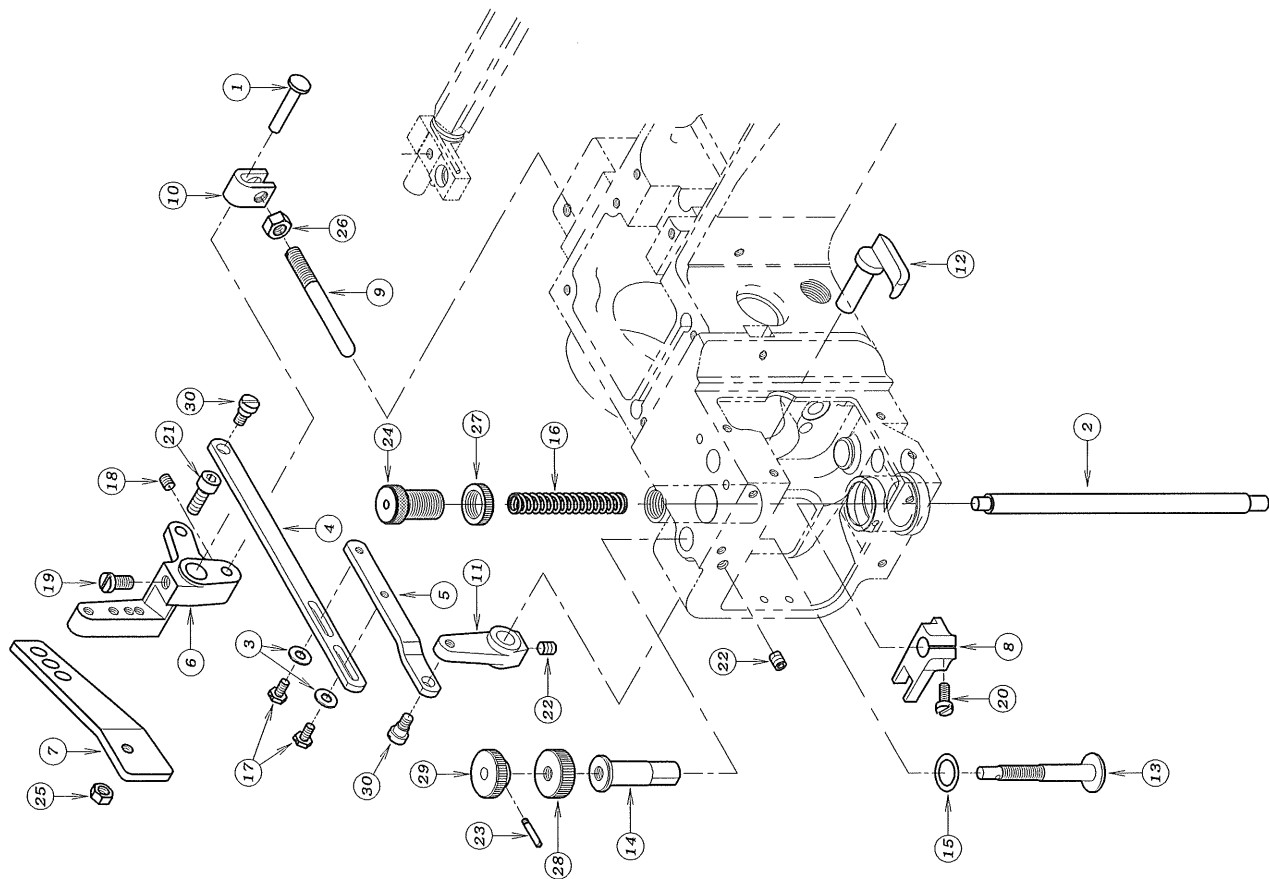
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Only Available By Set No.

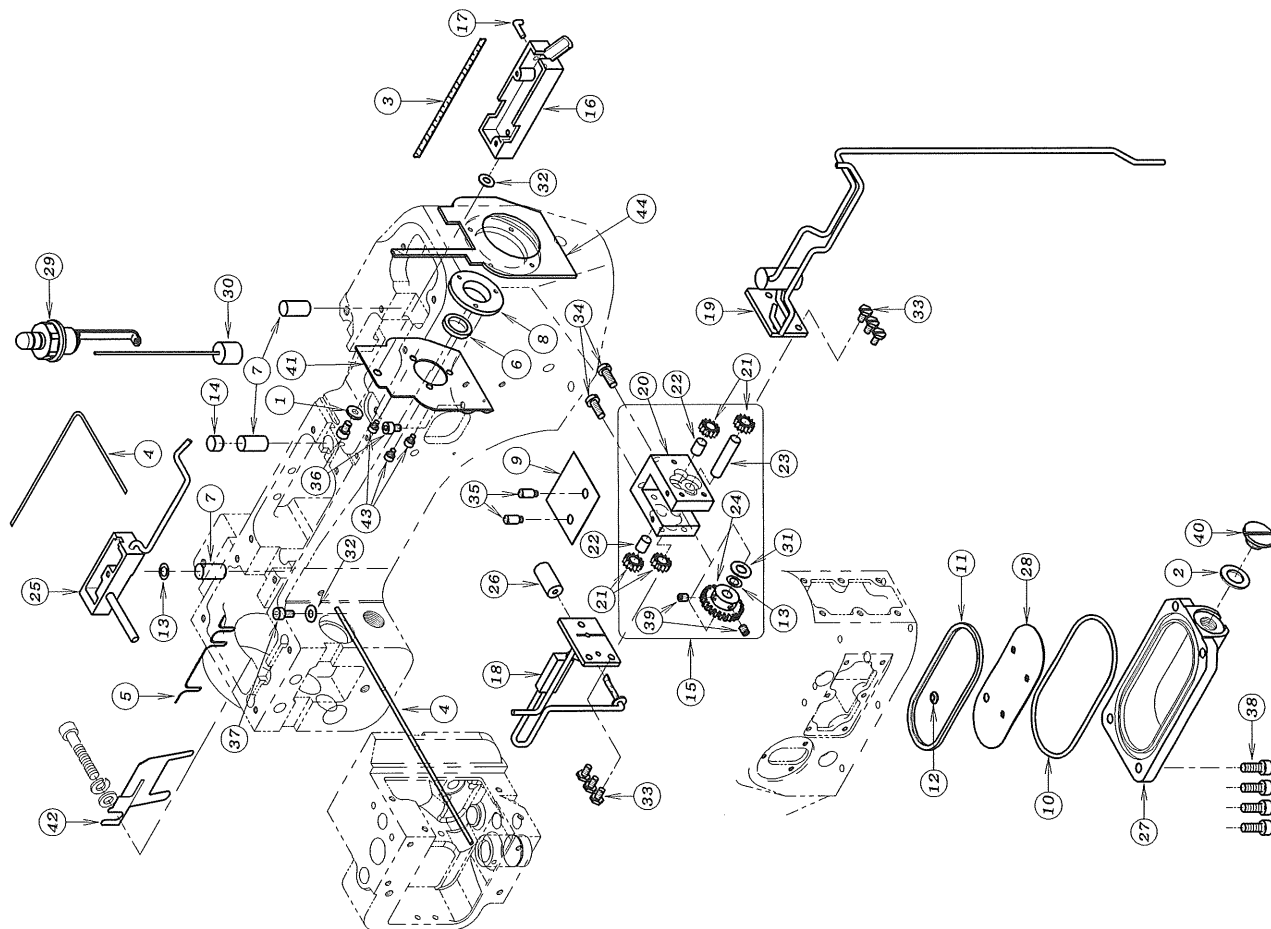
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
09-01	23-183	0-リング	0-RING	1
09-02	51-620	送り調節芯棒	LOOPER DRIVING CRANK PIN	1
09-03	60-6070	ルーパ-連結ロッド玉セット	CONNECTING ROT ASS'Y	1
09-04	60-6080	ルーパ-前後リンクセット	CONNECTING LINK ASS'Y	1
09-05	61-615	ルーパ-振元レバ-ロッド玉	BALL JOINT	1
09-06	61-616	ルーパ-コネクタロッド玉	BALL JOINT	1
09-07	63-607	連結ロッド	CONNECTING ROD	1
09-08	63-625	ルーパ-振り元レバ-	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-振り元レバ-B	LEVER	1
09-12	69-619	小ロッド用振れ止め	STEADY FORK	1
09-13	71-808	連結ピン	PIN	1
09-14	71-813	ルーパ-レバ-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	1
09-33	87-242	ネジ	SCREW	3
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	スプリングピン	SPRING PIN	1
09-38	98-591	連結マガネ	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	ピン	PIN	1
09-42	98-601	ベアリングインナーレース	BEARING SLEEVE	2
09-43	98-604	ルーパ-シャフトスリーブ	LOOPER SHAFT SLEEVE	1
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-振元ロッド玉セット	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	押え棒ガイド	PRESSER BAR GUIDE	1
10-09	77-615	押え揚げレバ - ガイド 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	押え高さ調節ネジ	ADJUSTING SCREW	1
10-14	77-622	押え棒ガイド	PRESSER BAR GUIDE	1
10-15	23-190	Oリング	O RING	1
10-16	79-036	押え棒ネ	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	オリシタ	O RING	1
11-11	23-609	油ろ過網・ッキン	RUBBER SEAL	1
11-12	23-610	コ・ムブ・ッジュ	SEAL	1
11-13	23-615	オリシタ	O RING	2
11-14	25-526	詰め栓	PLUG	1
11-15	30-0300	ボ・ソフ・セツ	PUMP ASS'Y	1
11-16	31-614	オイルリサ・ハ・ - (前)	OIL RECEIVER (FRONT)	1
11-17	31-615	パイプ	PIPE	1
11-18	31-616	ハウジング・カハ・ -	HOUSING COVER	1
11-19	31-617	ハウジング・カハ・ - (前)	HOUSING COVER (FRONT)	1
11-20	31-637	ボ・ソフ・ハウジング・	PUMP HOUSING	1
11-21	31-638	ボ・ソフ・キ・ア	PUMP GEAR	4
11-22	31-639	ボ・ソフ・キ・ヤシヤフト (短)	SHAFT	2
11-23	31-640	ボ・ソフ・キ・ヤシヤフト (長)	SHAFT	1
11-24	31-641	ボ・ソフ・徒動キ・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・ - 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	ボ・ソフ・フ・ラク・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	下糸調整器シール板	SHELD 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	糸調子カム防油フェルト	FELT	1

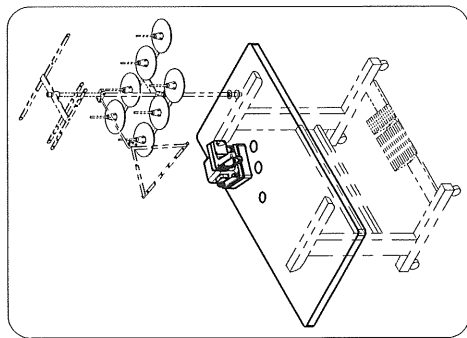
SPREADER DRIVE, UPPER KNIFE MECHANISM



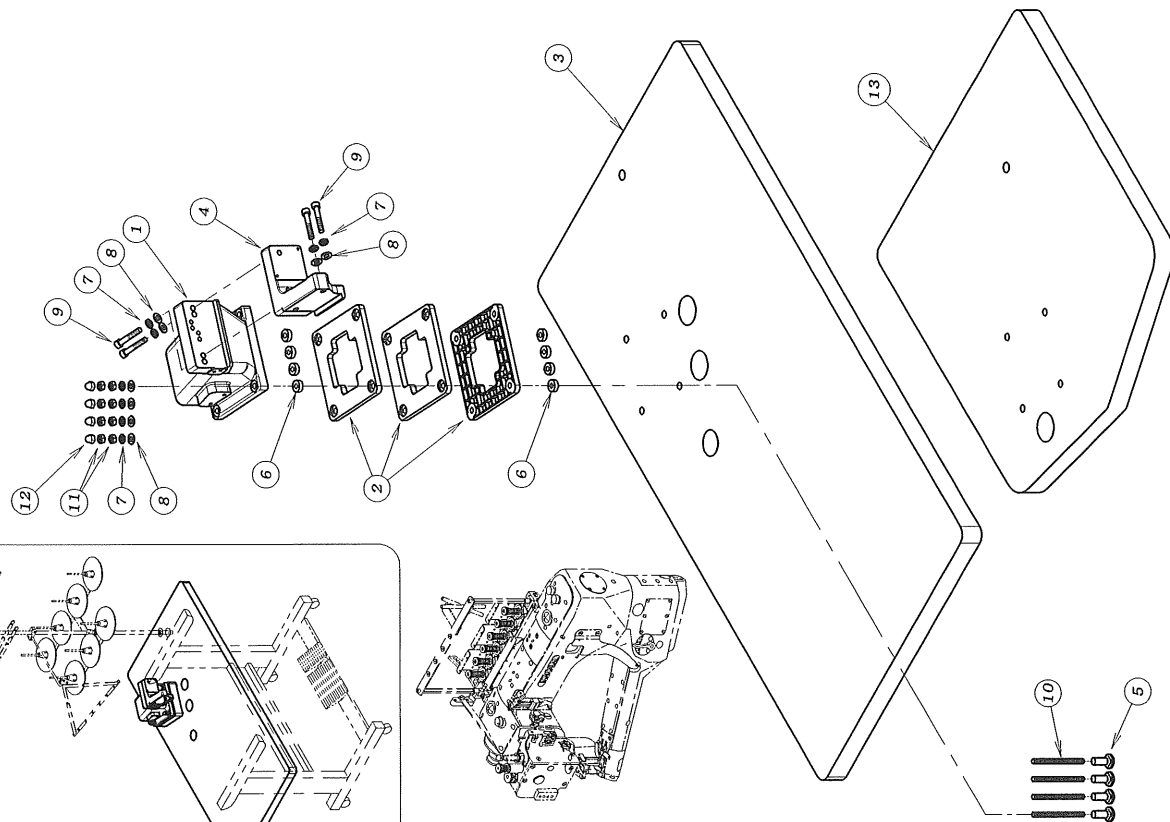
- 12 -

13. テーブル関係 タイプ° (1) TABLE TYPE (1)

SET STYLE



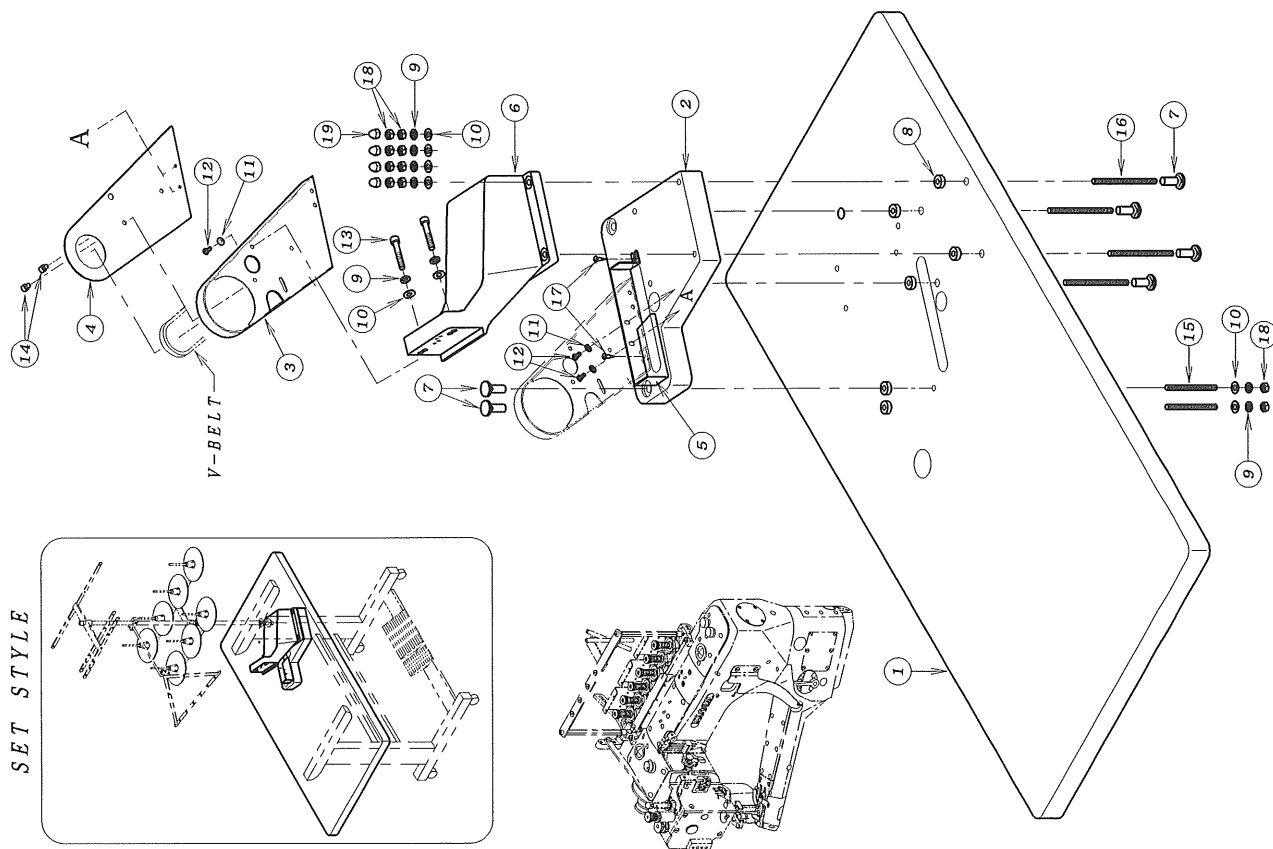
ダイレクトモーターDDタイプ
DIRECT MOTOR DD TYPE



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	27-652	スペーサー	SPACER	3
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	本体据付ナット	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	87-676	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	SX-167	ベ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)

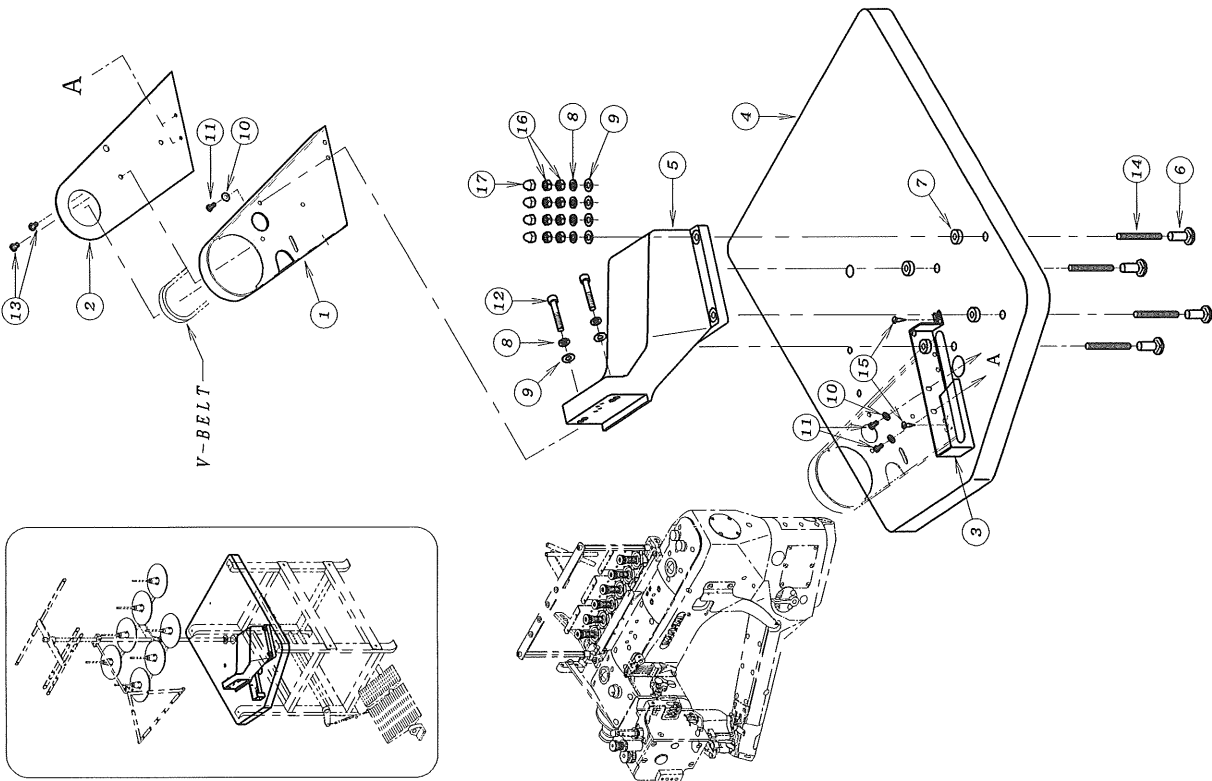
SET STYLE



REF. NO.	PART NO.	品 名	DESCRIPTION	QTY
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	本体取付ナット	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	プライマベ小ねじ	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)

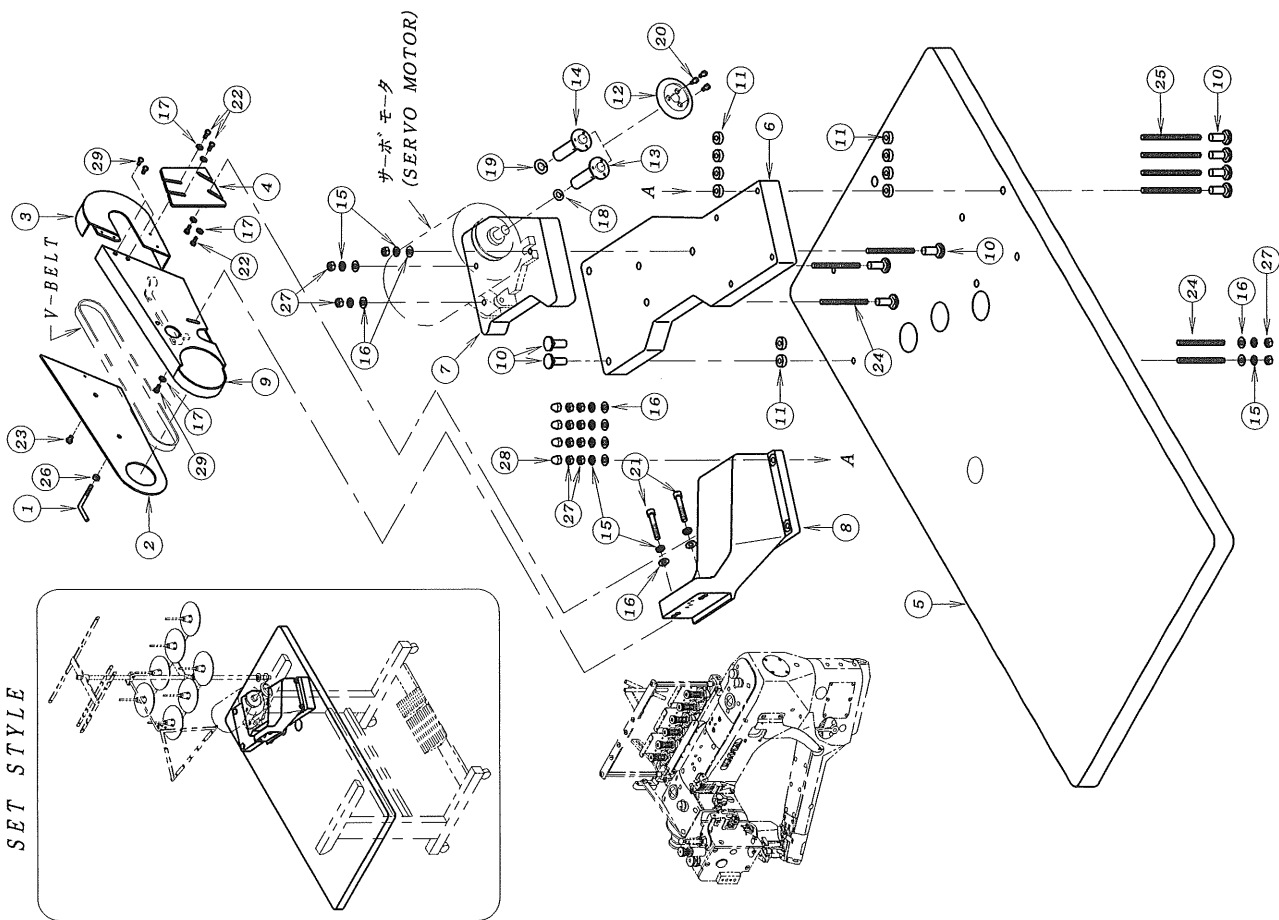
SET STYLE



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	本体据付ナット	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ー	SPRING WASHER	6
15-09	75-451	ワッシャー	WASHER	6
15-10	75-453	ワッシャー	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)

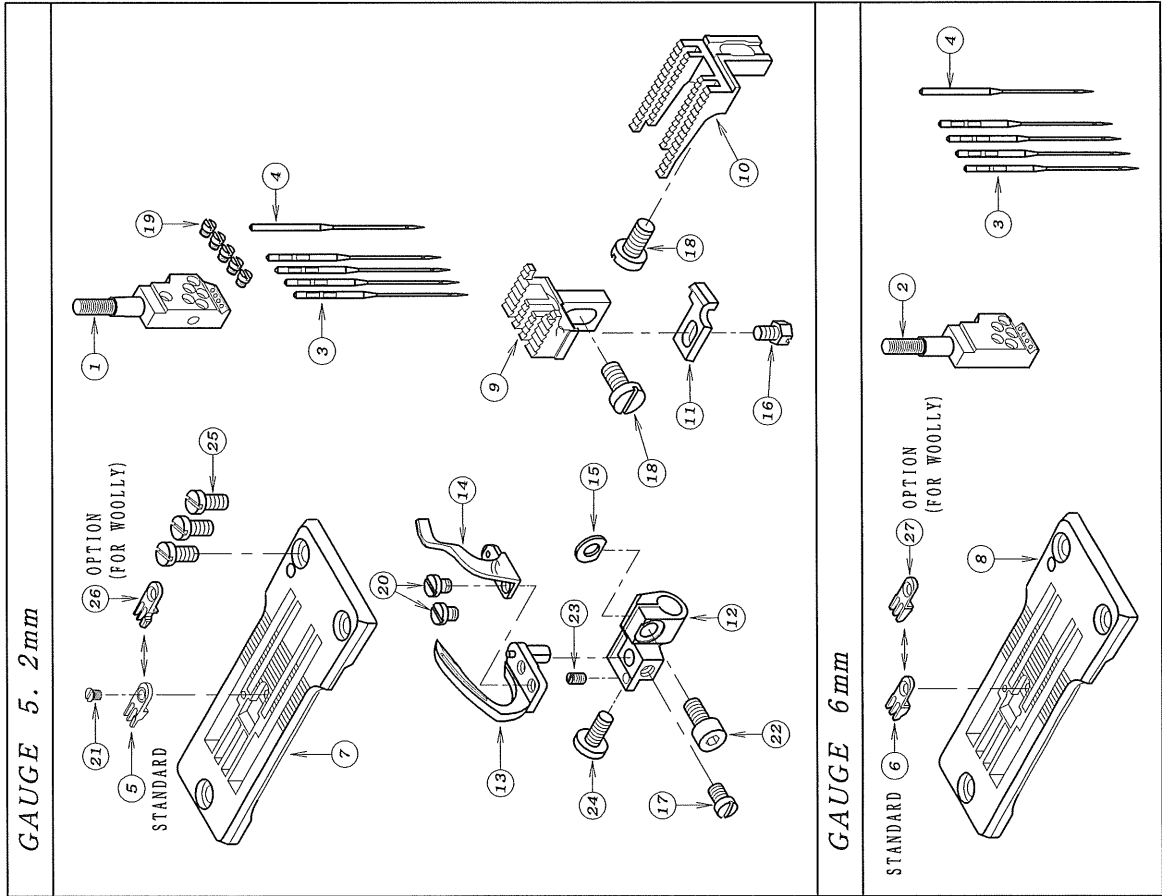
SET STYLE



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	本体据付ナット	NUT	9
16-11	42-513	防塵ゴム	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	プラマイナベ小ねじ	SCREW	4
16-23	87-492	プラマイナベ小ねじ	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	プラマイナベ小ねじ	SCREW	3

17. ゲージ関係 (1) GAUGE PARTS (1)

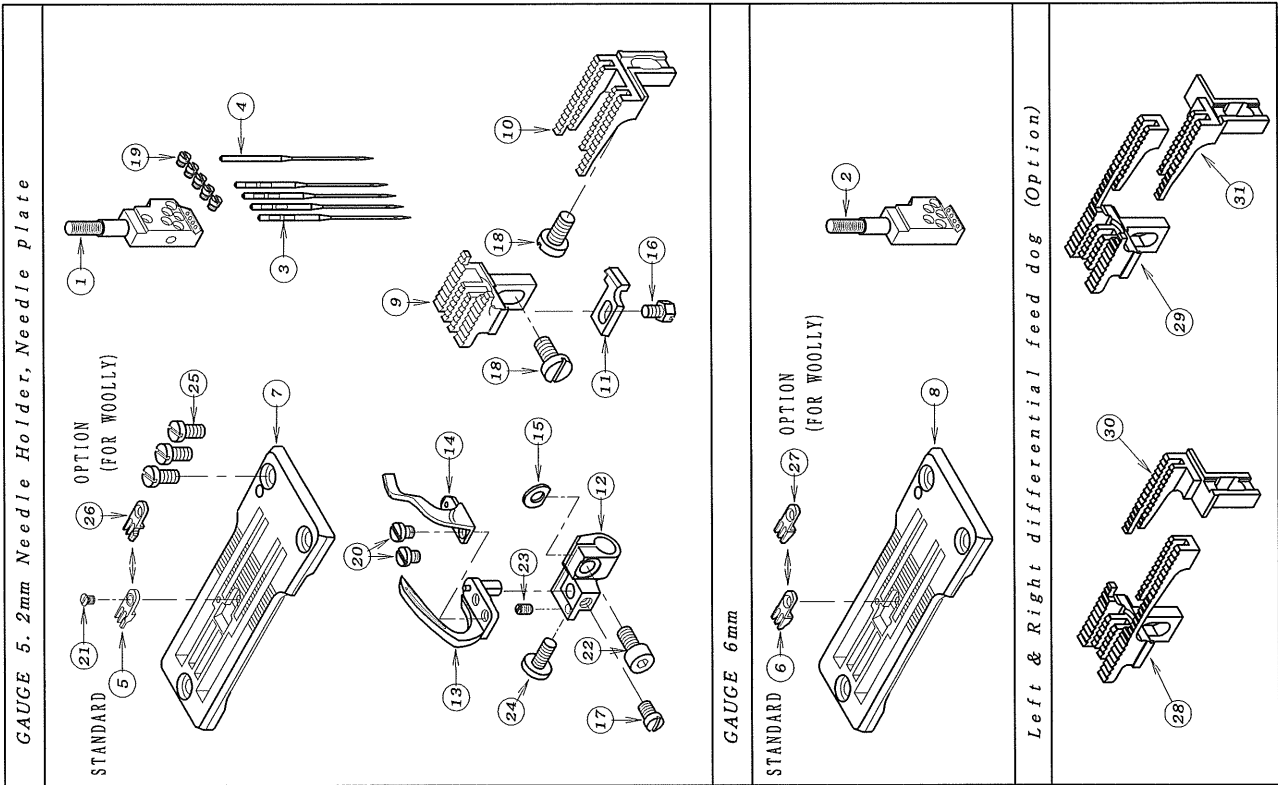
MODEL NFS6604GFS, GFSL



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
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	ルーパー台	LOOPER HOLDER	1
17-13	19-619	ルーパー	LOOPER	1
17-14	19-620	補助ルーパー	NEEDLE GUIDE	1
17-15	75-617	スベラーサ-	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) ケーリー用	NEEDLE PLATE TONGUE	1
17-27	14-605	針板ツマ (6mm) ケーリー用	NEEDLE PLATE TONGUE	1

18. ゲージ関係 (2) GAUGE PARTS (2)

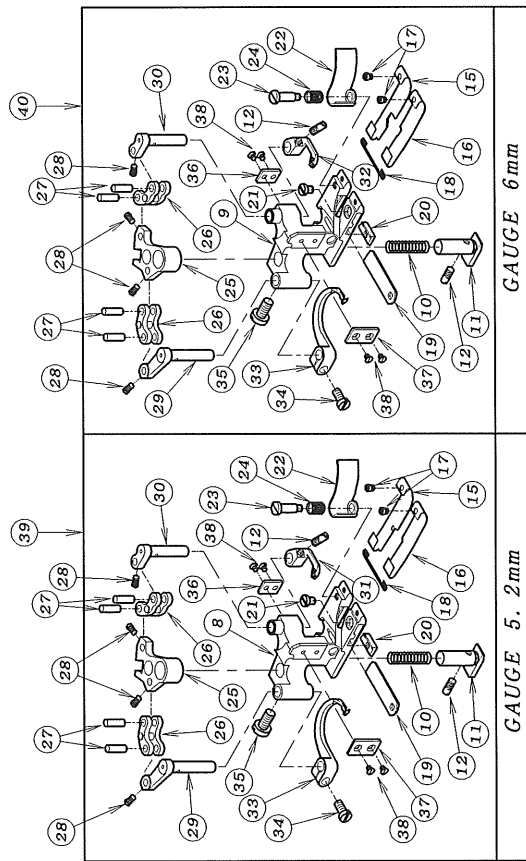
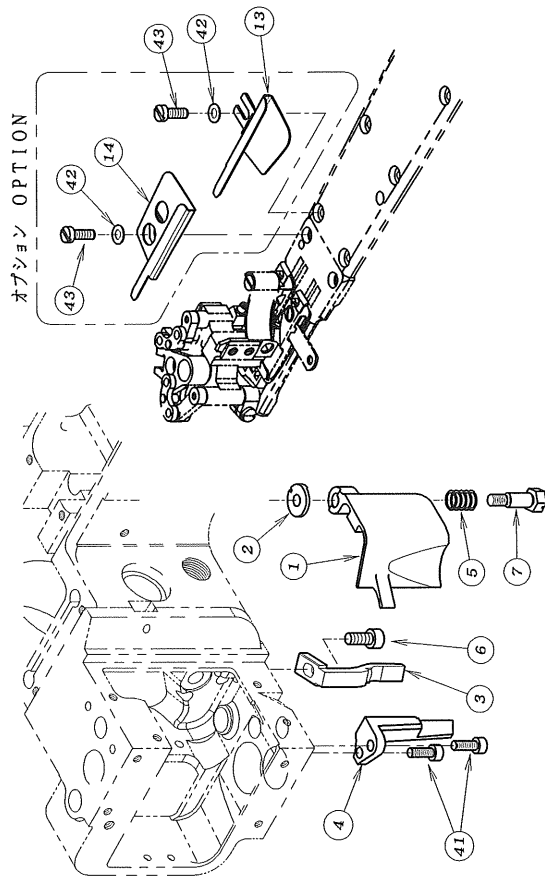
MODEL NFS6604GFLM, GFMH, GFMH-B



REF. NO.	PART NO.	品 名	DESCRIPTION	QTY
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	針板ツマ (5.2mm)	NEEDLE PLATE TONGUE	1
18-06	14-602	針板ツマ (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	スベーサー	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	針板ツマ (5.2mm) クーリー用	NEEDLE PLATE TONGUE	1
18-27	14-605	針板ツマ (6mm) クーリー用	NEEDLE PLATE TONGUE	1
18-28	15-635	主送り歯	MAIN FEED DOG	1
18-29	15-636	差動送り歯	DIFFERENTIAL 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)

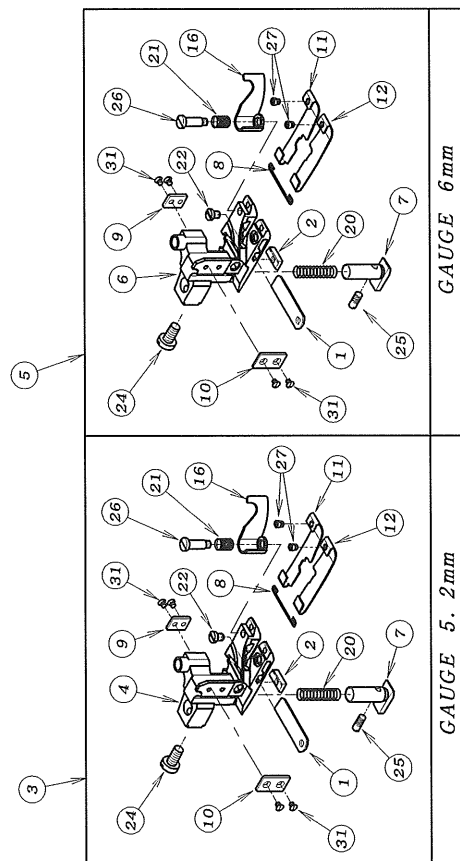
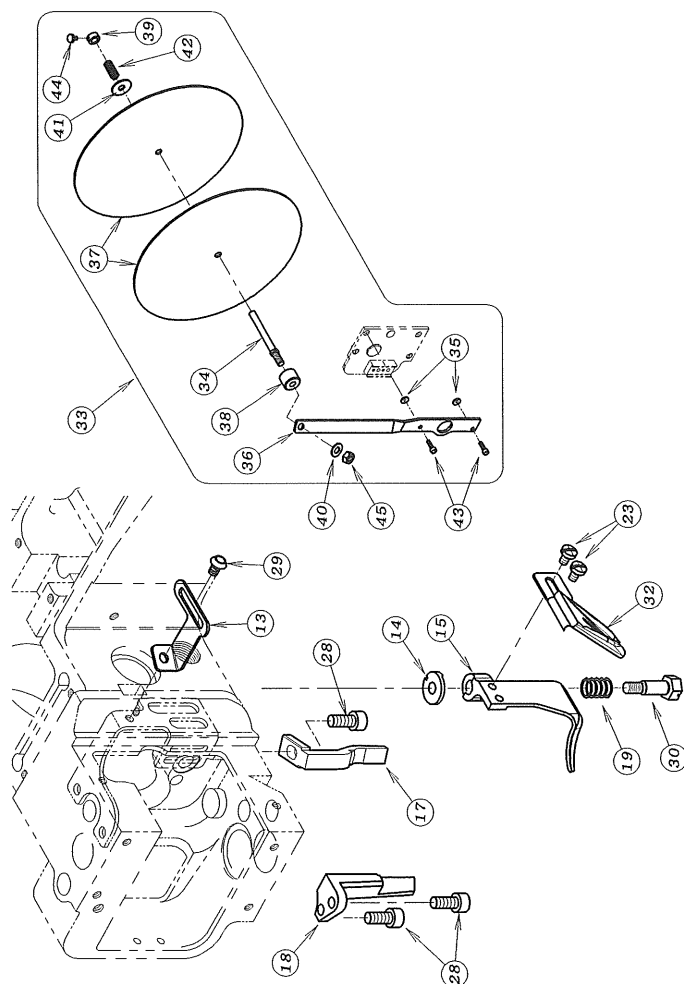
MODEL NFS6604GFS



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	押えカイト (右)	PRESSER FOOT GUIDE	1
19-04	77-626	押えカイト (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	下メス	LOWER KNIFE	1
19-20	07-635	下メス抱き	LOWER KNIFE CLAMP	1
19-21	84-153	下メス抱き止ネジ	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ー-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ー-ピン	PIN	4
19-28	84-648	上飾りドライブレバー-止ネジ	SCREW	4
19-29	04-607	上飾りドライブレバー-A	SPREADER DRIVING LEVER (A)	1
19-30	04-608	上飾りドライブレバー-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	上飾りルバー	SPREADER	1
19-34	84-362	上飾りルバー-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)

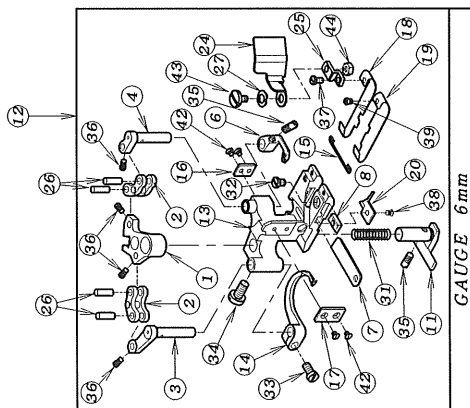
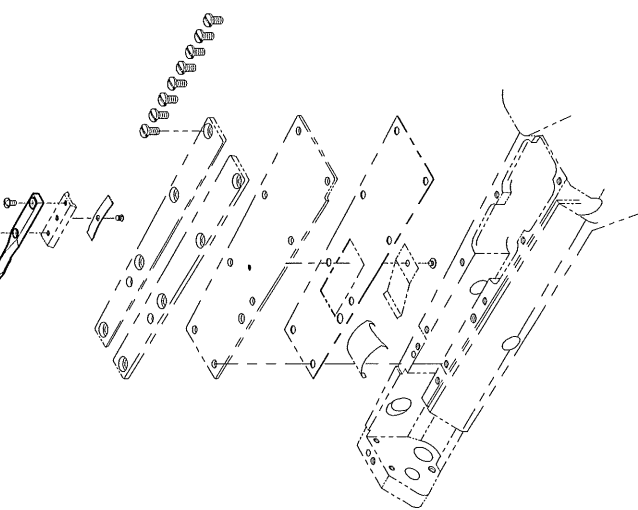
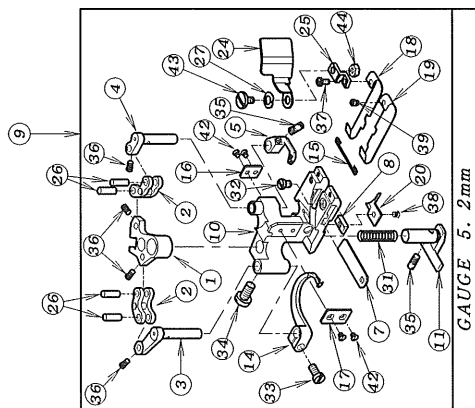
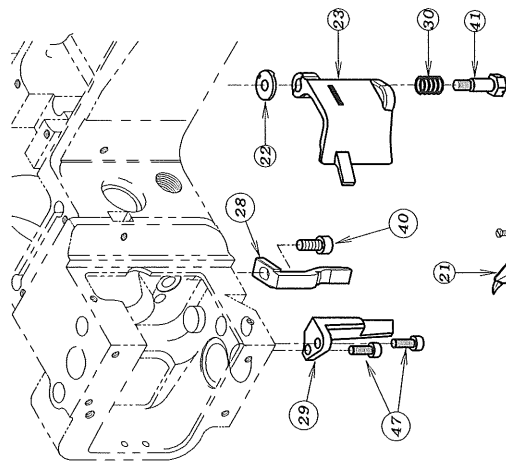
MODEL NFS6604GFSL



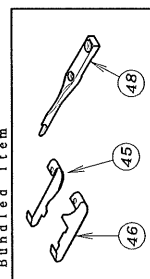
REF. NO.	PART NO.	品 名	DESCRIPTION	QTY
20-01	07-621	下メス	LOWER KNIFE	2
20-02	07-635	下メス砲き	LOWER KNIFE CLAMP	2
20-03	17-6130-1	押えユニットSL-52	PRESSER FOOT ASS'Y SL-52	1
20-04	17-6130-A	押え本体 (5. 2mm)	PRESSER FOOT	1
20-05	17-6140-1	押えユニットSL-60	PRESSER FOOT ASS'Y SL-60	1
20-06	17-6140-A	押え本体 (6mm)	PRESSER FOOT	1
20-07	17-6210-B	補助押エ	AUXILIARY FOOT	2
20-08	26-631	クランプ	HOLDER	2
20-09	26-632	ガイドプレート (右)	GUIDE PLATE	2
20-10	26-633	ガイドプレート (左)	GUIDE PLATE	2
20-11	26-662	押えシューズ (右)	PRESSER FOOT SHOE (RIGHT)	2
20-12	26-663	押えシューズ (左)	PRESSER FOOT SHOE (LEFT)	2
20-13	26-665	テープガイド	TAPE GUIDE	1
20-14	27-613	切屑カバ-取付座金	WASHER	1
20-15	27-649	切屑カバ-ガード	CHIP GUARD	1
20-16	27-657	切屑カバ-	COVER	2
20-17	77-619	押えガイド (右)	PRESSER FOOT GUIDE	1
20-18	77-626	押えガイド (左)	PRESSER FOOT GUIDE	1
20-19	79-619	スプリング	SPRING	1
20-20	79-623	補助押エ圧縮バネ	SPRING	2
20-21	79-624	切屑カバ-用圧縮バネ	SPRING	2
20-22	84-153	ネジ	SCREW	2
20-23	84-361	ネジ	SCREW	2
20-24	84-571	ネジ	SCREW	2
20-25	84-646	ネジ	SCREW	2
20-26	84-647	切屑カバ-セットネジ	SCREW	2
20-27	85-624	ネジ	SCREW	8
20-28	87-252	六角穴付きボルト	BOLT	3
20-29	87-267	ネジ	SCREW	1
20-30	87-602	切屑カバ-取付ネジ	SCREW	1
20-31	87-605	ネジ	SCREW	8
20-32	97-6010-1	ホルダ (9mm)	HOLDER (9mm)	1
20-33	20-6540	テープリールセット	TAPE REEL ASS'Y	1
20-34	26-667	テープリール軸	TAPE REEL SHAFT	1
20-35	23-160	配管油止メニール	SEAL WASHER	2
20-36	26-666	テープリール取付台	TAPE REEL SUPPORT	1
20-37	26-668	テープリール	TAPE REEL	2
20-38	26-669	スペ-スカラ-	SPACER	1
20-39	75-154	カラー	COLLAR	1
20-40	75-451	ワッシャ	WASHER	1
20-41	75-535	ワッシャ	WASHER	1
20-42	79-629	スプリング	SPRING	1
20-43	87-214	六角穴付きボルト	BOLT	2
20-44	87-409	ネジ	SCREW	1
20-45	88-176	ナット	NUT	1

21. 押え機構 (3) PRESSER FOOT UNIT (3)

MODEL NFS6604GFLM



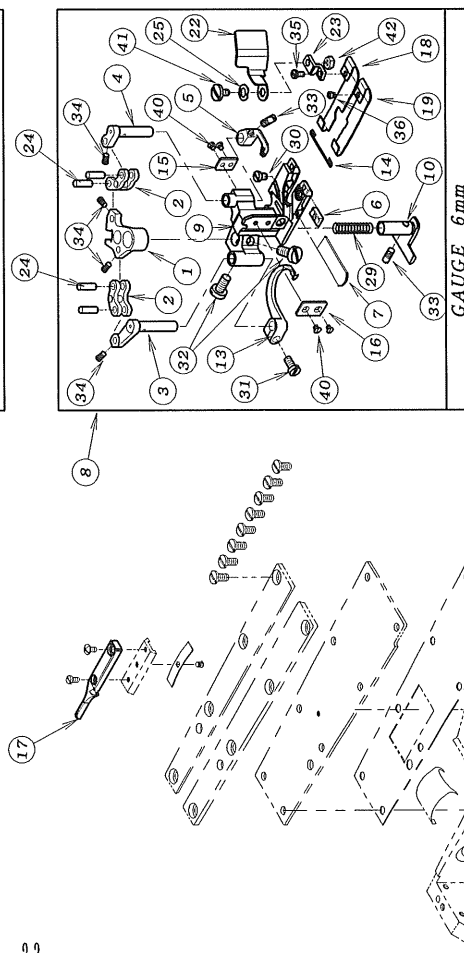
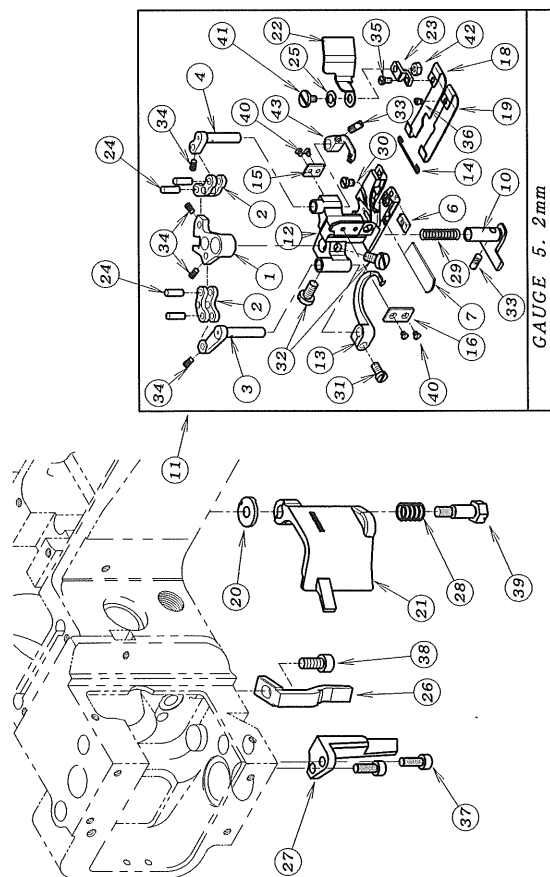
同梱品
Bundled item



REF. NO.	PART NO.	品 名	DESCRIPTION	QTY
21-01	04-605	上飾りドライブレバー-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ー-A	SPREADER DRIVING LEVER	1
21-04	04-608	上飾りドライブレバー-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	07-621	下メス	LOWER KNIFE	1
21-08	07-633	下メス抱き	LOWER KNIFE CLAMP	1
21-09	17-6230-1	押えユニットLM-52	PRESSER FOOT ASS'Y LM-52	1
21-10	17-6230-A	押え本体	FOOT	1
21-11	17-6230-B	補助押え	YIELDING SECTION	1
21-12	17-6240-1	押えユニットLM-60	PRESSER FOOT ASS'Y LM-60	1
21-13	17-6240-A	押え本体	FOOT	1
21-14	19-617	上飾りレバー	SPREADER	1
21-15	26-631	クランプ	HOLDER	1
21-16	26-632	ガイドプレート(右)	GUIDE PLATE	1
21-17	26-633	ガイドプレート(左)	GUIDE PLATE	1
21-18	26-640	押えシューズ(右)	PRESSER FOOT SHOE (RIGHT)	1
21-19	26-641	押えシューズ(左)	PRESSER FOOT SHOE	1
21-20	26-658	布ガイド	CLOTH GUIDE	1
21-21	26-650	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ー-B	PIN	4
21-27	75-618	波座金	WASHER	1
21-28	77-619	押えガイド(右)	PRESSER FOOT GUIDE	1
21-29	77-626	押えガイド(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	84-153	ネジ	SCREW	1
21-33	84-362	ネジ	SCREW	1
21-34	84-571	ネジ	SCREW	1
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	4
21-43	87-613	切屑カバ-取付ネジ	SCREW	1
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	26-637	布ガイド(両切り)	LAP FORMER	1

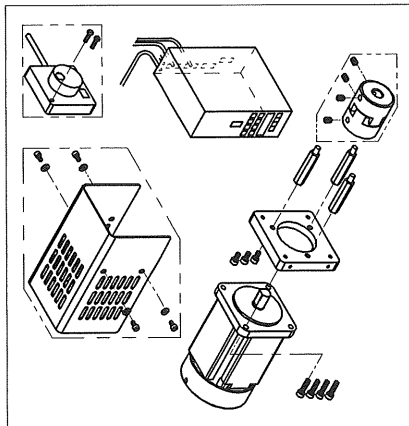
23. 押え機構 (5) PRESSER FOOT UNIT (5)

MODEL NFS6604GFMH-B

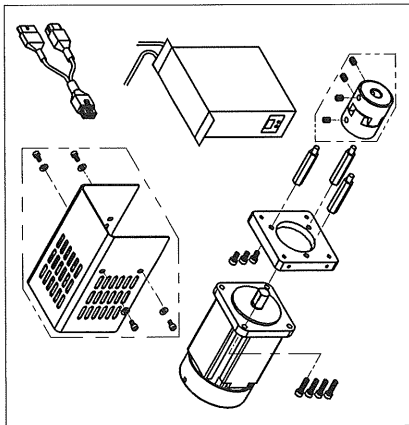


REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
23-01	04-605	上飾りドライブレバー-C	LEVER	1
23-02	04-606	上飾り差動リンク	LINK	2
23-03	04-607	上飾りドライブレバー-A	SPREADER DRIVING LEVER	1
23-04	04-608	上飾りドライブレバー-B	SPREADER DRIVING LEVER	1
23-05	04-613	キャリアー	CARRIER	1
23-06	07-633	下メス抱き	LOWER KNIFE CLAMP	1
23-07	07-634	下メス	LOWER KNIFE	1
23-08	17-6110-1	押えユニット (60)	PRESSER FOOT ASS'Y (60)	1
23-09	17-6110-A	押え本体	FOOT	1
23-10	17-6110-B	補助押え	YIELDING SECTION	1
23-11	17-6120-1	押えユニット (52)	PRESSER FOOT ASS'Y (52)	1
23-12	17-6120-A	押え本体	FOOT	1
23-13	19-617	上飾りレバーハ-	SPREADER	1
23-14	26-631	クランプ	HOLDER	1
23-15	26-632	ガイド* プレート (右)	GUIDE PLATE	1
23-16	26-633	ガイド* プレート (左)	GUIDE PLATE	1
23-17	26-659	布ガイド	LAP FORMER	1
23-18	26-660	押えシューズ (右)	PRESSER FOOT SHOE (RIGHT)	1
23-19	26-661	押えシューズ (左)	PRESSER FOOT SHOE (LEFT)	1
23-20	27-613	切屑カバー-取付座金	WASHER	1
23-21	27-625	切屑カバー	CHIP GUARD	1
23-22	27-631	切屑カバー	CHIP GUARD	2
23-23	27-632	切屑カバー-取付台	COVER BRACKET	2
23-24	71-807	上飾りドライブレバー-ピン	PIN	8
23-25	75-618	波座金	WASHER	2
23-26	77-619	押えガイド* (右)	PRESSER FOOT GUIDE	1
23-27	77-626	押えガイド (左)	PRESSER FOOT GUIDE	1
23-28	79-619	スプリング	SPRING	1
23-29	79-623	補助押え圧縮バネ	SPRING	1
23-30	84-153	ネジ	SCREW	1
23-31	84-362	ネジ	SCREW	1
23-32	84-571	ネジ	SCREW	2
23-33	84-646	ネジ	SCREW	2
23-34	84-648	ネジ	SCREW	4
23-35	85-102	ネジ	SCREW	1
23-36	85-624	ネジ	SCREW	2
23-37	87-129	六角穴付きボルト	BOLT	2
23-38	87-252	六角穴付きボルト	BOLT	1
23-39	87-602	切屑カバー-取付ネジ	SCREW	1
23-40	87-605	ネジ	SCREW	4
23-41	87-613	切屑カバー-取付ネジ	SCREW	1
23-42	88-137	ナット	NUT	1
23-43	04-609	キャリアー	CARRIER	1

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

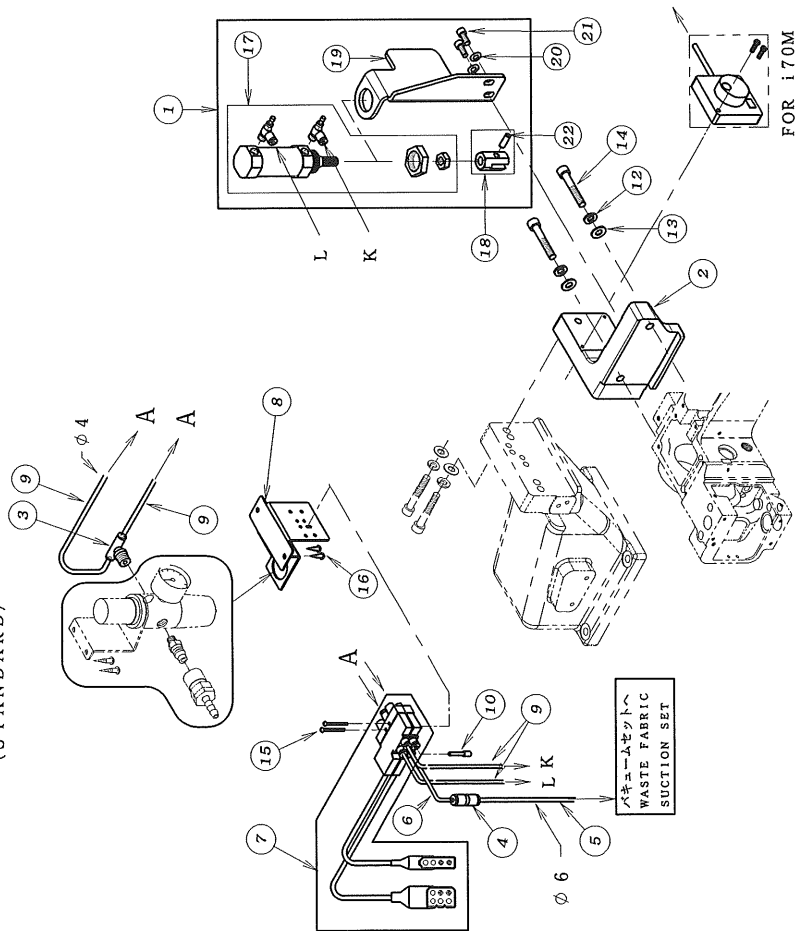


11 i 70M-4-FX-220
(STANDARD)

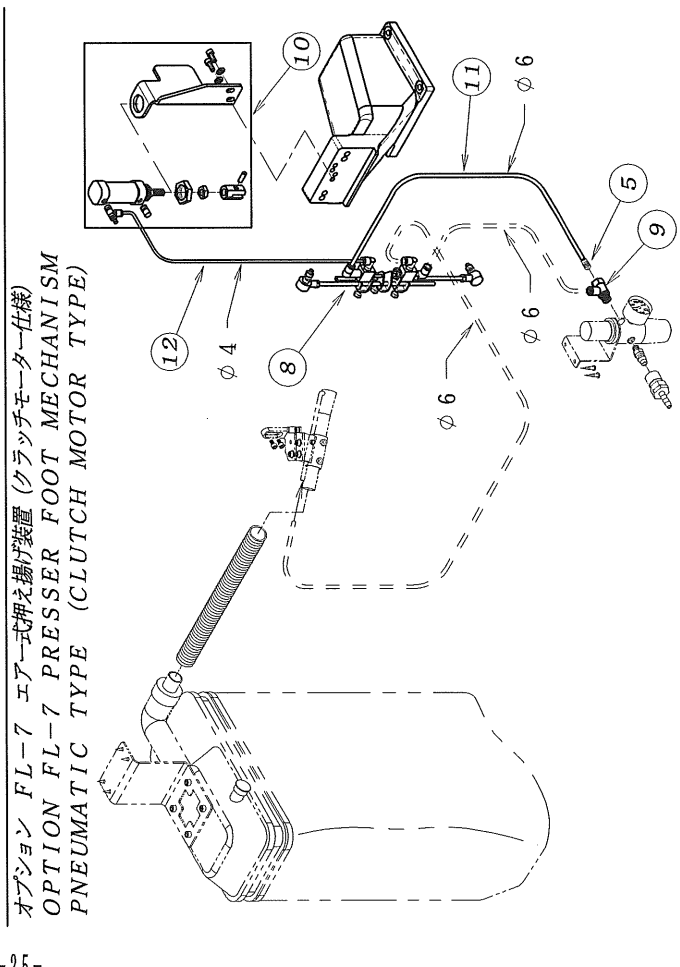
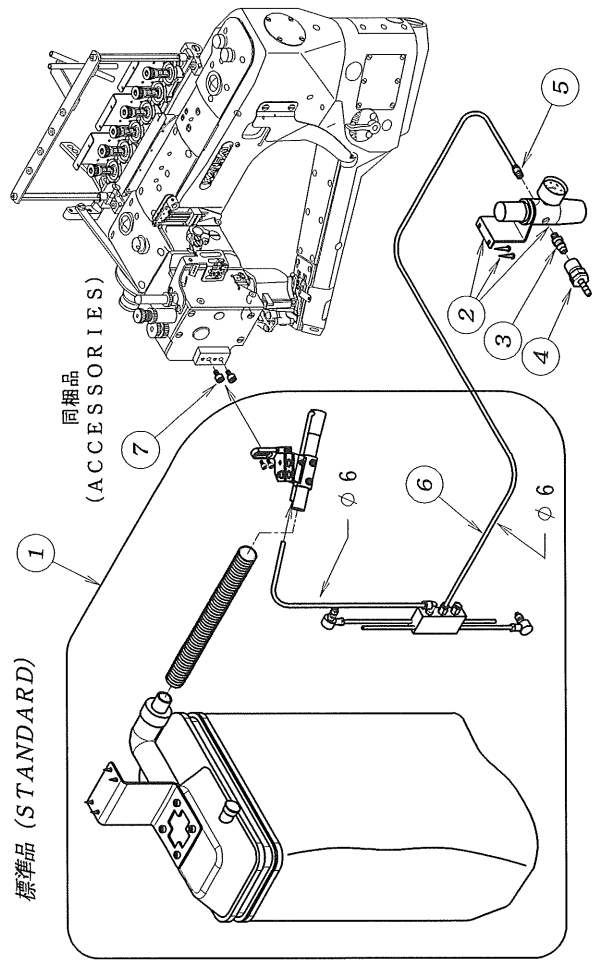


23 GD50-4-NF-220

REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
24-01100-6410	押え掛けシリンダ' - フ' ラケットセット	AIR CYLINDER BRACKET ASS' Y	1	
24-0227-635	ブラケット	BRACKET	1	
24-03105-215	両口チー'ス' ユニオン	JOINT	1	
24-04105-224	異径ストレート	JOINT	1	
24-05105-486	チューブ' φ6X1000mm	TUBE	1	
24-06105-490	チューブ' φ4X50mm	TUBE	1	
24-07105-643	電磁弁2連セット	SOLENOID VALVE ASS' Y	1	
24-08105-644	電磁弁ブラケット	BRACKET	1	
24-09105-917	チューブ' φ4X1500mm	TUBE	4	
24-10106-597	プラグ	PLUG	1	
24-11150-6010	ダイレクタモーター-セット	DIRECT MOTOR ASS' Y	1	
24-12175-225	スプ' リンダ' ワッシャ	WASHER	2	
24-13175-451	ワッシャ	WASHER	2	
24-14187-226	六角穴付きボルト	BOLT	2	
24-15187-475	フ' ラマイナ' 小ねじ	SCREW	2	
24-16187-902	木ねじ	SCREW	2	
24-17100-6082	押えフ' - ラー- 掛けシリンダ' - セット	AIR CYLINDER ASS' Y	1	
24-18105-642	押え掛けレバ' - 作動金具	CHIP	1	
24-19105-641	押え掛けシリンダ' - フ' ラケット	BRACKET	1	
24-20175-452	ワッシャ	WASHER	2	
24-21187-171	六角穴付きボルト	BOLT	2	
24-22193-627	スプリングピン	SPRING PIN	1	
24-23159-047	ダイレクタモーター-セット	DIRECT MOTOR ASS' Y	1	



25. 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

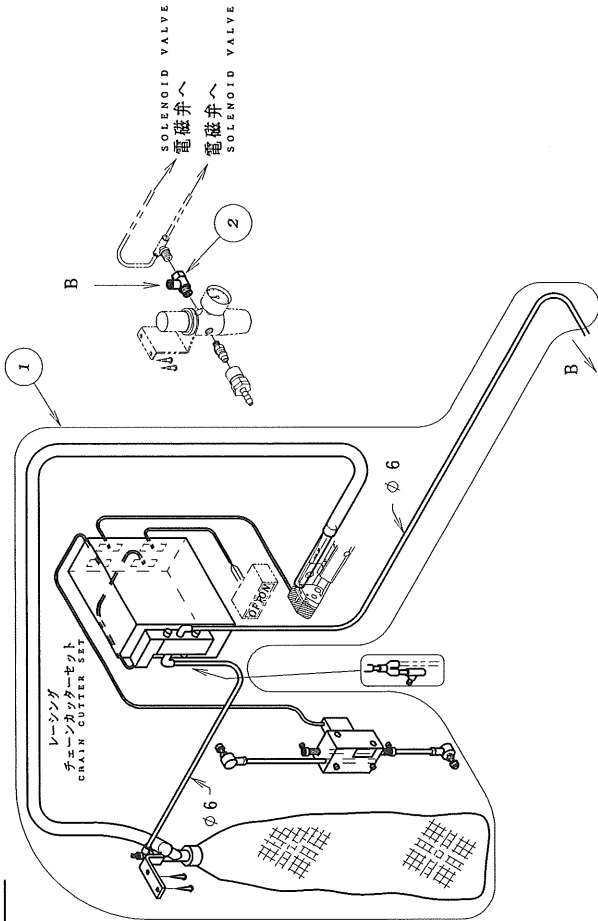


REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
25-01100-6605		バキュームセット	VACUUM SET	1
25-02105-212		フィルタレギュレータ	REGULATOR	1
25-03106-516		カプラマス	CONNECTOR	1
25-04106-517		カプラオス	CONNECTOR	1
25-05105-218		レギュレーター用継手	JOINT	1
25-06105-486		エアチューブφ6X1000mm	AIR TUBE φ6X1000mm	1
25-07187-024		六角穴付きボルト	BOLT	2
25-08100-8040		吸込み押え揚げ用バルブセット	VALVE ASS'Y	1
25-09105-214		ユニバーサルマスエルボ	JOINT	1
25-10100-6420		押え揚げシリンダーセット	AIR CYLINDER ASS'Y	1
25-11105-486		エアチューブφ6X1000mm	AIR TUBE φ6X1000mm	1
25-12105-979		エアチューブφ4X700mm	AIR TUBE φ4X700mm	1

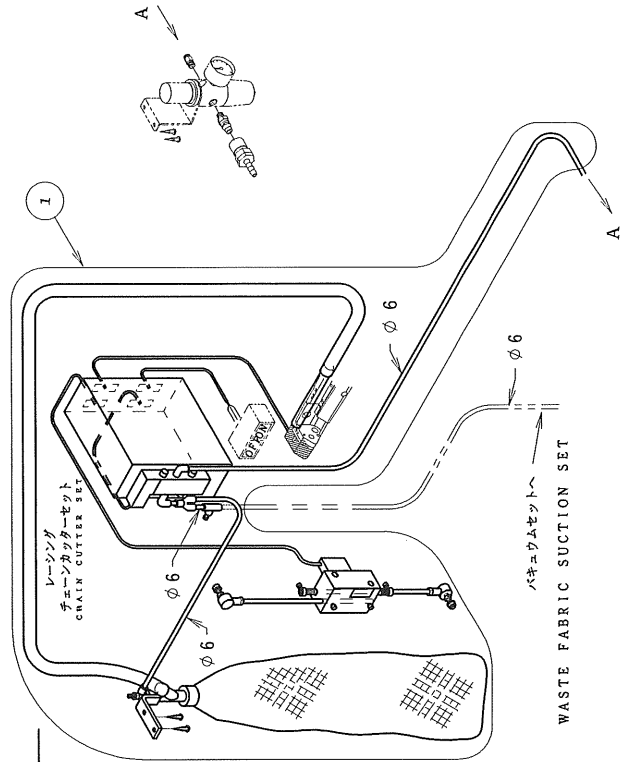
26. 電気式チェーンカッター

ELECTRIC CHAIN CUTTER CS-2

NFS-DD

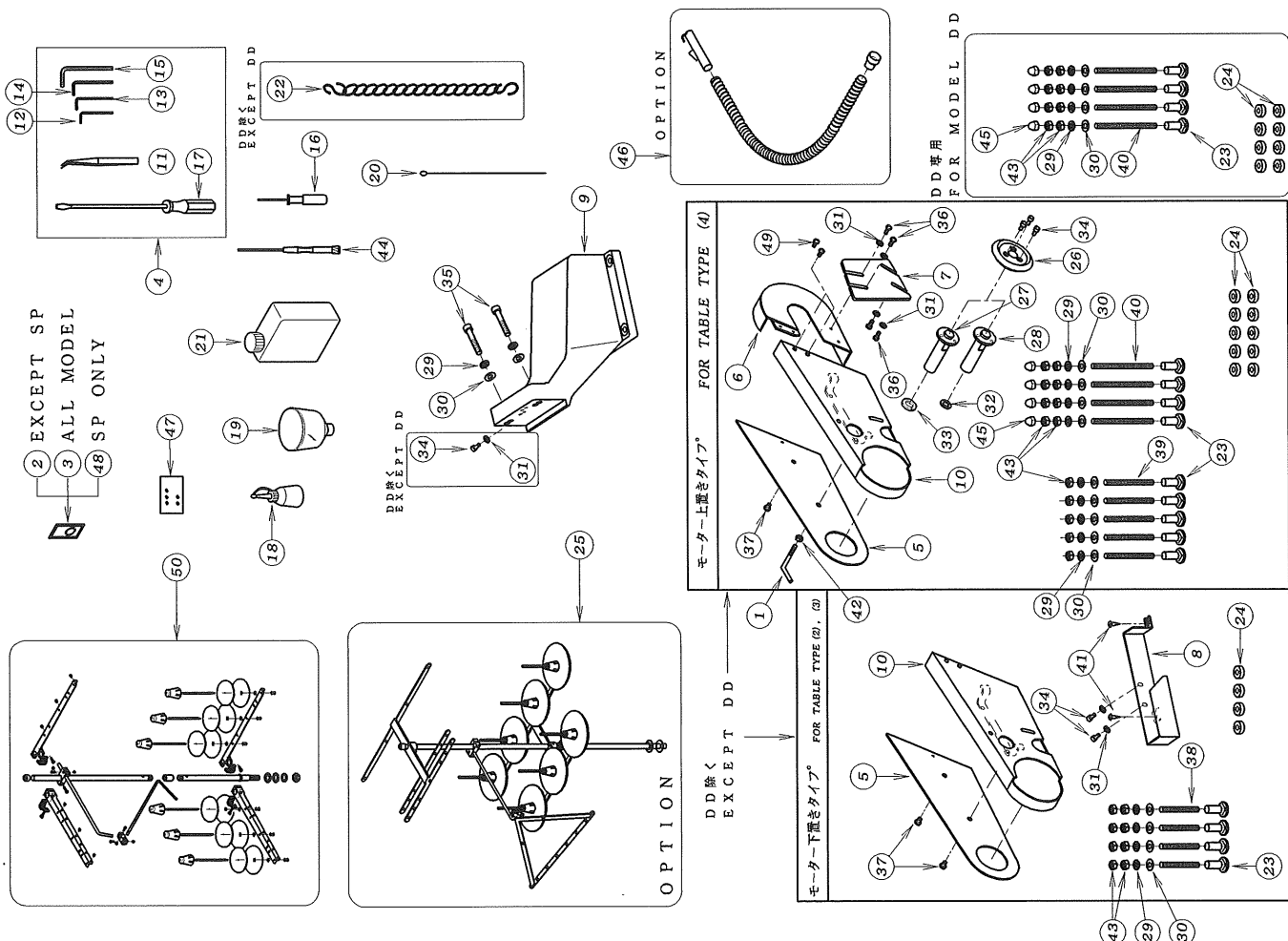


NFS



REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
26-0100-6602		電動式チェーンカッターセット	CHAIN CUTTER SET	1
26-0205-214		ユニバーサルメスエルボ	JOINT	1

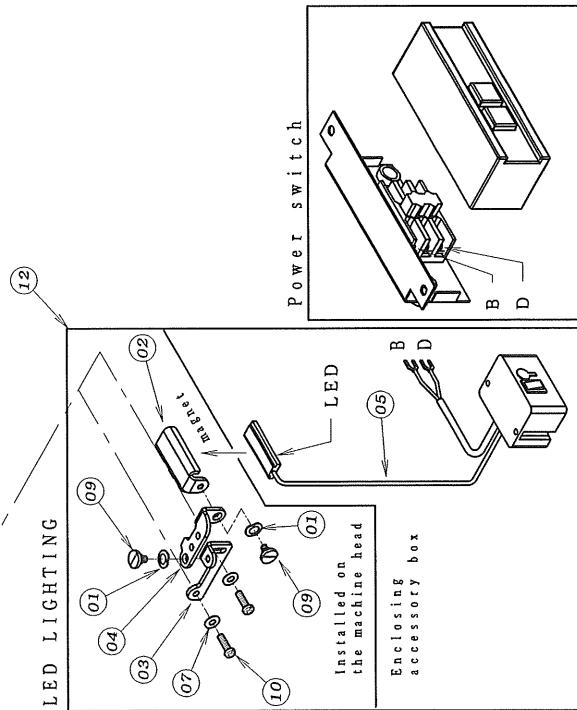
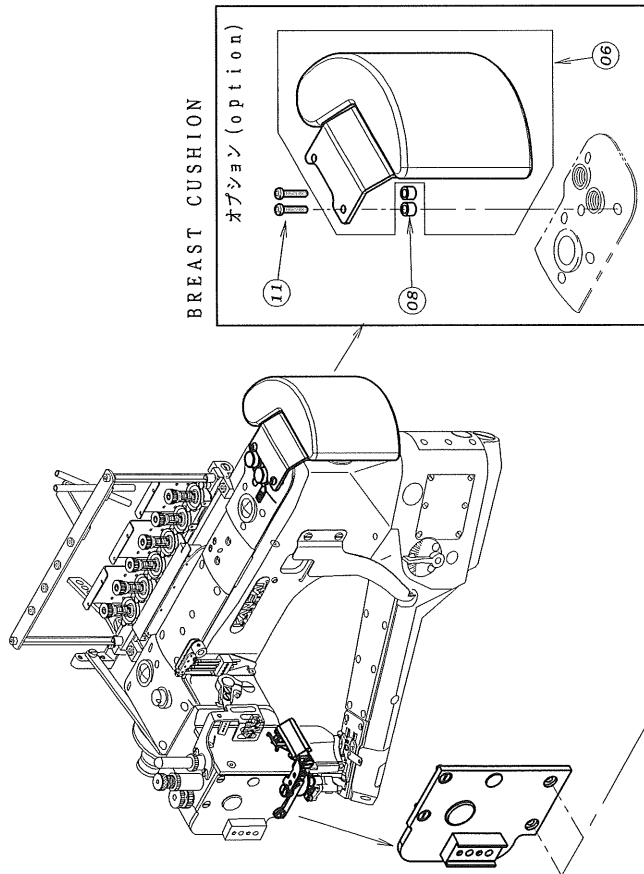
27. 糸立て及びアクセサリ関係 THREAD STAND AND ACCESSORIES



REF. NO.	PART NO.	品名	DESCRIPTION	QTY
27-01	06-634	検出器用止金具	BAR	1
27-02	13-6010-5	針 FLX118GCS #10	NEEDLE	1
27-03	13-6020-6	針 FLG-8	NEEDLE	1
27-04	20-0010	付属部品ケース	ACCESSORIES	1
27-05	21-988	ベルトカバー (B)	BELT COVER (B)	1
27-06	21-989	ベルトカバー (C)	BELT COVER (C)	1
27-07	21-990	ベルトカバー - 取付プレート	PLATE	1
27-08	21-991	ベルト補助カバー	COVER	1
27-09	22-614	マウントベース	MOUNT BASE	1
27-10	27-623	ベルトカバー (A)	BELT COVER (A)	1
27-11	28-011	ピンセット	TWEZERS	1
27-12	28-311	六角レンチ 2mm	ALLEN KEY 2mm	1
27-13	28-312	六角レンチ 2.5mm	ALLEN KEY 2.5mm	1
27-14	28-313	六角レンチ 3mm	ALLEN KEY 3mm	1
27-15	28-314	六角レンチ 5mm	ALLEN KEY 5mm	1
27-16	28-317	クリップ付六角レンチ 1.5mm	ALLEN KEY 1.5mm	1
27-17	28-452	ドライバー (大)	DRIVER (L)	1
27-18	28-614	油差し	OILER	1
27-19	28-615	ショウゴ	OIL FUNNEL	1
27-20	28-616	ガイドスレッド	GUIDE THREAD	1
27-21	28-617	シン潤滑油	OIL	1
27-22	28-920	チェーン	CHAIN	1
27-23	42-503	本体器付ナット	NUT	4~9
27-24	42-513	防振ゴム	CUSHION RUBBER	4~10
27-25	42-707	7本糸立て	THREAD STAND ASSEMBLY	1
27-26	69-613	ハンドホイール	HAND WHEEL	1
27-27	69-614	ハンドホイール取付台	JOINT	1
27-28	69-615	ハンドホイール取付台	JOINT	1
27-29	75-225	スプリングワッシャー	SPRING WASHER	6~11
27-30	75-451	ワッシャー	WASHER	6~11
27-31	75-453	ワッシャー	WASHER	3~5
27-32	75-583	バネ座金	SPRING WASHER	1
27-33	75-584	バネ座金	SPRING WASHER	1
27-34	87-213	六角穴付きボルト	BOLT	1~4
27-35	87-226	六角穴付きボルト	BOLT	2
27-36	87-491	プラマイナベ小ねじ	SCREW	4
27-37	87-492	プラマイナベ小ねじ	SCREW	1~2
27-38	87-673	連結ボルト	BOLT	4
27-39	87-674	連結ボルト	BOLT	5
27-40	87-675	連結ボルト	BOLT	4
27-41	87-901	木ネジ	SCREW	2
27-42	88-166	ナット	NUT	1
27-43	88-176	ナット	NUT	8~13
27-44	28-318	精密マイナストライバ - 2.5mm	SCREWDRIVER	1
27-45	88-183	袋ナット	NUT	4
27-46	00-6604	ストリートバキュームセット	VACUUM SET (L)	1
27-47	85-603	ネジ	SCREW	5
27-48	13-6010-4	針 FLX118GCS #10.5	NEEDLE	1
27-49	87-490	プラマイナベ小ねじ	SCREW	2
27-50	42-010	6本糸立て	THREAD STAND ASSEMBLY	1

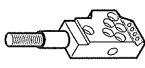
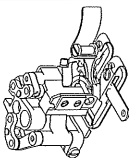
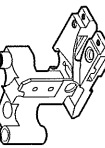
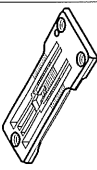
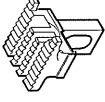
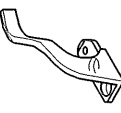
28. LED照明 ブレスクッション

LED LIGHTING, BREAST CUSHION



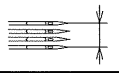
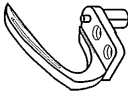
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
28-01	02-119	波座金	WASHER	4
28-02	27-385	LED用ブラケット (A)	BRACKET (A)	2
28-03	27-386	LED用ブラケット (B)	BRACKET (B)	2
28-04	27-387	LED用ヒンジ	HINGE	2
28-05	27-389	LEDライト	LED LIGHT	2
28-06	27-655	クッション組	CUSHION ASS'Y	1
28-07	75-455	ワッシャー	WASHER	4
28-08	75-625	カラー	COLLAR	2
28-09	87-264	段ネジ	SCREW	4
28-10	87-485	ブライトナベ小ねじ	SCREW	4
28-11	87-494	ブライトナベ小ねじ	SCREW	2
28-12	20-6155	LED用ブラケットセット	LED BRACKET SET	1

29. ゲージ部品一覧表 (1) GAUGE PARTS TABLE (1)

部品 PARTS	ゲージ GAUGE (mm)	針 株 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	補助ルーパ° NEEDLE GUIDE
モデル MODEL												
NFS6604GFS	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				
NFS6604GFSL	5. 2	12-6210-1	17-6130-1	17-6130-A	26-663	26-662	14-621	14-601 *14-604				
	6	12-6220-1	17-6140-1	17-6140-A			14-622	14-602 *14-605				
NFS6604GFIM	5. 2	12-6210-1	17-6230-1	17-6230-A	26-641	26-640	14-623	14-601 *14-604	15-622	15-623	18-621	19-620
	6	12-6220-1	17-6240-1	17-6240-A	(26-657)	(26-656)	14-624	14-602 *14-605				
NFS6604GFMH	5. 2	12-6210-1	17-6190-1	17-6190-A	26-644	26-643	14-623	14-601 *14-604				
	6	12-6220-1	17-6200-1	17-6200-A	(26-657)	(26-656)	14-624	14-602 *14-605				
NFS6604GFMB	5. 2	12-6210-1	17-6120-1	17-6120-A	26-661	26-660	14-623	14-601				
	6	12-6220-1	17-6110-1	17-6110-A			14-624	14-602				

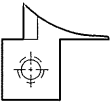
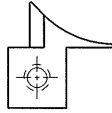
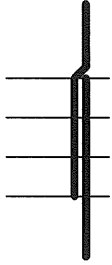
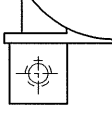
() は同梱品
() FOR ACCESSORIES
* 印はウーリー用
* FOR WOOLLY

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

部品 PARTS	ゲージ GAUGE (mm)	ルーパー 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									
NFS6604GFS	5.2 6	19-619	19-617	04-609 04-613	07-626	07-621	07-635		
NFS6604GFSL	5.2 6	19-619			07-626	07-621	07-635		
NFS6604GFLM	5.2 6	19-619	19-617	04-609 04-613	07-626	07-621	07-633	26-658 *26-642	26-650 (26-637) *26-670
NFS6604GFMH	5.2 6	19-619	19-617	04-609 04-613	07-631	07-634	07-633	26-645 *26-658	26-651 (26-637) *26-670
NFS6604GFMH-B	5.2 6	19-619	19-617	04-609 04-613	07-631	07-634	07-633		26-659

◆ 布ガイドの種類による仕上りの目安。

◆ The cloth guide can be used as a target to adjust the width of laps.

			
2 6 - 6 4 2	2 6 - 6 5 8	2 6 - 6 4 5	

() は同梱品

() FOR ACCESSORIES

* 印はオプション

* OPTION PART

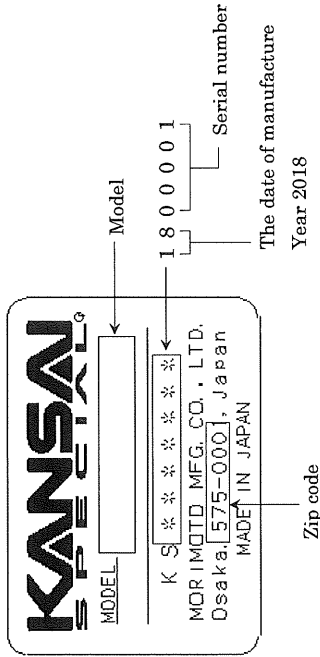
***NFS** Series Instruction Manual*

INTRODUCTION

Thank you for your purchasing Kansai Special's NFS6604GF 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



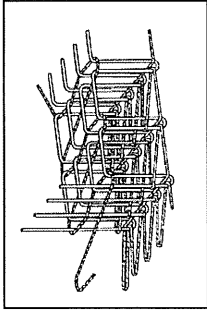
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[1] SPECIFICATION

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 >

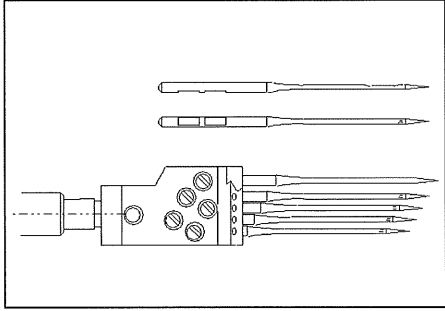
	# 8	# 9	# 10	# 11	# 12	# 14
Japan	Nm60	Nm65	Nm70	Nm75	Nm80	Nm90
Germany						

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.

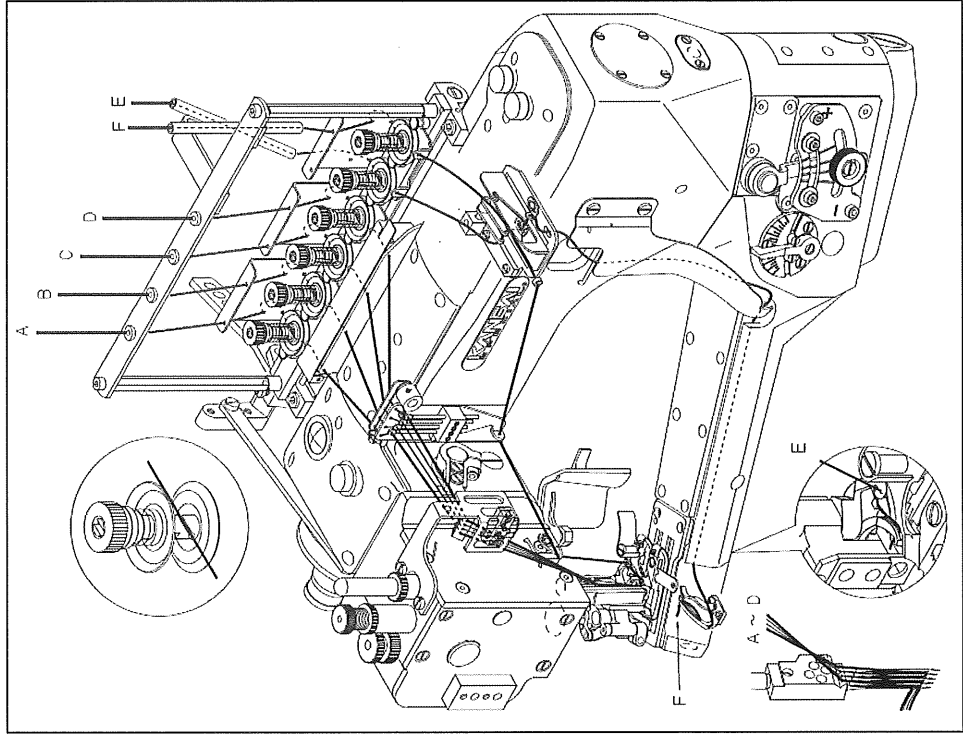
< Note >

Threading must be properly way for avoid machine broken.

A, B, C, D .. Needle threads

E Top over thread

F Looper thread

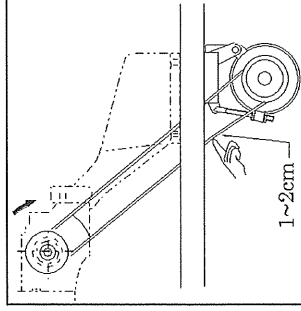


[3] MACHINE SPEED

3-1 Machine speed & running hand-wheel direction
This machine's operation speed is 3500~3800spm.

<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		4000SPM
100 mm		

[4] LUBRICATION & OIL

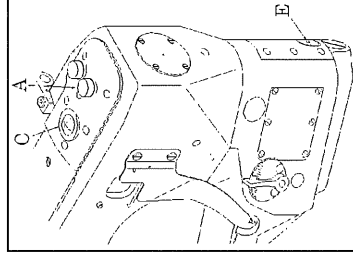
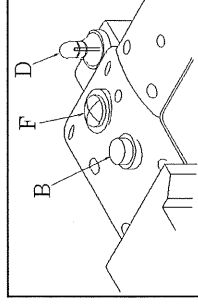
4-1 Oil

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.

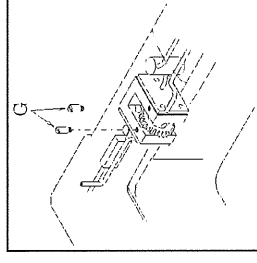


4-3 Check oil

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.

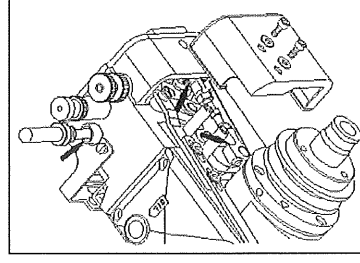
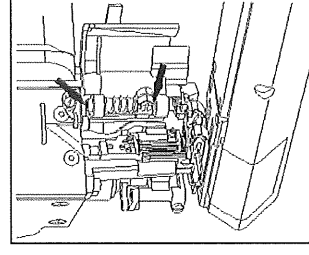
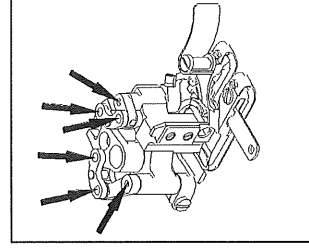
To do this, remove the two plug screw G.

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.



【5】SEWING MACHINE INSTALLATION

5-1 Process of machine table
See Parts reference 25~30page.

Type A (clutch motor)

Technical drawing of a mechanical part, likely a bracket or base plate, showing front, top, and side views with dimensions and section lines.

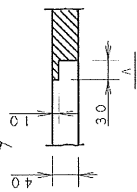
Front View (Top): Shows overall dimensions of 600 (width) and 300 (height). Key features include a central rectangular cutout with a width of 200 and a height of 120. The cutout has rounded corners with a radius of R10. The top surface has a fillet with a radius of R20. The bottom surface has a fillet with a radius of R5. The part is symmetrical about a vertical centerline.

Top View (Bottom): Shows the part from above with a width of 350 and a depth of 267.5. It features a central rectangular hole with a width of 120 and a depth of 120. The hole has rounded corners with a radius of R10. The part is symmetrical about a horizontal centerline.

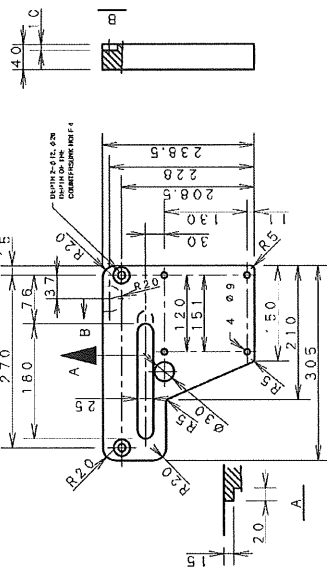
Side View (Right): Shows the part from the side with a width of 300 and a height of 150. It features a central rectangular cutout with a width of 120 and a height of 120. The cutout has rounded corners with a radius of R10. The part is symmetrical about a vertical centerline.

Section Lines: The drawing uses standard section line conventions to indicate different materials or sections. Section A-A is shown in the front view, and section B-B is shown in the top view.

Dimensions: The drawing includes numerous dimensions to specify the geometry of the part, including overall dimensions, hole sizes, and fillet radii.

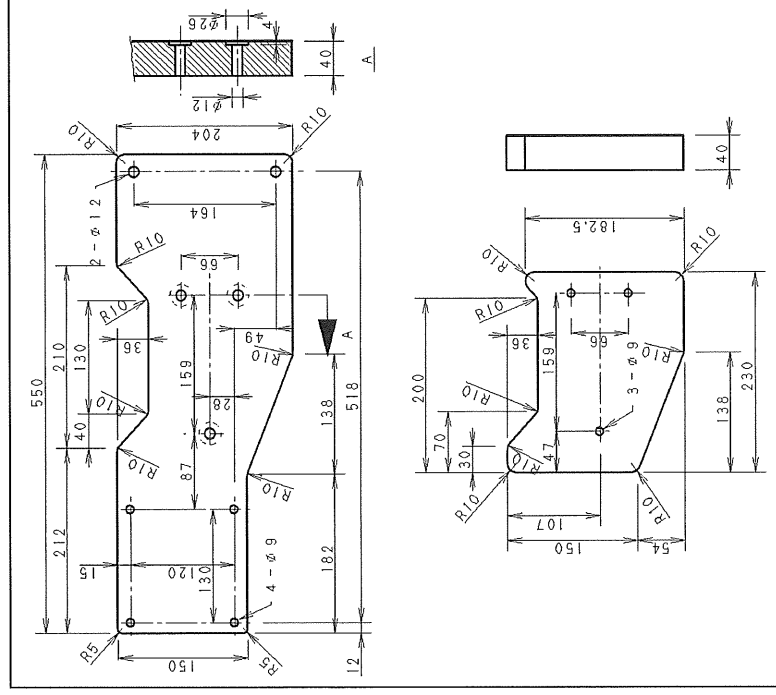
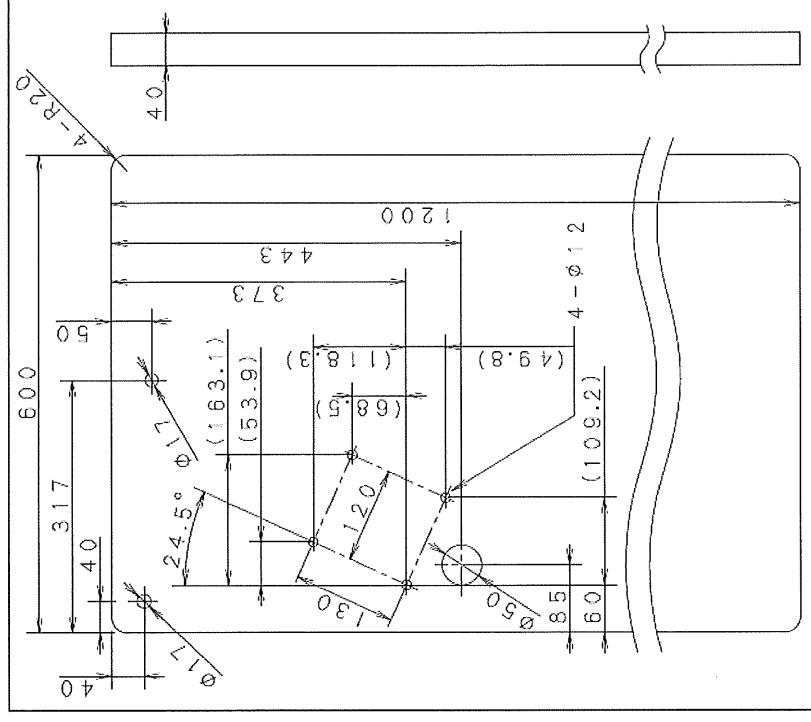


1



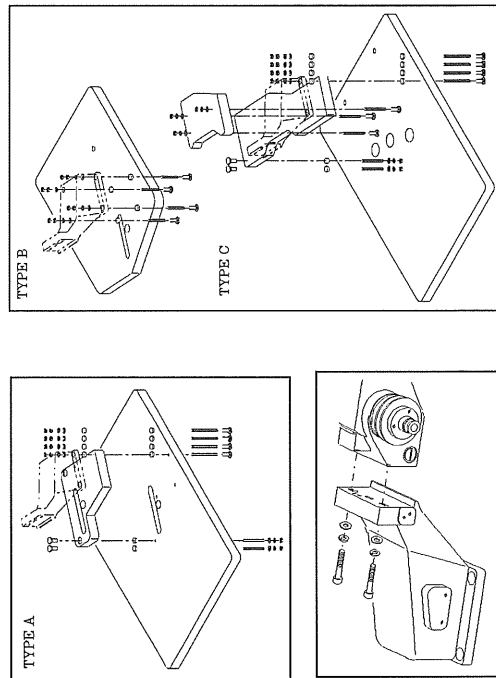
[illegible][illegible]

■ For DD-Motor



5-2 Installing the machine and mount base

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

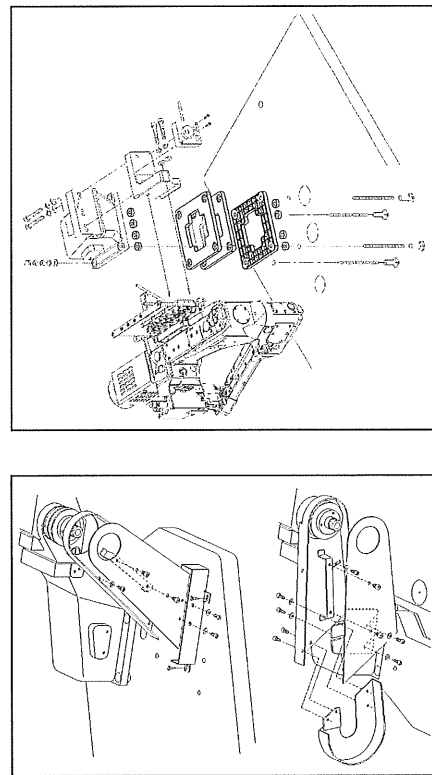


5-3 Installing the machine with DD-motor

- 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.



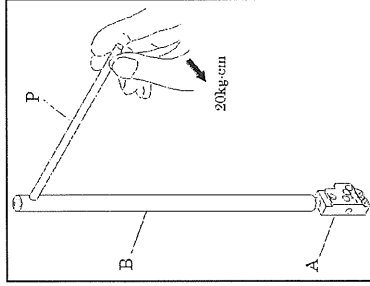
[6] TIMING OF THE LOOPERS & NEEDLES

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.



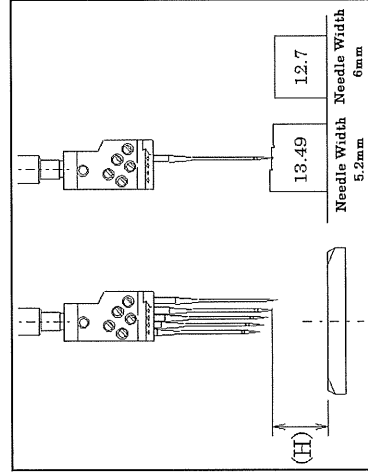
6-2 Adjusting needle bar height

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.



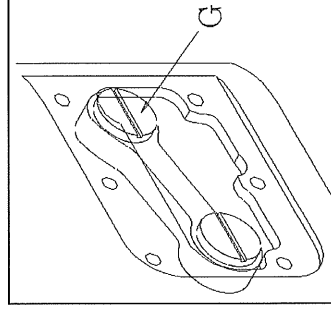
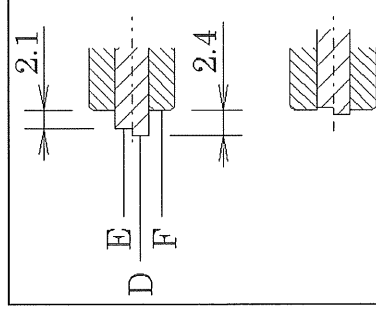
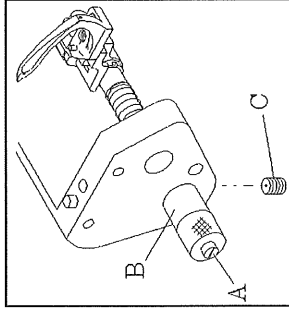
6-3 Adjusting looper back & front stroke

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.

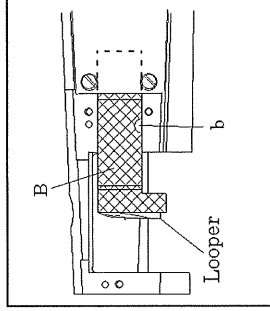
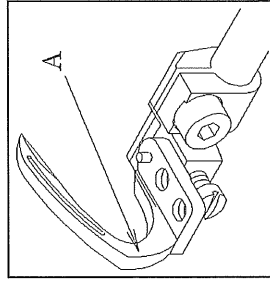


6-4 Degree of installing the looper

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° 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.

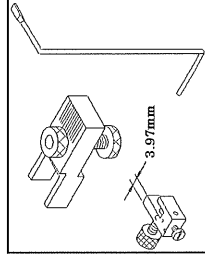
<Note >
After this adjustment, it is important to check the needle and looper timing (6-6).

6-6 Needles & loopers timing (relationship)

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

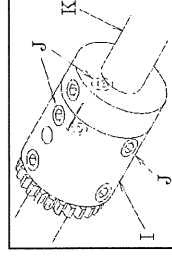
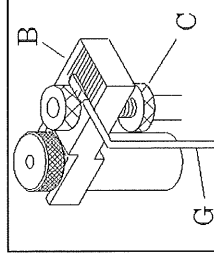
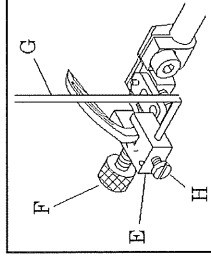
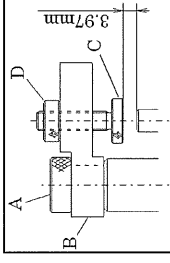
When needle bar rose at 3.97mm point from bottom position, at this point needle bar & looper are synchronized.

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



Timing gauge and adjustment procedure

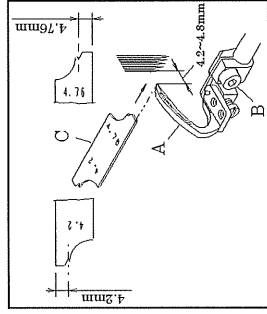
1. Needle bar set to extreme bottom position
2. Loosing adjustment screw A, then timing-block B insert. As shown on figure screw C comes to right top of needle bar by block B tighten with screw A.
3. As shown in figure, turning screw C to make space 3.97mm between needle bar top point by tighten with 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 crankroom, 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)

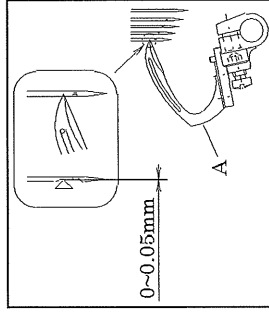
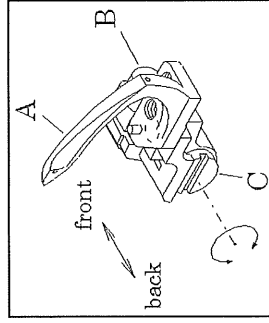
When the looper A is at the extreme left point, from left center of needle to the looper point distance should be 4.2mm~4.8mm as standard.
For adjustment, loosening screw B.



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

6-8 Adjusting looper back & forth position

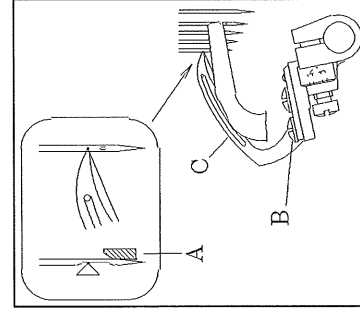
When the looper A move from extreme left point to the right, the looper A should pass behind the needle, but when looper A point reach to center of left needle(among of needles), looper A and left needle should have distance 0mm~0.05mm without touched.
For adjustment, loosening screw B, then turning 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.

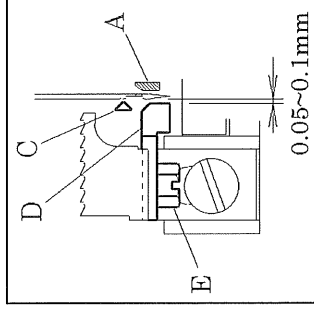


< Note >

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

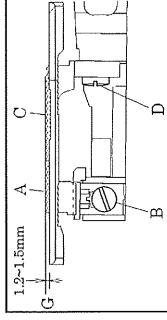
When needle guard D extremely approach to left needle, as loosening screw E to adjust the between left needle and needle guard set the gap at 0.05mm~0.1mm.



[18] 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

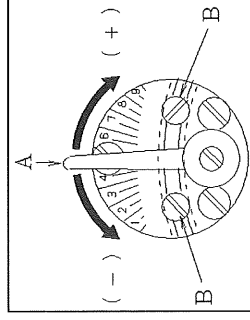
To adjusting differential feed, move lever left-to-right. When lever is between dial "4" and "5", differential feed comparison ratio is 1:1, differential is ineffective.

■ 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

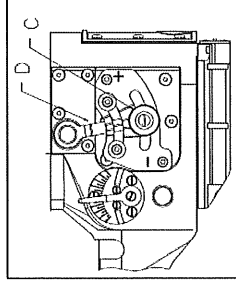
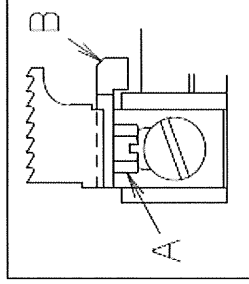
It can be adjustable stitch length 1.6mm~2.5mm by steplessly

■ To change the stitching length

1. Loosen nut C to adjust stitch length.
Move the lever D to the right then length increase.
Move the lever D to the left then length decrease.
2. When stitch length has decided, tighten nut D securely.
3. Check the needle guard position. If necessary adjusting needle guard B, loosen screw A, move the needle guard B to correct position. (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

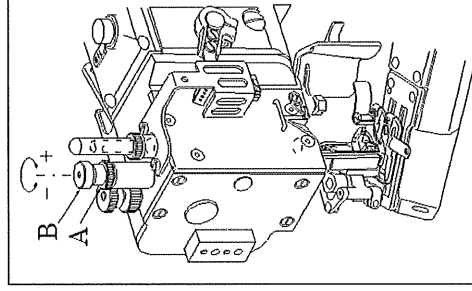


[9] ADJUSTING THE PRESSER FOOT

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.

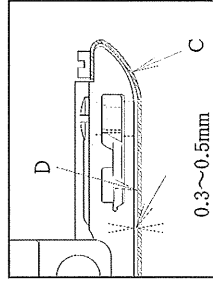
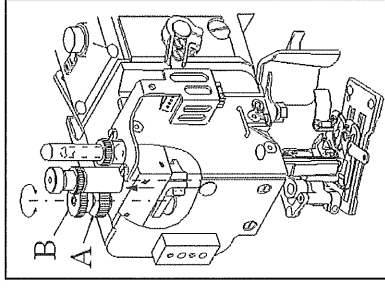


9-2 Adjusting presser foot up & down position

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.



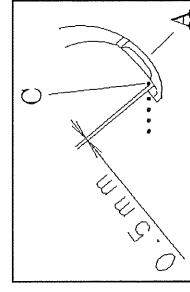
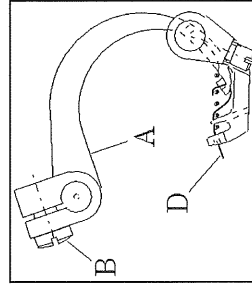
[10] ADJUSTING SPREADER (HOOK) & CARRIER

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 toward 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.



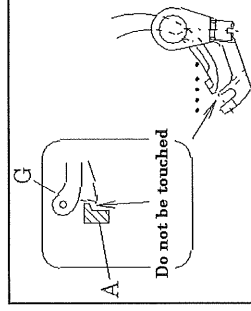
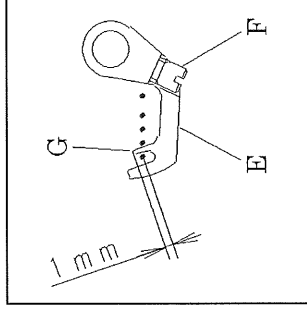
10-2 Adjusting the carrier

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

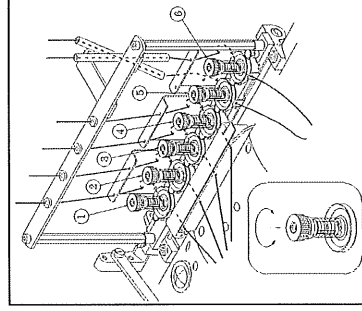
11-1 Adjusting thread tension

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
(①Right needle, ④Left 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

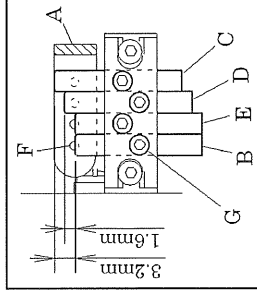
There are 4 upper thread guards per 4 needles thread; each needle thread can be adjustable.

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.

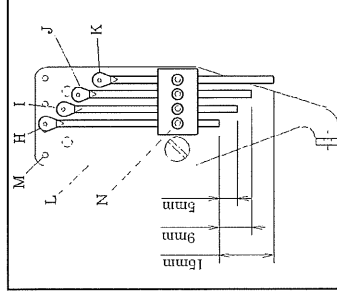


■ Adjusting the needle-thread-road (As shown figure)

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.

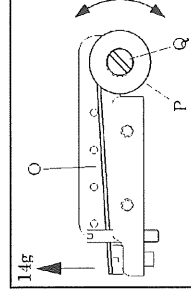


■ Adjusting needle thread road spring

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 Q and turn the spring holder P.



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.

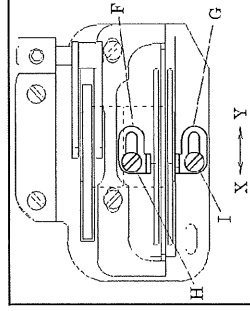
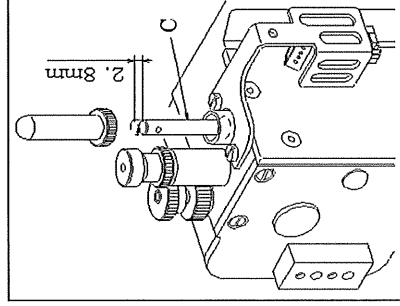
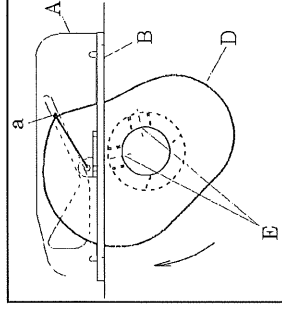
- Timing of lower-thread tension
When needle bar come 2.8mm down from extreme high position, lower-thread tension D "a" match that looper-thread should be able to through (as shown figure) as standard.
For adjusting this, loosen screw E.

- 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

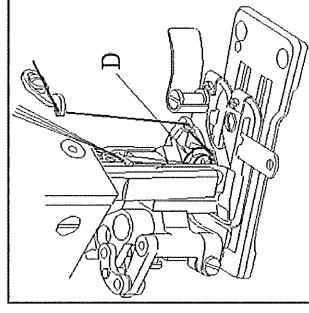
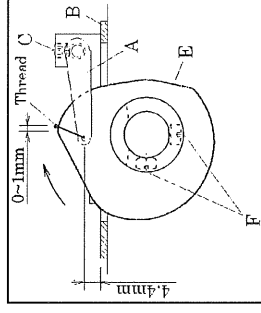
The right illustration is decoration thread tension as seen from front.

- 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

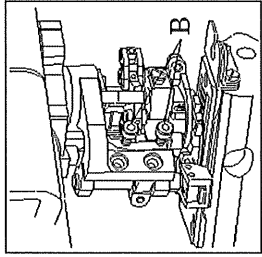
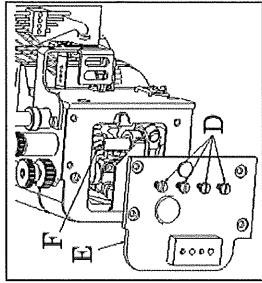
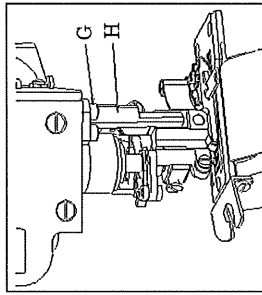
- Timing of decoration tension
Decoration-thread hold distance 0~1mm from decoration thread tension E's extreme height point when thread synchronized hangs hook D.
For adjustment, loosen screw F.

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

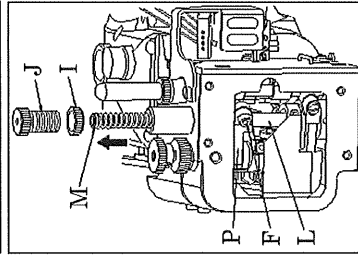


【12】 REPLACING THE PRESSER FOOT

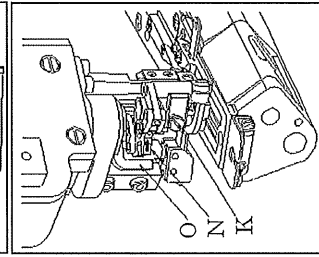
- Removing presser foot
 1. Loosen screw A
 2. Loosen screw B, then remove the upper-knife holder including knife.
 3. Loosen screw D then remove the cover E
 4. Loosen screw F
 5. Loosen screw G then remove guide H



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

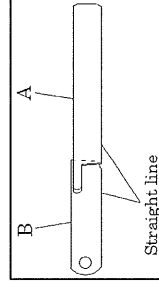
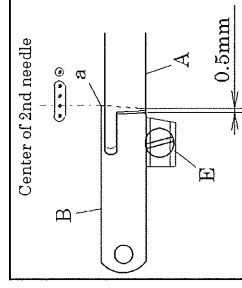
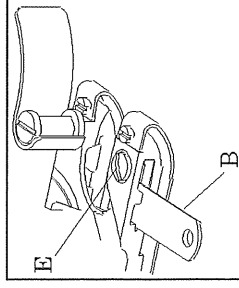
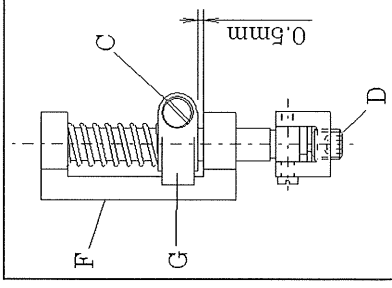


- Installing presser foot
Referring to figure, install from opposite procedure 9. ~ 1.
- When presser-foot install, decoration drive sleeve's lever O set to carrier hook N and paralleled.
- When guide H install, presser foot should not be shaken horizontally and for moving upward & downward as lightly.
- When upper-knife holder (including knife) install, refer (13"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.



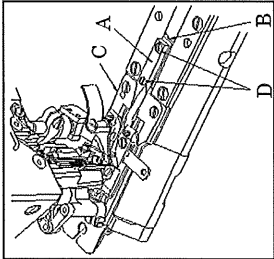
【13】 ADJUSTING & REMOVING THE KNIFE

- 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

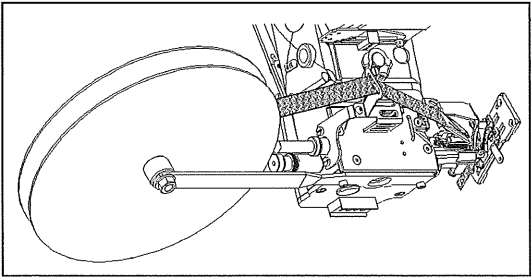


- Standard left-right position should be fabric guide A positioned center of needles.
- Standard front-back position should be fabric guide plate B touched needle plate C.

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.
Extra part XG-337 for light weight materials.

NFS6604GLK	NFS6604GMH	ACCESSORIES	OPTION	EXTRA
26-650	26-651	26-637	26-670	XG-337

[14] TO USING THE TAPE GUIDE



Please set a tape guide of GSL series correctly as shown in the figure to the right.

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