

PARTS LIST & INSTRUCTION

*NR***SERIES**

Industrial Sewing Machines

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

No. 160066

KANSAI
SPECIAL®

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

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

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

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

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

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

■部品は、予告なく変更される場合がありますので、あらかじめ御了承下さい。

■Parts are subject to change without notice.

NRシリーズ 表示方法

NR SERIES INFORMATION

■NR9803Gは上飾り付です。

NR9803G is with top cover thread.

NR9701Gは上飾り無しです。

NR9701G is without top cover thread.

■針幅です。(インチ)

Needle width. (inch)

N	R	9	8	0	3	G	C	C	-	U	T	A	-	1	/	4
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■3は3本針です。

3 is 3 Needle machine.

■UTAはエア式糸切装置付マシンです。(PNEUMATIC TYPE)

UTA is with thread trimmer unit.

UTEは電気式糸切装置付マシンです。(ELECTRIC TYPE)

UTE is with thread trimmer unit.

UTABはUTAのエアブロー式糸切装置付マシンです。

UTAB is UTA with air wiper

without top cover thread trimmer.

■CCは地縫い、裾引き、潰しカバーリング、片倒しカバーリング用です。

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

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

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

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

PLKは左メス装置、ギアプラー付ゴム入れ用です。

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

PEHKは右メス装置、スムーズプラー付丸ゴム付用です。

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

PGHKは右メス装置、ギアプラー付丸ゴム付用です。

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

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

Jはジーンズ 裾三巻用です。

J for hemming trouser bottoms and sleeves on jeans wear.

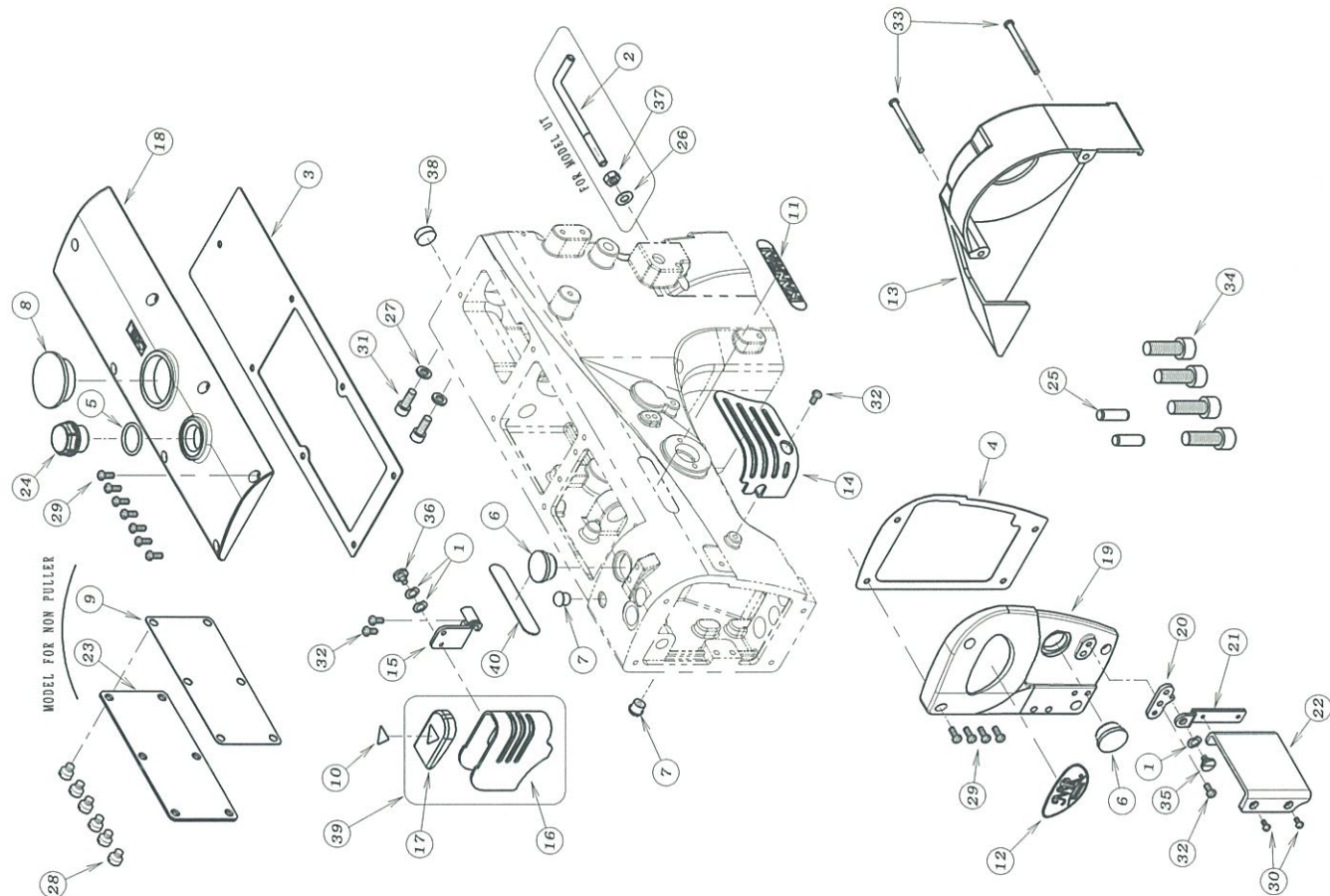
PMDは前プラー装置付です。 PMD is with front puller.

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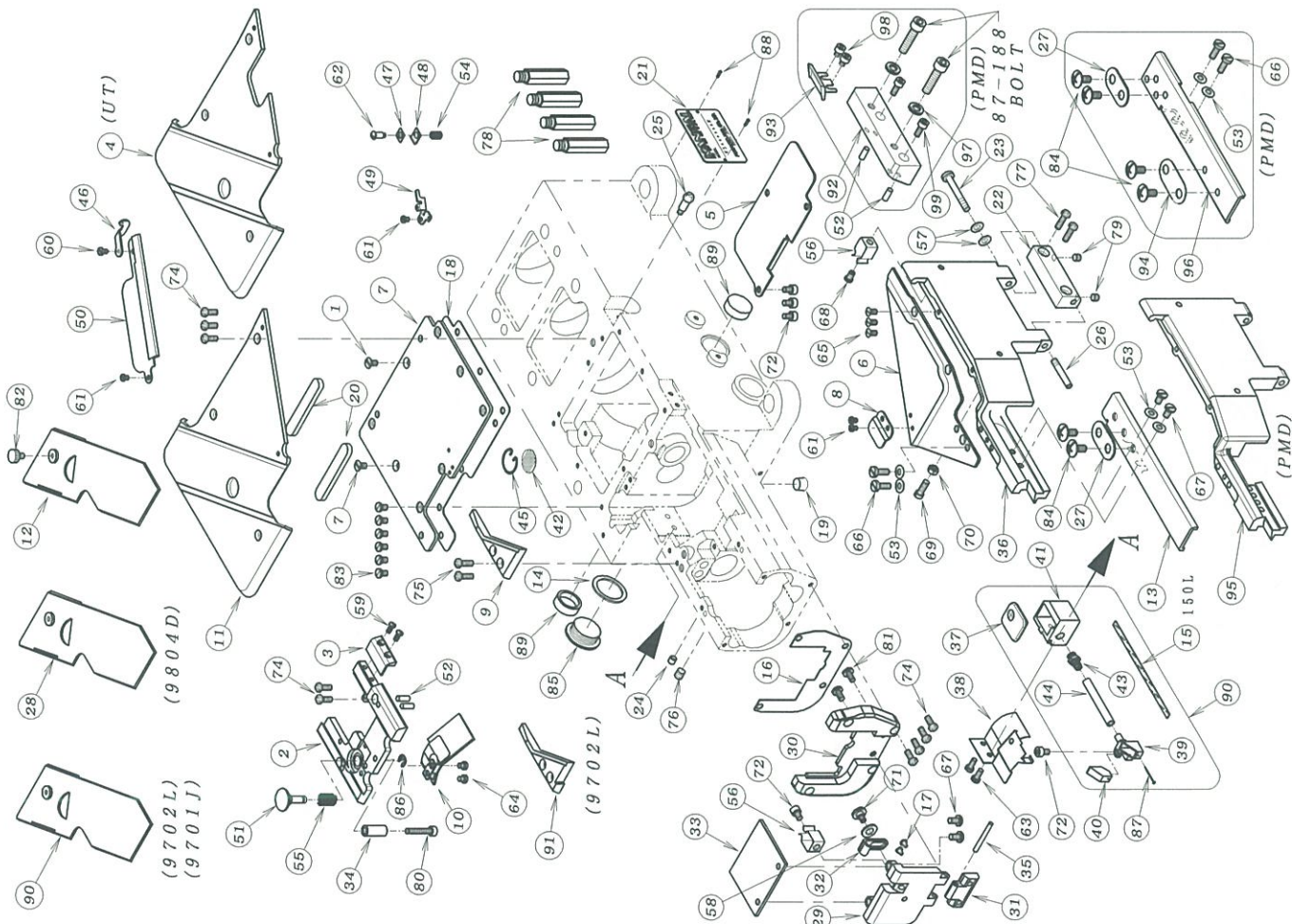
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1. フレーム関係 (1) FRAME ASSEMBLY (1)



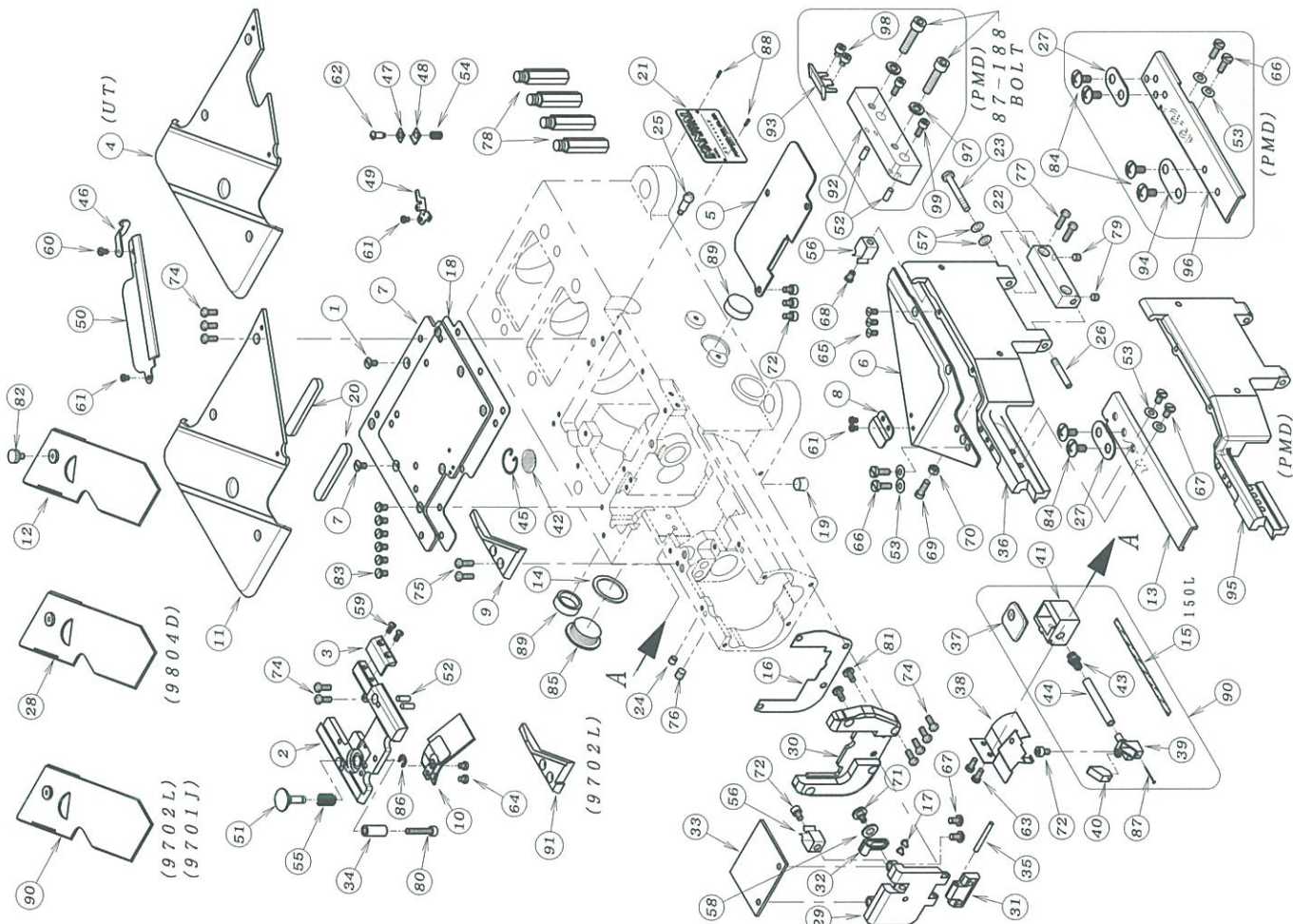
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
01-01102-119	01-01102-119	溶接金	WASHER	3
01-02105-292	01-02105-292	ボ' シ' ヨナ' ハ' -	BAR	1
01-03233-041	01-03233-041	トップ' カ' ハ' - ハ' ッキン	GASKET	1
01-04123-045	01-04123-045	面板' ハ' ッキン	GASKET	1
01-05233-287	01-05233-287	O-リング	O RING	1
01-06123-427	01-06123-427	コ' ム栓	PLUG	2
01-07123-501	01-07123-501	コ' ム栓	PLUG	2
01-08233-504	01-08233-504	コ' ム栓	PLUG	1
01-09233-538	01-09233-538	ハ' ッキン	GASKET	1
01-10243-060	01-10243-060	針棒' カ' ハ' - ジール	SEAL	1
01-11124-069	01-11124-069	銘版	BRAND NAME PLATE	1
01-12243-062	01-12243-062	機構プレート	MODEL PLATE	1
01-13273-136	01-13273-136	プーリー' カ' ハ' -	PULLEY COVER	1
01-14273-231	01-14273-231	天枠' カ' ハ' -	COVER	1
01-15273-233	01-15273-233	針棒' カ' ハ' - フ' ラケット	BRACKET	1
01-16273-234	01-16273-234	針棒' カ' ハ' -	NEEDLE BAR COVER	1
01-17273-235	01-17273-235	針棒' カ' ハ' - コ' ム	RUBBER	1
01-18273-237W	01-18273-237W	トップ' カ' ハ' -	TOP COVER	1
01-19273-238W	01-19273-238W	面版	HEAD COVER	1
01-20273-239	01-20273-239	アイ' カ' - ト' ヒンジ' (1)	HINGE	1
01-21273-240	01-21273-240	アイ' カ' - ト' ヒンジ' (2)	HINGE	1
01-22273-241	01-22273-241	アイ' カ' - ト' ヒンジ' (3)	HINGE	1
01-23273-323W	01-23273-323W	後' カ' ハ' -	REAR COVER	1
01-24393-235	01-24393-235	オイル' ボット	OIL POT	1
01-25171-580	01-25171-580	ノック' ビ' シ	PIN	2
01-26175-452	01-26175-452	ワッシャ	WASHER	1
01-27175-552	01-27175-552	ワッシャ	WASHER	2
01-28873-053	01-28873-053	スリ' リ' 付' 小' ネジ' M6 x 6 L	SCREW M6 x 6 L	6
01-29873-483	01-29873-483	ブラ' マ' イ' ナ' ベ' ム' ネジ	SCREW	11
01-30873-477	01-30873-477	ブラ' マ' イ' ナ' ベ' ム' ネジ	SCREW	2
01-31187-171	01-31187-171	六角' 穴' 付' き' ボルト	BOLT	2
01-32873-482	01-32873-482	ブラ' マ' イ' ナ' ベ' ム' ネジ	SCREW	4
01-33873-489	01-33873-489	ブラ' マ' イ' ナ' ベ' ム' ネジ	SCREW	2
01-34873-228	01-34873-228	六角' 穴' 付' き' ボルト	BOLT	4
01-35873-264	01-35873-264	段' ネジ'	SCREW	1
01-36873-437	01-36873-437	段' ネジ'	SCREW	1
01-37188-166	01-37188-166	ナット	NUT	1
01-38943-504	01-38943-504	シール' キャップ'	PLUG	1
01-39203-0008	01-39203-0008	針棒' カ' ハ' - セット	NEEDLE BAR COVER ASS'Y	1
01-40243-052	01-40243-052	銘版	BRAND NAME PLATE	1

2. フレーム関係 (2-1) FRAME ASSEMBLY (2-1)



REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
02-01	05-061	ネジ	SCREW	
02-02	14-167	針板土台	NEEDLE PLATE SUPPORT BRACKET	1
02-03	14-168	針板補助プ' ラケット	BRACKET	1
02-04	21-610W	上ヘ' -スカバ' -	UPPER COVER	1
02-05	21-640	防護プ' レート	PLATE	1
02-06	21-642W	定規板	FRONT COVER	1
02-07	21-643	上油カバ' -	CRANK CHAMBER COVER	1
02-08	21-644	調子皿保護カバ' -	COVER	1
02-09	21-646W	差板補助カバ' -	COVER	1
02-10	21-670	オイルカバ' -	OIL DIFENDER	1
02-11	21-678W	上ヘ' -スカバ' -	UPPER COVER	1
02-12	21-679	差板	SLIDE COVER	1
02-13	21-874	補助カバ' -	COVER	1
02-14	23-298	フタネジ用シール	SEAL	1
02-15	23-341	フェルト	FELT	1
02-16	23-510	ハ' ッキン	GASKET	1
02-17	23-512	クッションコ' ム	CUSHION RUBBER	2
02-18	23-513	ハ' ッキン	GASKET	1
02-19	23-528	プ' ラク'	PLUG	1
02-20	23-570	防護マット	CUSHION	2
02-21	24-053	モテ' ルステッガー	TYPE PLATE	1
02-22	25-516W	定規台ヒンジ'	HINGE	1
02-23	25-517	ヒンジ' ネジ'	SCREW	1
02-24	25-521	プ' ラク'	PLUG	1
02-25	25-522	カハ' -ストッパ' ネジ'	SCREW	1
02-26	25-527	カハ' -ヒンジ' ネジ'	SCREW	1
02-27	26-822	ラッパ' 取付金具	PLATE	2
02-28	27-114	差板	SLIDE COVER	1
02-29	27-212W	横カバ' -	SIDE COVER	1
02-30	27-213W	横カバ' -ヒンジ' 土台	HING	1
02-31	27-214W	横カバ' -ヒンジ	HING	1
02-32	27-215	レハ' -	LEVER	1
02-33	27-216	横カバ' -プ' レート	SIDE COVER PLATE	1
02-34	27-217	カハ' -ストッパ' カラー	COLLAR	1
02-35	27-218	ヒンジ' ビ' ン	PIN	1
02-36	27-223W	定規台	FRONT COVER	1
02-37	27-279	ニードルクーラー蓋	NEEDLE COOLER COVER	1
02-38	27-303	オイルプ' エンス (下輪)	OIL DIFENDER	1
02-39	27-522	ニート' ルクーラー	NEEDLE COOLER	1
02-40	27-523	フェルト	FELT	1
02-41	27-524	ニート' ルクーラー-タンク	NEEDLE COOLER TUNK	1
02-42	31-503	濾過網	OIL FILTER SCREEN	1
02-43	31-505	継手	JOINT	1
02-44	35-522	ヒ' ニールチューブ'	TUBE	1
02-45	39-503	濾過網押え	CLAMP	1
02-46	43-515	ルーバ' -系道	THREAD EYELET	1
02-47	43-516	調子皿 (上)	TENSION DISK	1
02-48	43-517	調子皿 (下)	TENSION DISK	1
02-49	43-527	調子皿カ' イト'	TENSION DISK GUIDE	1
02-50	43-528	ルーバ' -系案内	LOOPER THREAD GUIDE	1
02-51	69-517	プ' ヅェホ' タン	PUSH BUTTON	1
02-52	71-253	ノックビ' ン	PIN	4
02-53	75-455	ワッシャ	WASHER	6
02-54	79-524	調子ハ' ネ	TENSION SPRING	1
02-55	79-528	ハ' ネ	SPRING	1
02-56	79-912	ハ' ネ	SPRING	2

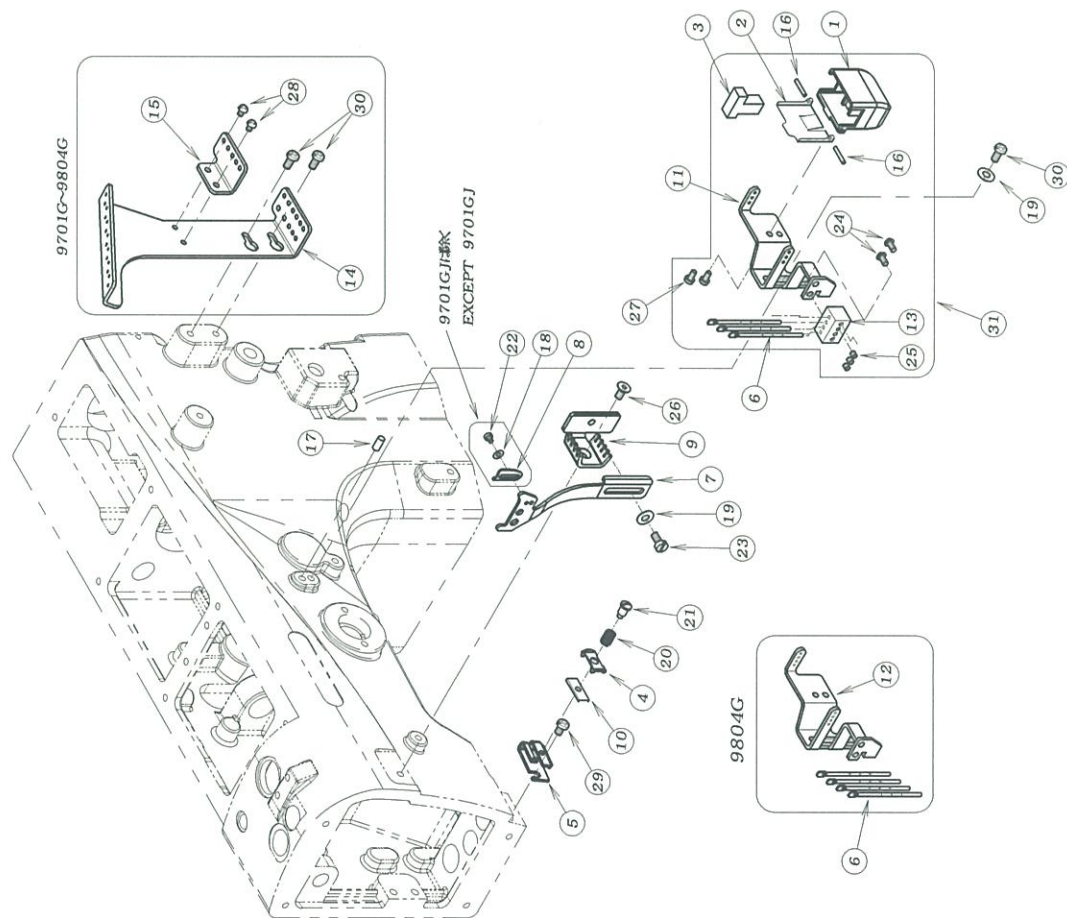
2. フレーム関係 (2-2) FRAME ASSEMBLY (2-2)



REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
02-5779-922	■バネ	SPRING		2
02-5879-927	■ばね 6	SPRING		1
02-5984-154	ネジ	SCREW		2
02-6084-161	ネジ	SCREW		1
02-6184-167	ネジ	SCREW		4
02-6284-175	脂ネジ	SCREW		1
02-6384-360	ネジ	SCREW		2
02-6484-364	ネジ	SCREW		2
02-6584-464	ネジ	SCREW		3
02-6684-566	ネジ	SCREW		4
02-6784-574	ネジ	SCREW		4
02-6884-575	ネジ	SCREW		1
02-6984-635	ネジ	SCREW		1
02-7086-311	ナット	NUT		1
02-7187-066	脂ネジ	SCREW		1
02-7287-092	六角穴付きボルト	BOLT		5
02-7320-0003	ニードルクーラーセット	NEEDLE COOLER ASS'Y		1
02-7487-483	ブライヤナベ小ねじ	SCREW		9
02-7587-484	ブライヤナベ小ねじ	SCREW		2
02-7687-172	ネジ	SCREW		1
02-7787-485	ブライヤナベ小ねじ	SCREW		2
02-7887-258	スタント・ピン	PIN		4
02-7987-274	ネジ	SCREW		2
02-8087-283	六角穴付きボルト	BOLT		1
02-8187-288	ネジ	SCREW		2
02-8287-409	ネジ	SCREW		1
02-8387-415	ネジ	SCREW		6
02-8487-436	ネジ	SCREW		6
02-8587-812	ネジ	SCREW		1
02-8693-205	リング	E-RING		1
02-8793-624	フェルトビニ	PIN		1
02-8893-701	ピン	PIN		2
02-8994-506	オイルシール	OIL SEAL		2
02-9021-798	差板	SLIDE COVER		1
02-9121-799W	差板補助カバー	COVER		1
02-9201-156	前ブローラ取付台	BRACKET		1
02-9301-157	油受け	PLATE		1
02-9426-712	取付金具	WASHER		1
02-9527-226	定規台 (PMD)	FRONT COVER		1
02-9627-227	補助カバー	COVER		1
02-9775-552	ワッシャー	WASHER		2
02-9887-067	六角穴付きボルト	BOLT		2
02-9987-113	ネジ	SCREW		2

3. 糸調子機構

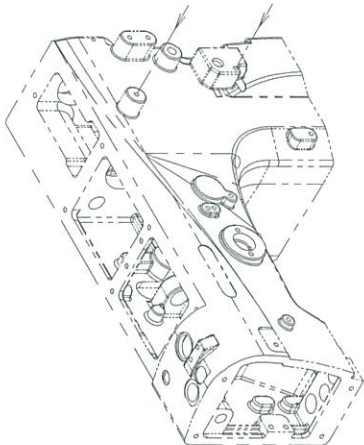
THREAD TENSION MECHANISM



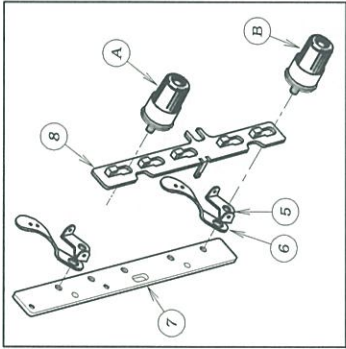
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
03-01127-039	シリコンタンク	SILICONE OIL RESERVOIR	1	
03-02127-533	シリコンタンクフタ	COVER	1	
03-03127-534	フェルト	FELT	1	
03-04141-021	カム糸道	THREAD NIPPER	1	
03-05141-022	小調子台	THREAD GUIDE BRACKET	1	
03-06145-031	糸道	THREAD EYELET	7	
03-07145-033	上糸割き	THREAD GUIDE	1	
03-08145-034	補助上糸割き	THREAD GUIDE	1	
03-09145-038	上糸カ・イト*	GUIDE	1	
03-10145-508	針株小調子板	PLATE	1	
03-11145-541	シリコンタンク糸道	THREAD EYELET	1	
03-12145-551	シリコンタンク糸道	THREAD EYELET	1	
03-13145-553	ホルダ・ー	HOLDER	1	
03-14145-567	糸ガイド	THREAD GUIDE	1	
03-15145-568	糸ガイド糸道	THREAD EYELET	1	
03-16171-202	シリコンタンク用ピン	SILICONE PIN	2	
03-17171-209	平行ピン	PIN	1	
03-18175-441	ワッシャ	WASHER	1	
03-19175-455	ワッシャ	WASHER	2	
03-20179-025	カム糸道バネ	SPRING	1	
03-21184-021	ハ・ネカ・イト・ネジ*	SCREW	1	
03-22187-093	ネジ*	SCREW	1	
03-23187-096	ネジ*	SCREW	1	
03-24187-099	ネジ*	SCREW	2	
03-25187-104	ネジ*	SCREW	3	
03-26187-269	ネジ*	SCREW	1	
03-27187-372	タッピンダネジ	SCREW	2	
03-28187-476	ブラマイナベ小ねじ	SCREW	2	
03-29187-481	ブラマイナベ小ねじ	SCREW	1	
03-30187-482	ブラマイナベ小ねじ	SCREW	3	
03-31140-523W-3	シリコンタンク糸道セット	THREAD EYELET ASS'Y	1	

4.糸調子機構 (UT 除外)

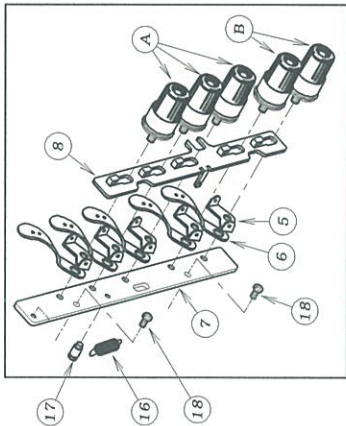
THREAD TENSION MECHANISM (WITHOUT UT)



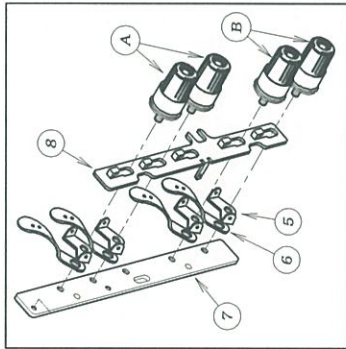
9701



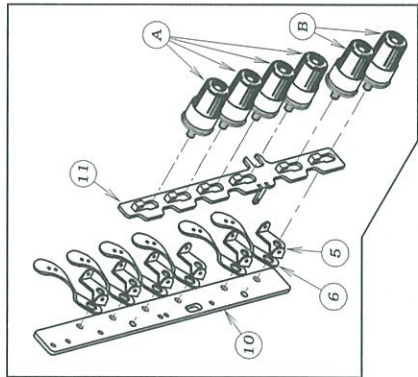
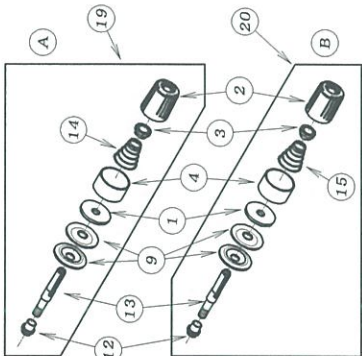
9803



9702

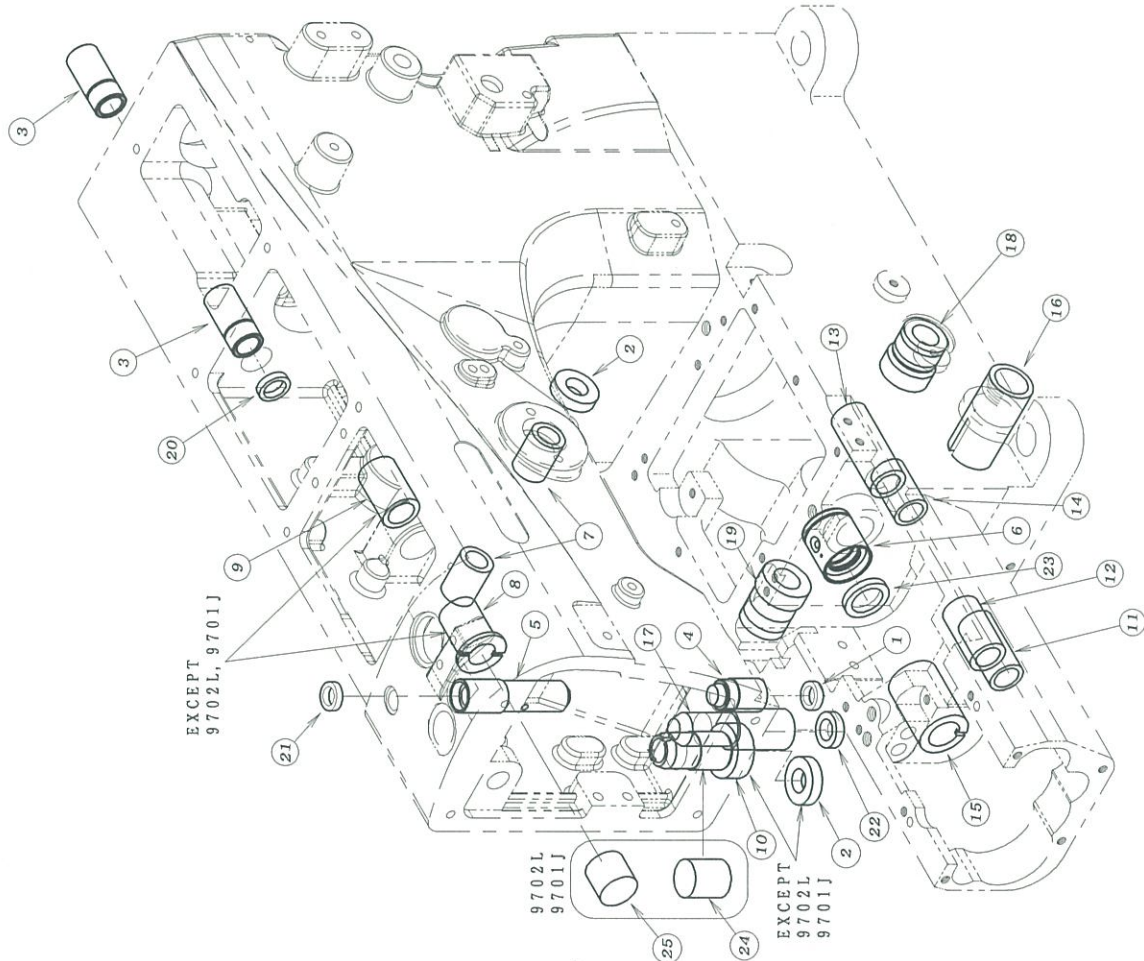


9804



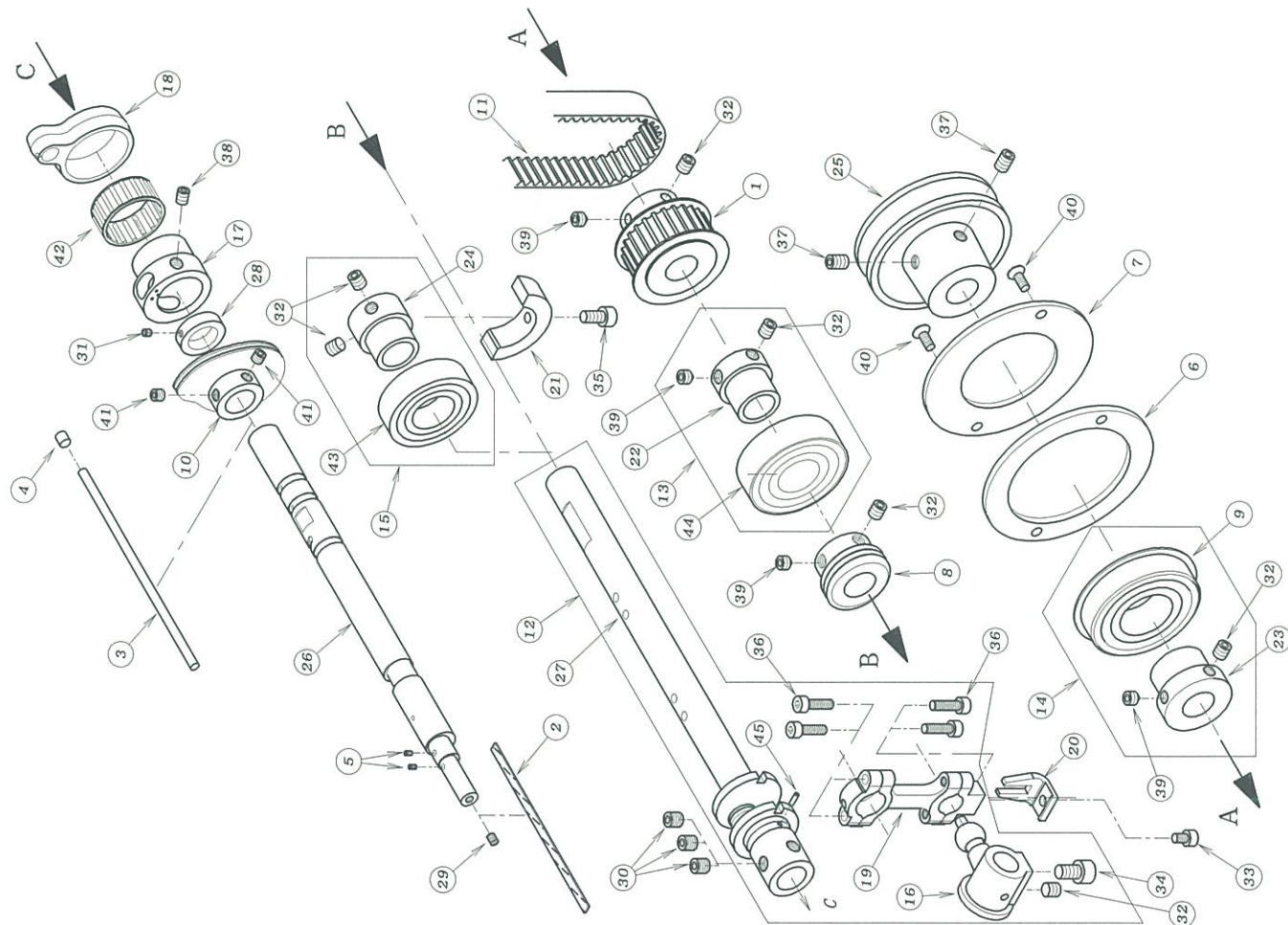
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
04-01	23-324	フェルト	FELT	*
04-02	41-104	チャンポン皿小ケース	THREAD TENSION NUT	*
04-03	41-105	チャンポン皿ラチェット	SPRING POST	*
04-04	41-106	チャンポン皿大ケース	SPRING CUP	*
04-05	41-115	糸道 (上)	THREAD GUIDE	*
04-06	41-117	糸道 (下)	THREAD GUIDE	*
04-07	41-501	ブラケット	BRACKET	1
04-08	41-502	糸繰め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

5. ブッシュ機構 BUSHING



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
05-01	94-511	オイルシール	OIL SEAL	1
05-02	94-804	オイルシール	OIL SEAL	2
05-03	81-023	滑車側ギヤ運動シャフトブッシュ	BUSHING	2
05-04	81-047	針棒ブッシュ (下)	BUSHING	1
05-05	81-048	針棒ブッシュ (上)	BUSHING	1
05-06	81-049	下軸ブッシュ (後)	BUSHING (REAR)	1
05-07	81-506	ブッシュ	BUSHING	2
05-08	81-507	ブッシュ	BUSHING	1
05-09	81-508	ブッシュ	BUSHING	1
05-10	81-587	釣り糸ルバー棒ブッシュ	BUSHING	1
05-11	81-511	ブッシュ	BUSHING	1
05-12	81-512	ブッシュ	BUSHING	1
05-13	81-513	ブッシュ	BUSHING	1
05-14	81-514	ブッシュ	BUSHING	1
05-15	81-515	ブッシュ	BUSHING	1
05-16	81-518	ブッシュ	BUSHING	1
05-17	81-546	ブッシュ	BUSHING	1
05-18	81-580	ルバー振り元軸ブッシュ	BUSHING	1
05-19	81-581	ルバー振り元軸ブッシュ	BUSHING	1
05-20	94-102	オイルシール	OIL SEAL	1
05-21	94-231	オイルシール	OIL SEAL	1
05-22	94-503	オイルシール	OIL SEAL	1
05-23	94-510	オイルシール	OIL SEAL	1
05-24	25-506	詰栓	SEAL PLUG	1
05-25	25-507	詰栓	SEAL PLUG	1

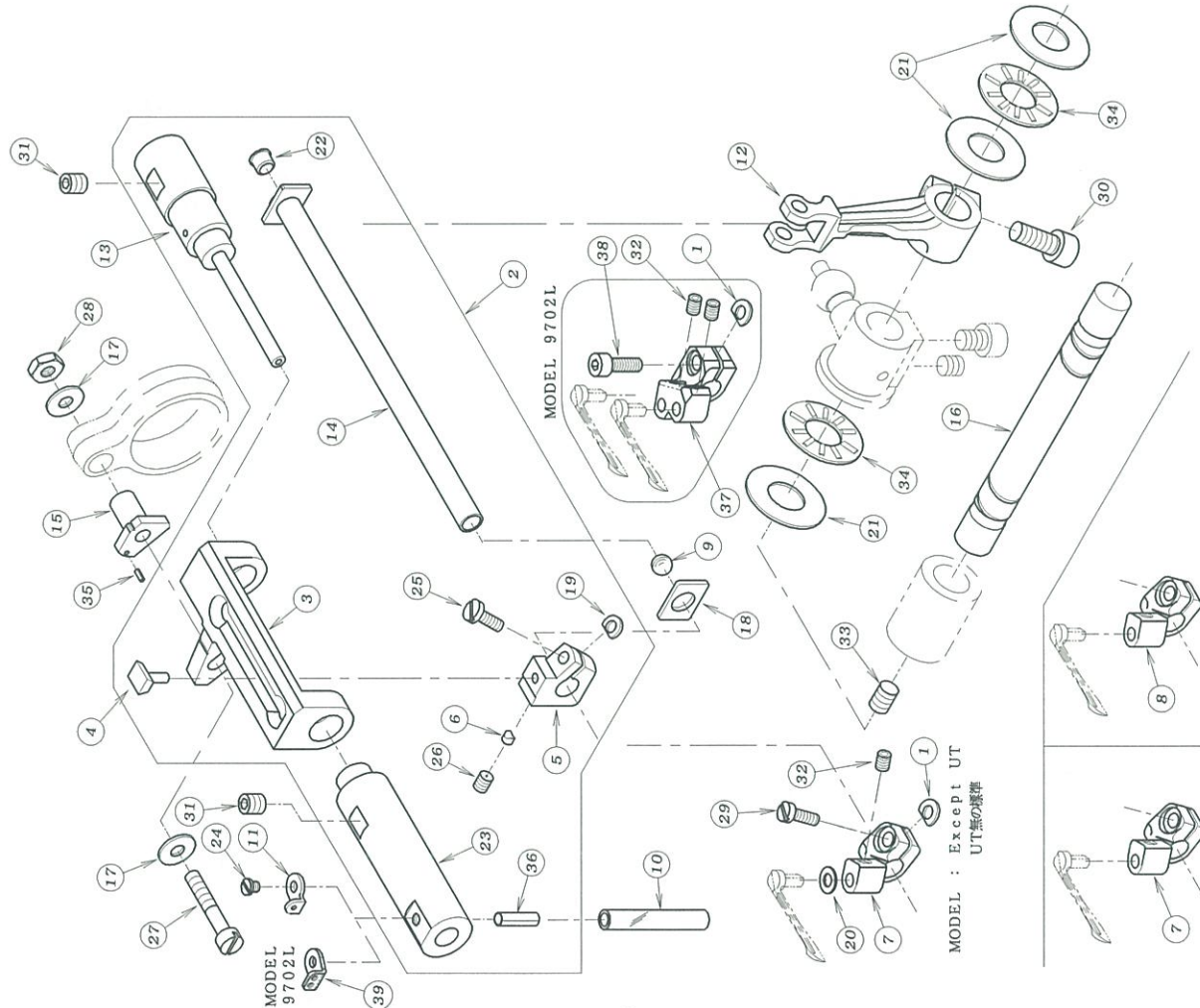
6. 下軸機構 CRANKSHAFT MECHANISM



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

7. ルーパ-機構

LOOPER MECHANISM



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

MODEL : With UT
UT付

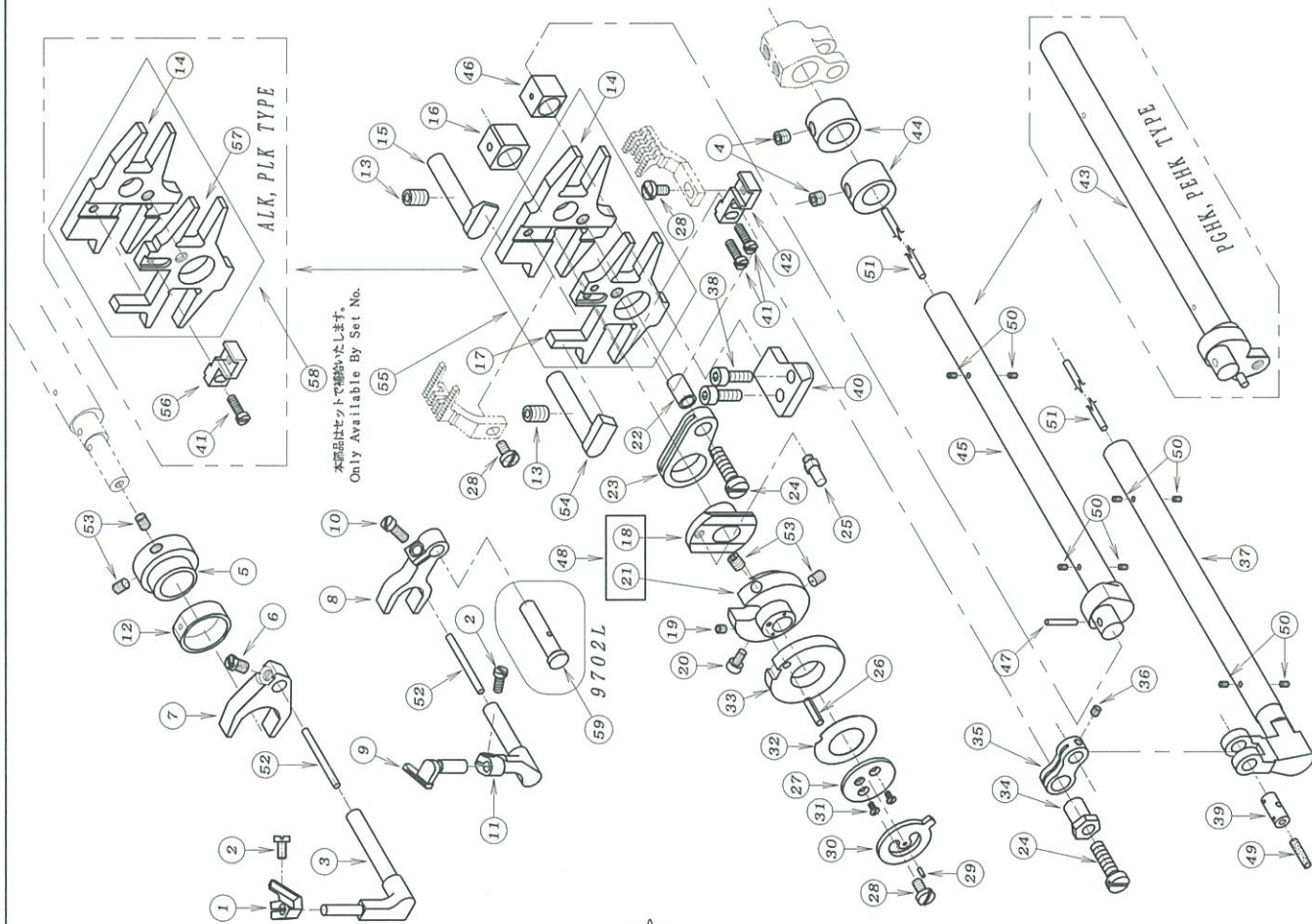
* Except UT & Use for needle plate of soft stitch
* UT無でかまぼこ防止用針板使用

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

* かまぼこ防止用針板の品番は、49ページのゲ-ジパーツ表を参照して下さい。

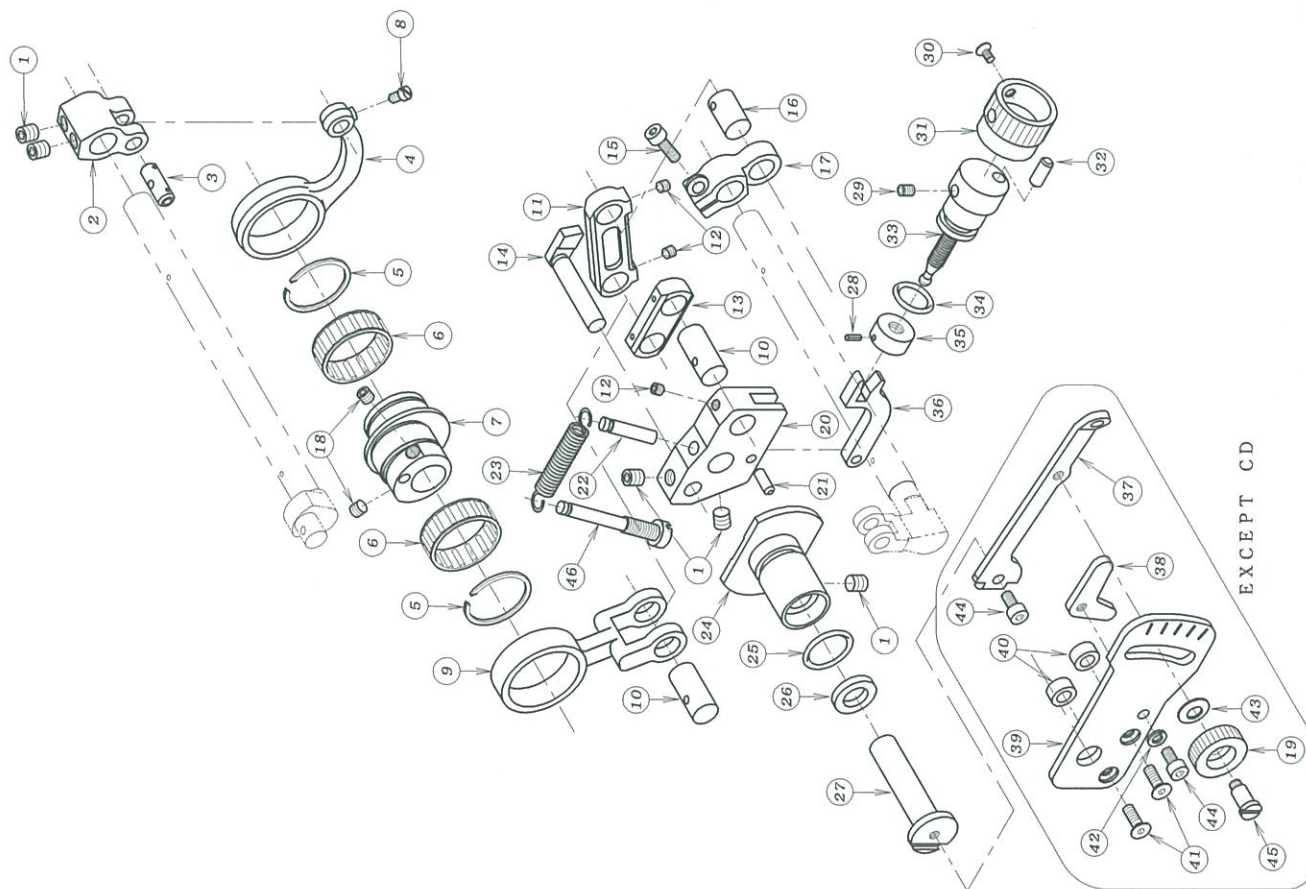
* Please refer to Page 49 GAUGE PARTS LIST for soft stitch

8. 送り機構 (1) FEED MECHANISM (1)



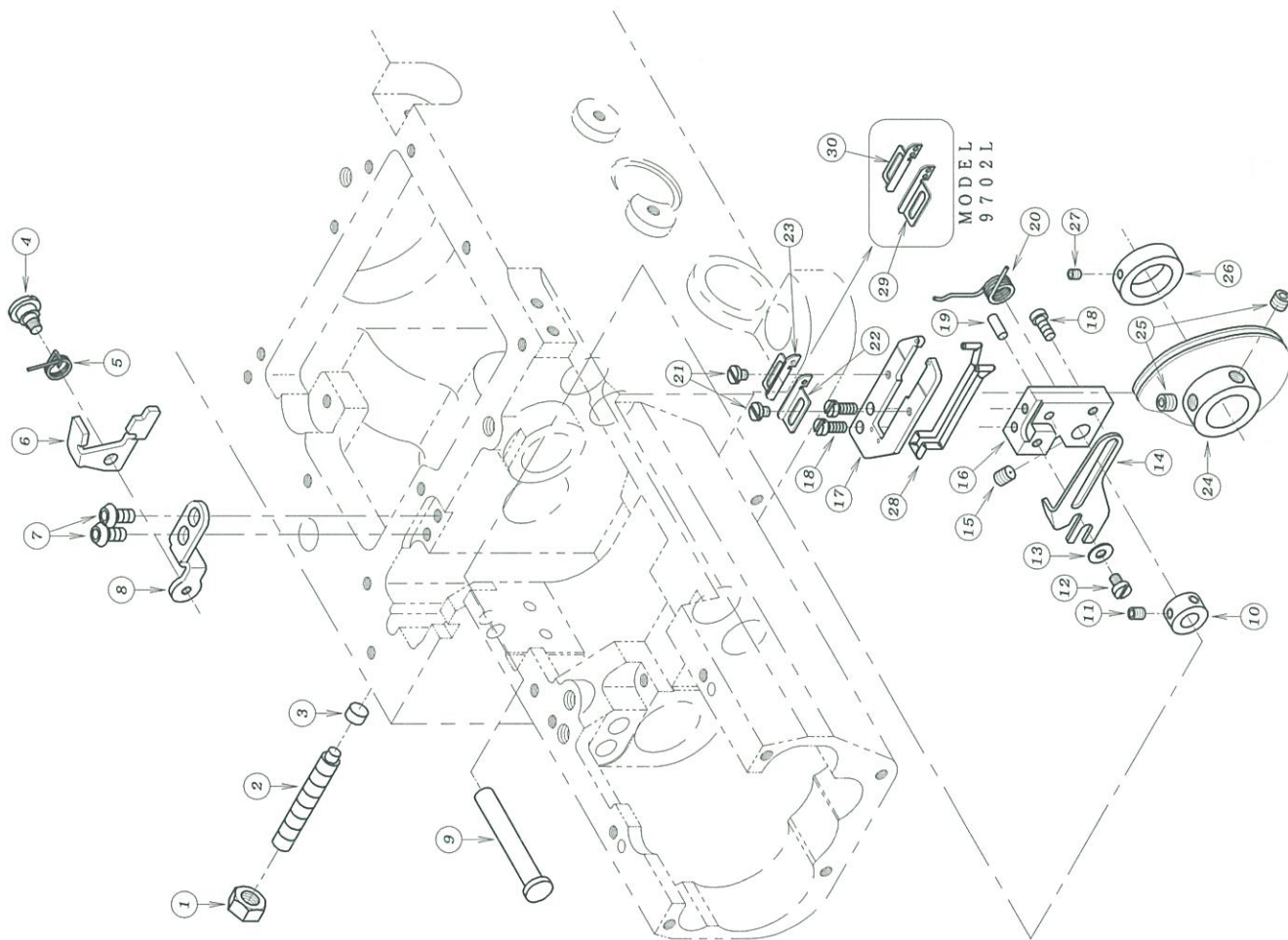
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
08-01	18-805	針受	NEEDLE GUARD	1
08-02	84-155	ネジ	SCREW	2
08-03	18-804	針受ブラケット	BRACKET	1
08-04	87-274	ネジ	SCREW	2
08-05	61-530	針受エキセン	ECCENTRIC	1
08-06	84-616	ネジ	SCREW	1
08-07	18-800	針受レバ	NEEDLE GUARD LEVER	1
08-08	18-801	針ガイトレバ	NEEDLE GUARD LEVER	1
08-09	18-806	針ガ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

9. 送り機構 (2) FEED MECHANISM (2)



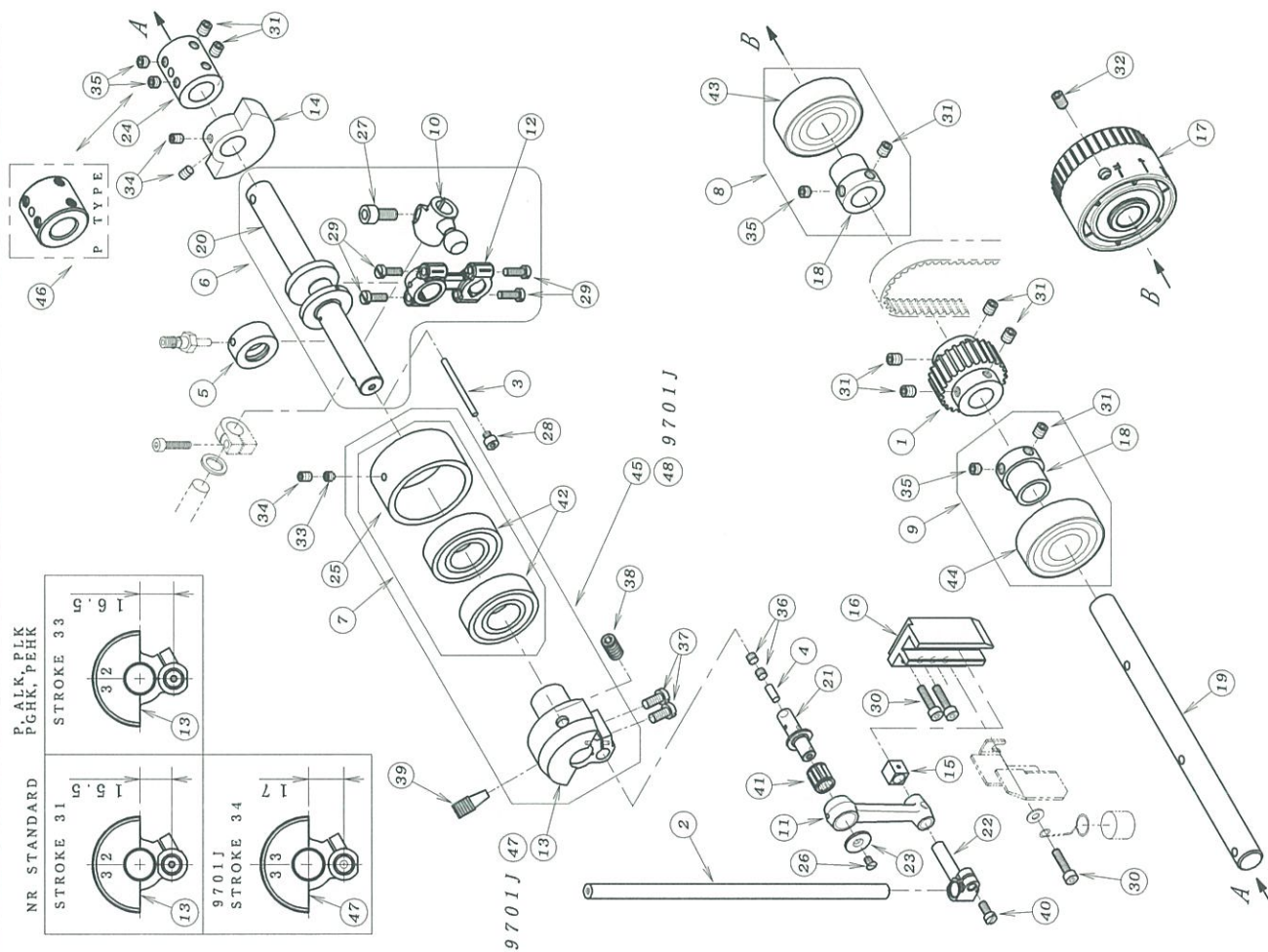
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
09-01	87-172	ネジ	SCREW	5
09-02	67-504	送り上レバ -	FEED LEVER	1
09-03	71-431	ダ ルマ ピ ン	PIN	1
09-04	63-502	送り上下継ぎロッド	CONNECTING ROD	1
09-05	93-402	サークリップ	SNAP RING	2
09-06	91-412	ニード ルベ アー	NEEDLE BEARING	2
09-07	61-505	送りダ ルマ エキセン	FEED ECCENTRIC	1
09-08	84-366	ネジ	SCREW	1
09-09	63-503	送りロッド	CONNECTING ROD	1
09-10	71-518	リングピ ン	PIN	2
09-11	51-817	リンク	LINK	1
09-12	87-233	ネジ	SCREW	3
09-13	51-816	リンク	LINK	1
09-14	69-515	ロッド ガイ ド	CONNECTING ROD GUIDE	1
09-15	87-129	ネジ	SCREW	1
09-16	71-525	リングピ ン	PIN	1
09-17	67-509	送り送りレバ -	FEED LEVER	1
09-18	87-274	ネジ	SCREW	2
09-19	51-808	ナット	NUT	1
09-20	51-811	ブラケット	BRACKET	1
09-21	71-520	ピ ン	PIN	1
09-22	51-812	送りレバ ネ取付ピ ン	PIN	1
09-23	79-527	送りレバ ネ	SPRING	1
09-24	51-809	ブ ヅ ヌ	BUSHING	1
09-25	23-283	オイルシール	O-RING	1
09-26	94-222	オイルシール	OIL SEAL	1
09-27	51-866	送りレバ - 軸	CONTROL LEVER SHAFT	1
09-28	32-281	スプリング ピ ン	SPRING PIN	1
09-29	87-181	ネジ	SCREW	1
09-30	87-212	ネジ	SCREW	1
09-31	51-815	調整ノブ	ADJUSTING KNOB	1
09-32	71-208	ストップ ピ ン	PIN	1
09-33	51-814	送りネジ	SCREW	1
09-34	23-192	オイルシール	O-RING	1
09-35	51-813	ナット	NUT	1
09-36	51-810	リンク	CONTROL LINK	1
09-37	51-865	送りレバ -	DIFFERENTIAL FEED CONTROL LEVER	1
09-38	51-804	ストップ -	STOPPER	1
09-39	51-801	目盛板	FEED GRADUATIONS	1
09-40	51-805	スペ ースカラー	COLLAR	2
09-41	87-265	ネジ	SCREW	2
09-42	75-410	ワッシャ	WASHER	1
09-43	51-806	皿ピ ン	SPRING	1
09-44	87-177	ネジ	BOLT	2
09-45	51-807	送りネジ	SCREW	1
09-46	51-818	引込バ ネ取付ネジ	STUD BOLT	1

10. 下糸捌き機構 LOOPER THREAD MECHANISM



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
10-01	88-166	ナット	NUT	1
10-02	87-229	ネジ	SCREW	1
10-03	23-511	キャップ	CAP	1
10-04	84-174	ネジ	SCREW	1
10-05	79-523	バネ	SPRING	1
10-06	43-513	レバー	LEVER	1
10-07	87-272	ネジ	SCREW	2
10-08	43-506	ストップ台	STOP BRACKET	1
10-09	43-507	取付台軸	SHAFT	1
10-10	75-105	ガラ-	COLLAR	1
10-11	84-314	ネジ	SCREW	1
10-12	84-161	ネジ	SCREW	1
10-13	75-224	ワッシャ	WASHER	1
10-14	43-538	糸案内	CAST-OFF PLATE	1
10-15	84-521	ネジ	SCREW	1
10-16	43-536	ブラケット	BRACKET	1
10-17	43-537	プレート	PLATE	1
10-18	84-155	ネジ	SCREW	3
10-19	71-207	ピン	PIN	1
10-20	79-520	スプリング	SPRING	1
10-21	87-083	ネジ	SCREW	2
10-22	43-512	糸道 (左)	THREAD EYELET (LEFT)	1
10-23	43-510	糸道 (右)	THREAD EYELET (RIGHT)	1
10-24	49-501	ハマグリ	LOOPER THREAD TAKEUP CAM	1
10-25	87-274	ネジ	SCREW	2
10-26	75-511	ガラ-	COLLAR	1
10-27	87-104	ネジ	SCREW	1
10-28	23-319	巻き付き軸にモール	LACED WIRE	1
10-29	43-572	ハマグリ糸道左	THREAD EYELET (LEFT)	1
10-30	43-573	ハマグリ糸道右	THREAD EYELET (RIGHT)	1

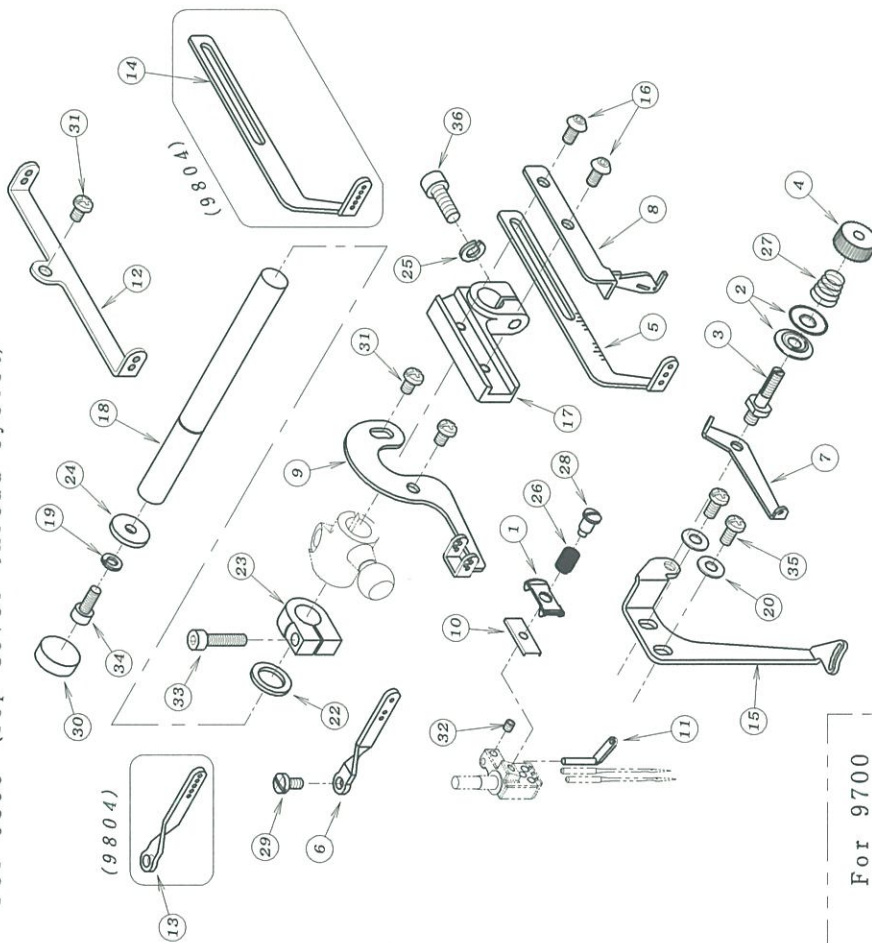
11. 針棒上軸機構 NEEDLE BAR MECHANISM



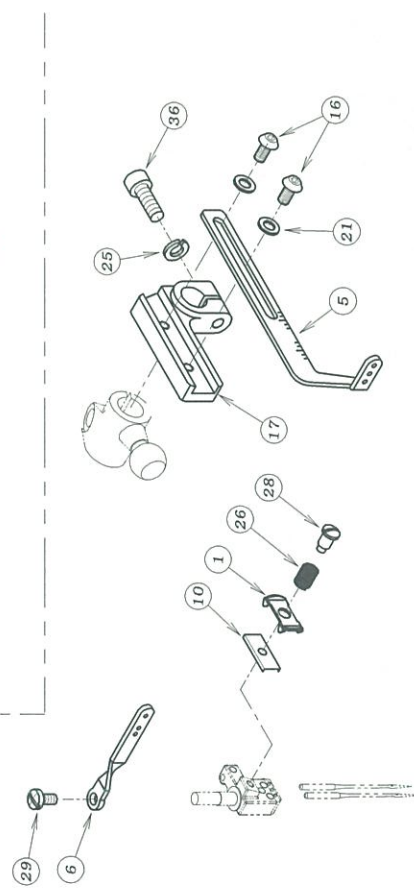
REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
11-01	06-238	タイミングプーリー (L)	TIMING PULLEY	1
11-02	11-409	針棒	NEEDLE BAR	1
11-03	23-063	フェルト	FELT	1
11-04	23-567	フェルト	FELT	1
11-05	35-559	オイルスリーブ	OIL SLEEVE	1
11-06	60-5160	上軸伝動ギョウキセット	CONNECTING ROD ASS'Y	1
11-07	60-8490	ベアリングセット	BEARING ASS'Y	1
11-08	60-8500	ベアリン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

12. 上糸捌き機構 NEEDLE THREAD MECHANISM

For 9800 (Top Cover thread eyelet)

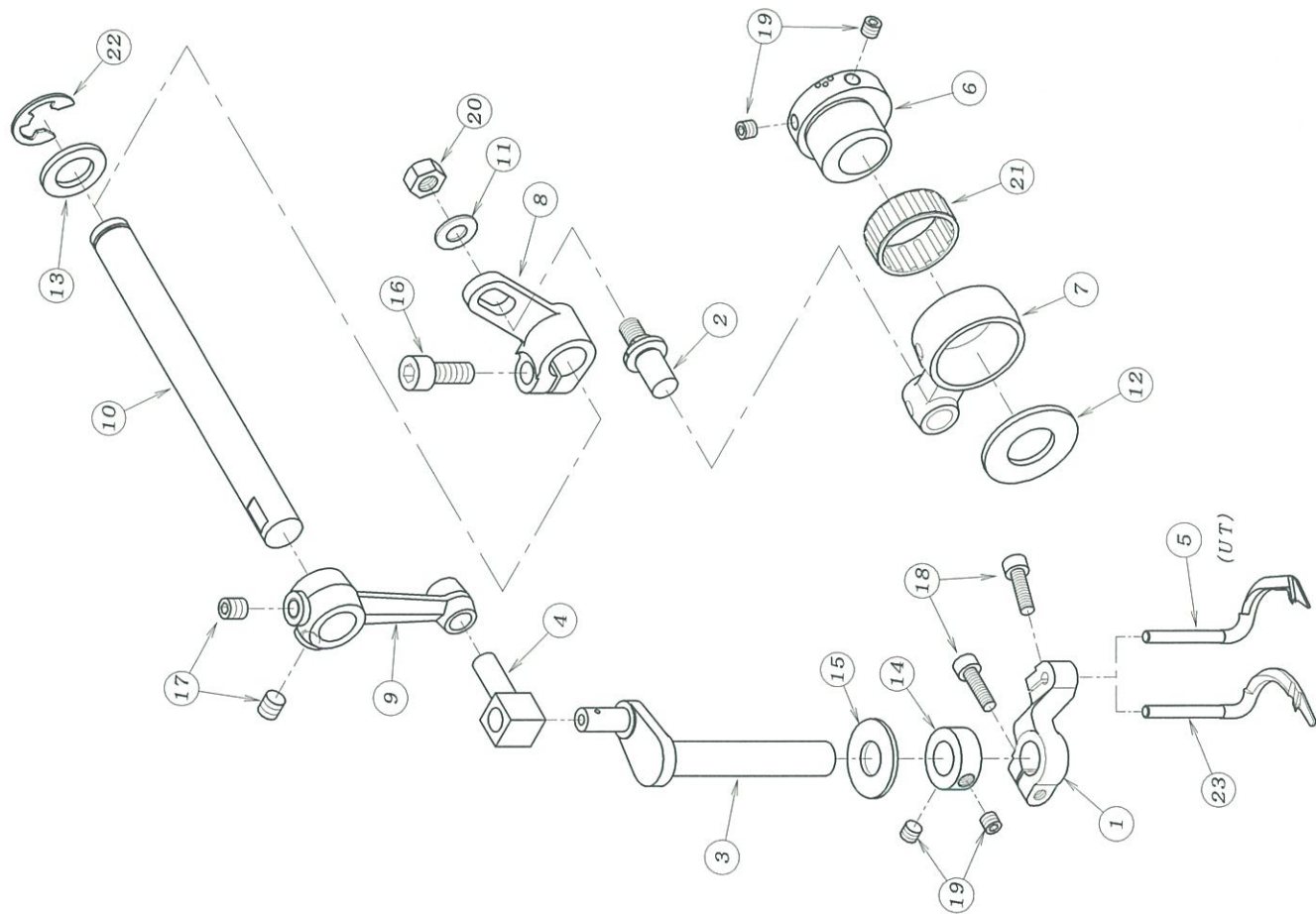


For 9700



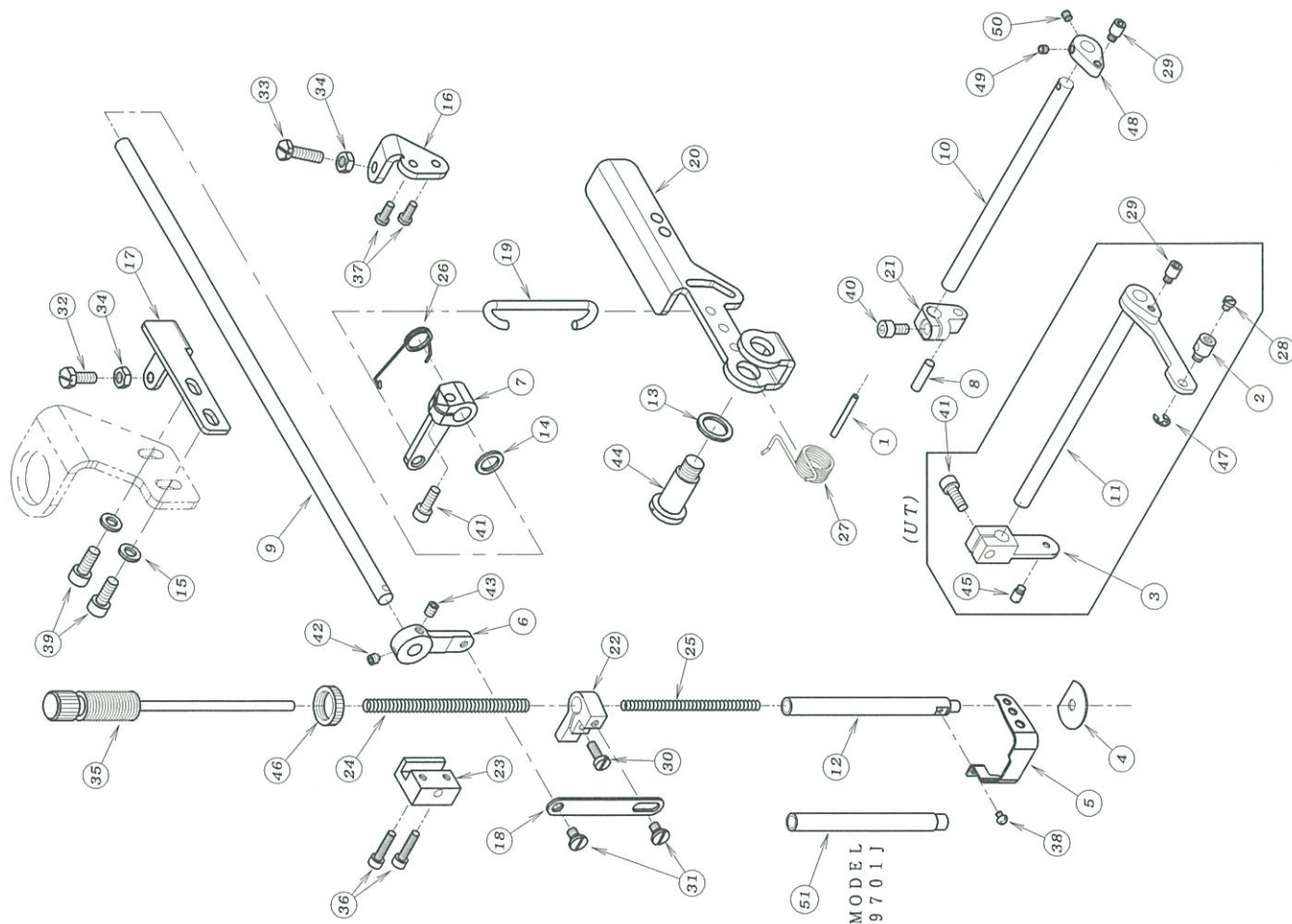
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
12-0141-021	1	カム糸道	THREAD NIPPER	1
12-0241-155	2	チャンボ°ン皿	DISC	1
12-0341-504	1	調子棒	TENSION POST	1
12-0443-568	1	小チャンボ°ンナット	NUT	1
12-0545-032	1	針糸道バネ	NEEDLE THREAD TAKE-UP	1
12-0645-035	1	針糸道	THREAD EYELET	1
12-0745-036	1	針糸道	THREAD EYELET	1
12-0845-502	1	針糸道	THREAD TAKE-UP	1
12-0945-507	1	針糸道	THREAD EYELET	1
12-1045-508	1	針糸道	PLATE	1
12-1145-514	1	針糸道	THREAD EYELET	1
12-1245-515	1	針糸道	THREAD EYELET	1
12-1345-535	1	針糸道	THREAD EYELET	1
12-1445-536	1	針糸道	NEEDLE THREAD TAKE-UP	1
12-1545-540	1	針糸道	BRACKET	1
12-1687-272	2	ネジ°	SCREW	2
12-1767-502	1	針糸道取付台	LEVER	1
12-1871-514	1	針糸道シャフト	SHAFT	1
12-1975-410	1	スワ°リンク°ワッシャ	SPRING WASHER	1
12-2075-455	2	ワッシャ	WASHER	2
12-2175-468	2	ワッシャ	WASHER	2
12-2275-504	1	ワッシャ	WASHER	1
12-2375-505	1	ワッシャ	COLLAR	1
12-2475-508	1	ワッシャ	WASHER	1
12-2575-526	1	スワ°リンク°ワッシャ	SPRING WASHER	1
12-2679-025	1	カム糸道バネ	SPRING	1
12-2779-534	1	ハ°ネ	SPRING	1
12-2884-021	1	ハ°ネカ°イト°ネジ°	SCREW	1
12-2984-374	1	ネジ°	SCREW	1
12-3094-504	1	シールキャップ°	PLUG	1
12-3187-481	3	ブラマイナベ小ねじ	SCREW	3
12-3287-104	1	ネジ°	SCREW	1
12-3387-112	1	六角穴付きボルト	BOLT	1
12-3487-113	1	六角穴付きボルト	BOLT	1
12-3587-482	2	ブラマイナベ小ねじ	SCREW	2
12-3687-224	1	六角穴付きボルト	BOLT	1

13. 上飾り機構 SPREADER DRIVE MECHANISM



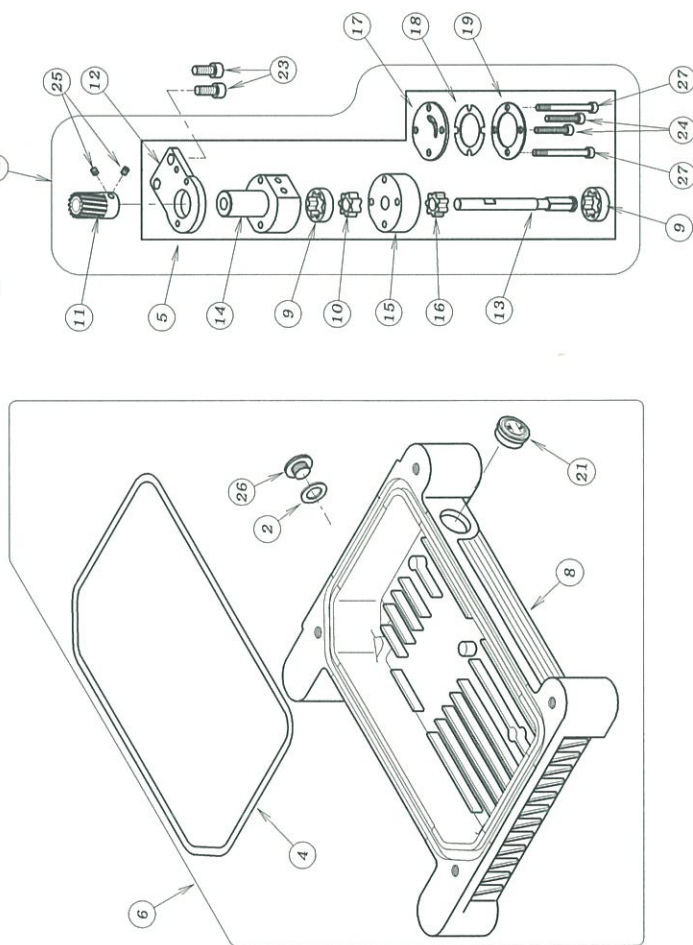
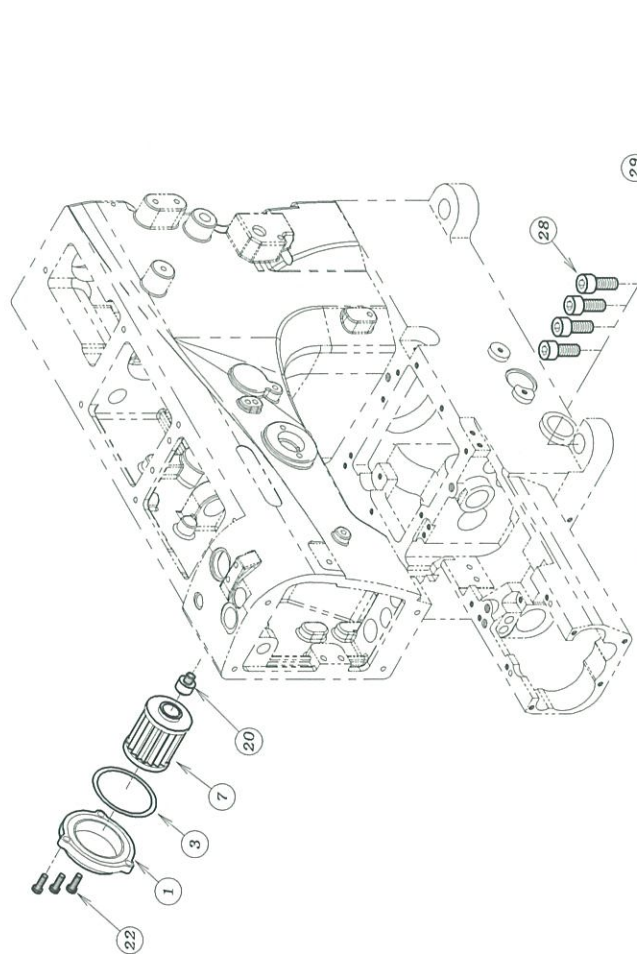
REF.NO.	PART NO.	品名	DESCRIPTION	Q'TY
13-01	04-501	スプレッダーホルダー	HOLDER	1
13-02	04-502	スプレッダーピン	PIN	1
13-03	04-507	スプレッダー	SPREADER	1
13-04	04-508	スプレッダー	SPREADER	1
13-05	19-505	スプレッダー	SPREADER	1
13-06	61-527	スプレッダー	SPREADER	1
13-07	63-500	スプレッダー	SPREADER	1
13-08	67-510	スプレッダー	SPREADER	1
13-09	67-511	スプレッダー	SPREADER	1
13-10	71-513	スプレッダー	SPREADER	1
13-11	75-452	スプレッダー	SPREADER	1
13-12	75-502	スプレッダー	SPREADER	1
13-13	75-509	スプレッダー	SPREADER	1
13-14	75-537	スプレッダー	SPREADER	1
13-15	75-549	スプレッダー	SPREADER	1
13-16	87-171	スプレッダー	SPREADER	1
13-17	87-172	スプレッダー	SPREADER	1
13-18	87-214	スプレッダー	SPREADER	1
13-19	87-274	スプレッダー	SPREADER	1
13-20	88-166	スプレッダー	SPREADER	1
13-21	91-416	スプレッダー	SPREADER	1
13-22	93-202	スプレッダー	SPREADER	1
13-23	19-751	スプレッダー	SPREADER	1

14. 押え揚げ機構 PRESSER FOOT MECHANISM



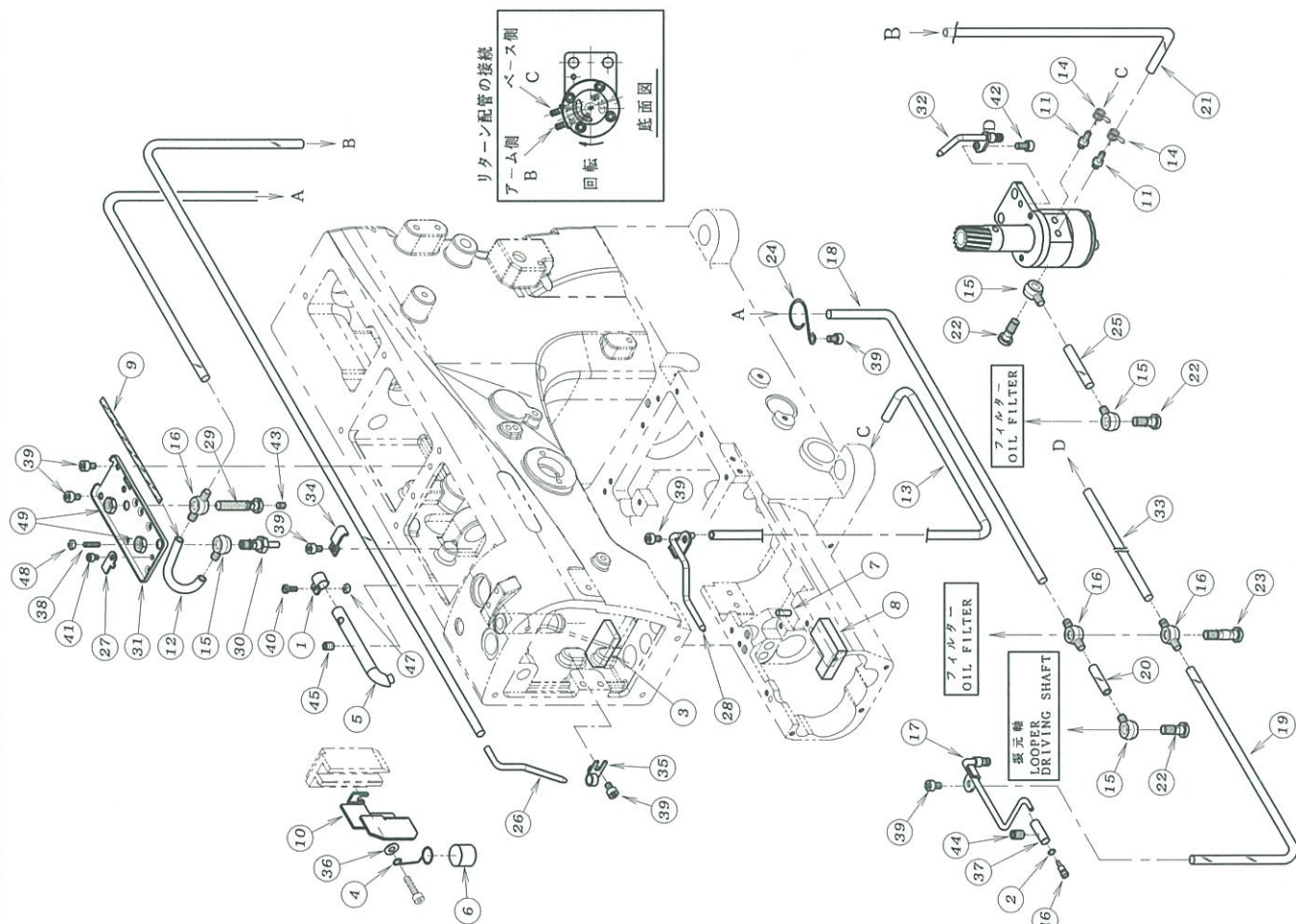
REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
14-01105-404	スプリングピン	SPRING PIN		1
14-02105-853	糸締め連結片	HOLDER		1
14-03105-958	クランクレバ -	LEVER		1
14-04123-018	押え棒通止シール	SEAL		1
14-05127-232	フィンガー - ガート	FINGER GUARD		1
14-06167-036	レバ -	LEVER		1
14-07167-037	レバ -	LEVER		1
14-08171-203	平行ピン	PIN		1
14-09171-278	連動シ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

15 給油機構 (1) LUBRICATION MECHANISM (1)



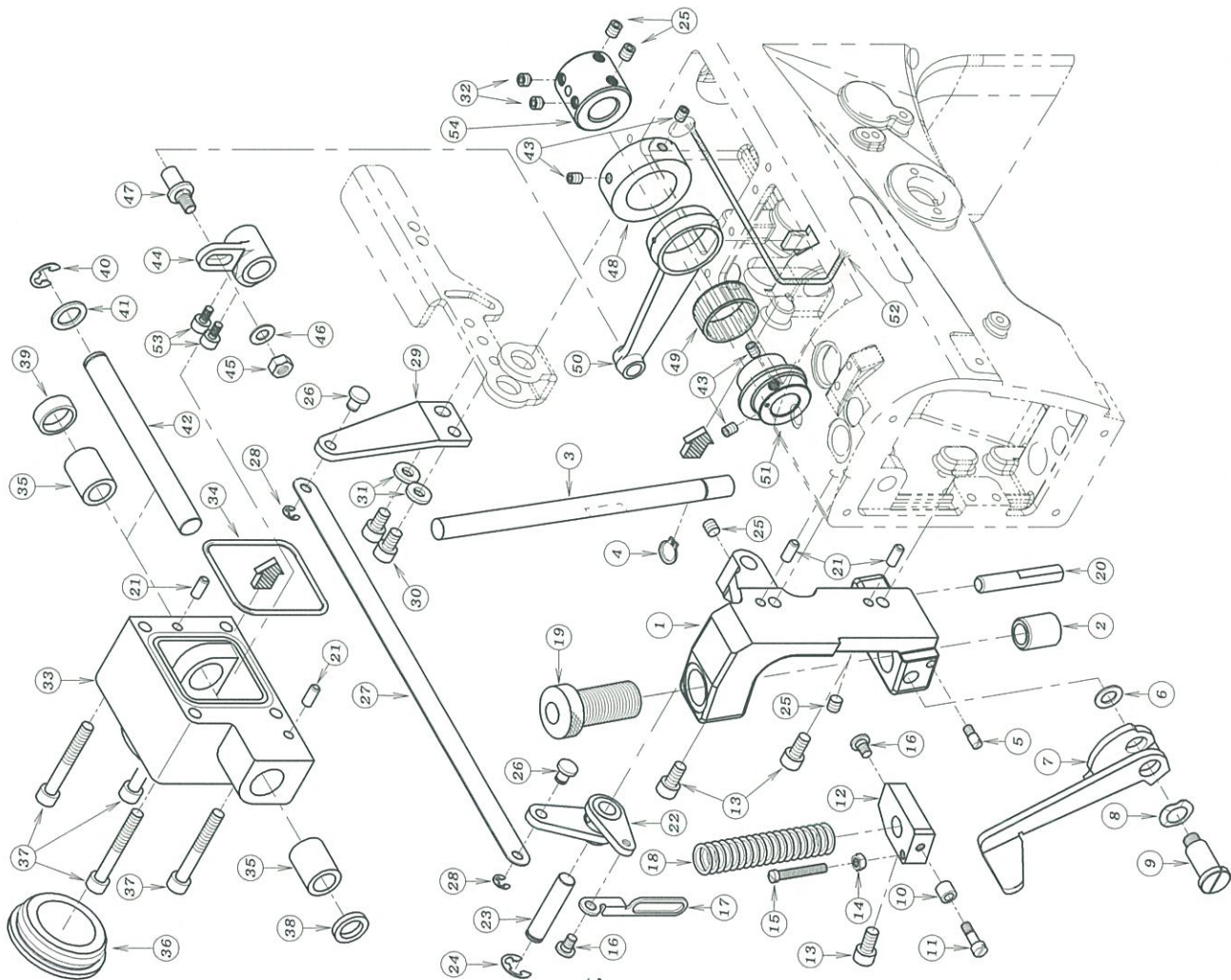
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
15-01	21-632W	オイルフィルターキャップ	OIL FILTER CAP	1
15-02	23-304	シール	SEAL	1
15-03	23-506	O-リング	O-RING	1
15-04	23-508	O-リング	O-RING	1
15-05	30-0019	ポンプセット	PUMP ASS'Y	1
15-06	30-5070	オイルタンクセット	OIL TANK ASS'Y	1
15-07	31-222	フィルター	OIL FILTER	1
15-08	31-507	オイルタンク	OIL RESERVOIR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

16 給油機構 (2) LUBRICATION MECHANISM (2)



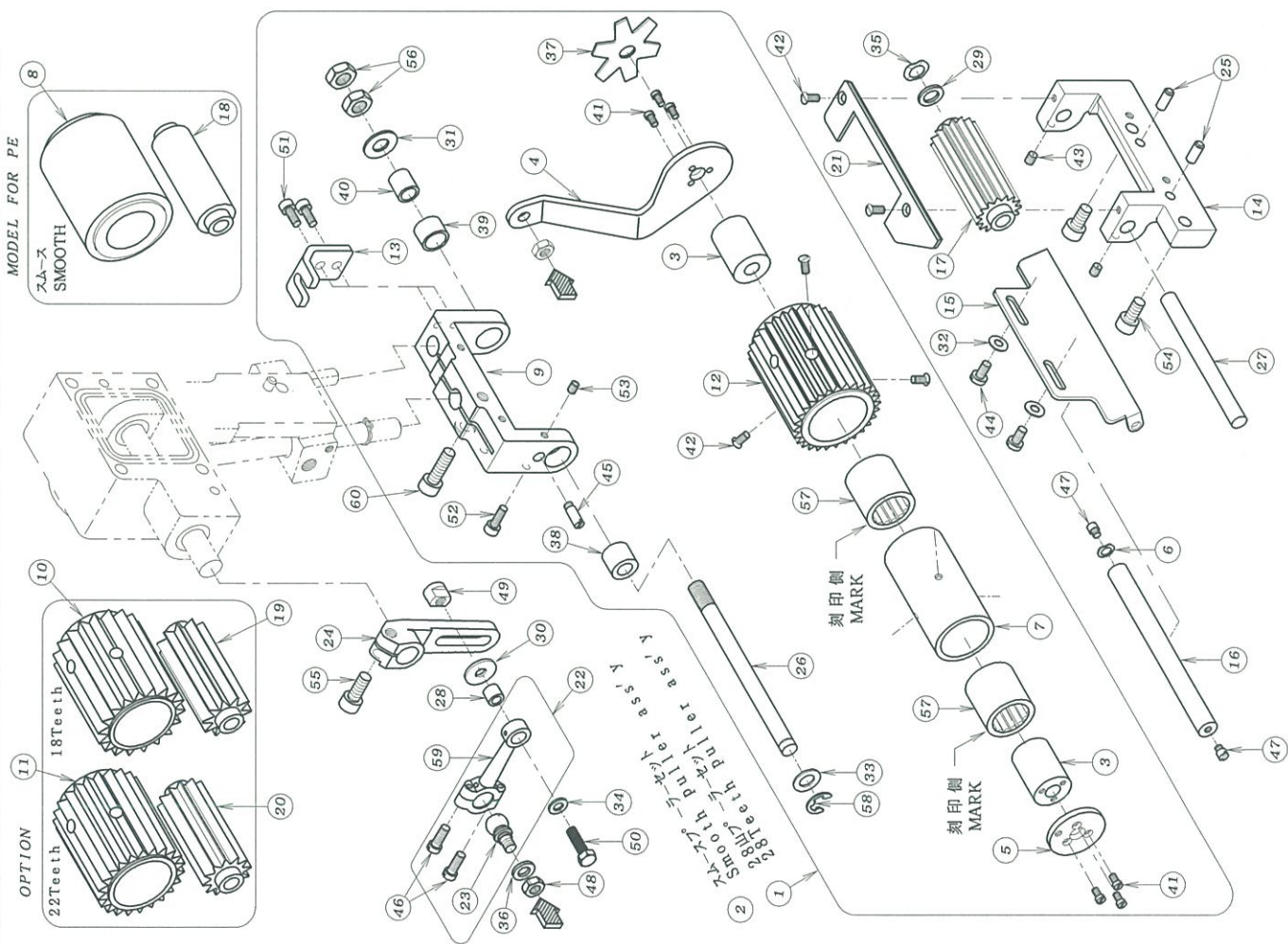
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
16-01	07-008	調節バンド	BAND	1
16-02	23-373	O-RING	O-RING	1
16-03	23-386	フェルト	FELT	1
16-04	23-558	給油サポ-ート	SUPPORT	1
16-05	23-560	給油ハ-イプ	PIPE	1
16-06	23-562	スポンジ	SPONGE	1
16-07	23-567	フェルト	FELT	1
16-08	23-571	フェルト	FELT	1
16-09	23-574	フェルト	FELT	1
16-10	27-301	オイルフエンス	OIL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

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



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

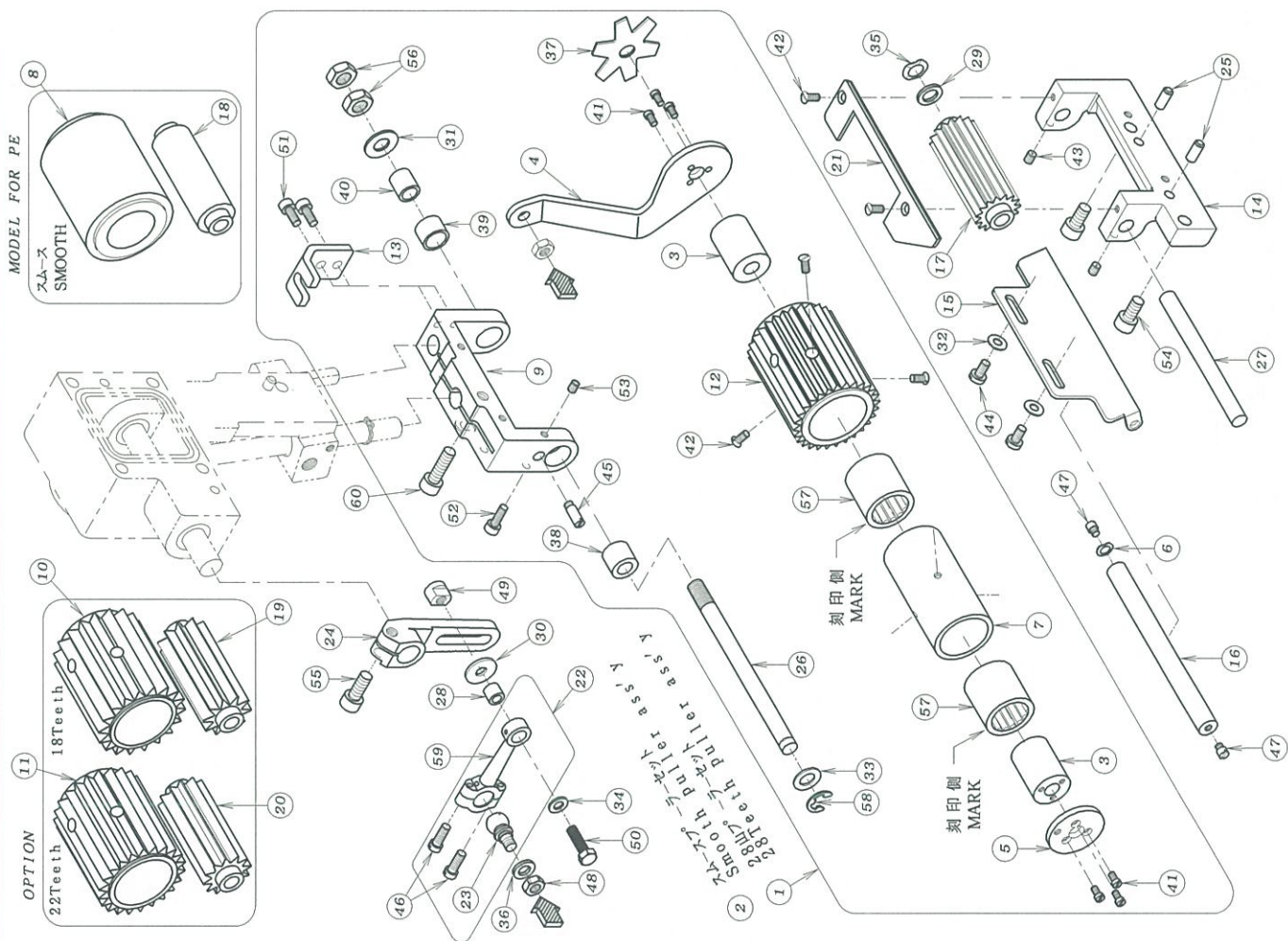
18. 後プーラー機構 (2-1) REAR PULLER MECHANISM (2-1)



REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
18-01100-3282	28山プーラーセット	28TEETH REAR PULLER ASS' Y	1	
18-02100-2008	スムーズプーラーセット	SMOOTH PULLER ASS' Y	1	
18-03101-1115	スリーブ	SLEEVE	2	
18-04102-0117	後プーラー-連結板	CONNECTING PLATE	1	
18-05102-1117	後プーラー-板ハ・イフ・フタ	PLATE	1	
18-06102-1118	被ワッシャ	WASHER	1	
18-07102-1213	リンクエイトラッチ用ハウジング' (中)	CLUTCH HOUSING	1	
18-08102-136	スムーズ (中)	REAR PULLER (SMOOTH)	1	
18-09102-158	後プーラー-台	REAR PULLER HOLDER	1	
18-10102-176	後プーラー-上ギヤ-18山	UPPER REAR PULLER18	1	
18-11102-177	後プーラー-上ギヤ-22山	UPPER REAR PULLER22	1	
18-12102-178	後プーラー-上ギヤ-28山	UPPER REAR PULLER28	1	
18-13102-250	回り止プ' ラケット	BRACKET	1	
18-14102-252W	下プーラー-土台	PLATE	1	
18-15102-253	補助ローラー-取付板	PLATE	1	
18-16102-254	補助ローラー	ROLLER	1	
18-17102-255	後プーラー-下 (15山)	LOWER REAR PULLER GEAR (15 TEETH)	1	
18-18102-451	下ローラースムーズ	REAR PULLER (SMOOTH)	1	
18-19102-452	下ローラー (10山)	REAR PULLER GEAR (10TEETH)	1	
18-20102-453	下ローラー (12山)	REAR PULLER GEAR (12TEETH)	1	
18-21121-715	下プーラー-カ' イト'	PULLER GUIDE	1	
18-22160-8090	プーラー-連結ロットセット	CONNECTING ROD ASS' Y	1	
18-23161-810	プーラー-連結ロット' 玉	CONNECTING ROD BALL	1	
18-24167-529	上プーラー-駆動レバー	LEVER	1	
18-25171-208	ノックピン	PIN	2	
18-26171-444	後プーラー-台ジャブト (中)	SHAFT	1	
18-27171-728	後プーラー-下ジャブト	LOWER REAR PULLER SHAFT	1	
18-28175-247	連結メカ' ネローラー	ROLLER	1	
18-29175-356	ワッシャ	WASHER	1	
18-30175-407	ワッシャ	WASHER	1	
18-31175-451	ワッシャ	WASHER	1	
18-32175-455	ワッシャ	WASHER	2	
18-33175-519	ワッシャ	WASHER	1	
18-34175-520	ワッシャ	WASHER	1	
18-35175-528	被塵金	WASHER	1	
18-36175-552	ワッシャ	WASHER	1	
18-37179-551	プーラー-板ハ' ネ	PULLER PLATE SPRING	1	
18-38179-321	ブッシュ	BUSHING	1	
18-39181-322	ブッシュ	BUSHING	1	
18-40181-323	ブッシュ	BUSHING	1	
18-41184-162	ネジ'	SCREW	6	
18-42184-462	ネジ'	SCREW	5	
18-43184-521	ネジ'	SCREW	2	
18-44184-571	ネジ'	SCREW	2	
18-45184-573	段ネジ'	SCREW	1	
18-46184-635	ネジ'	SCREW	2	
18-47185-607	段ネジ'	SCREW	2	
18-48186-411	ナット	NUT	1	
18-49188-005	ナット	NUT	1	
18-50187-015	ネジ	SCREW	1	
18-51187-113	六角穴付きボルト	BOLT	2	
18-52187-129	六角穴付きボルト	BOLT	1	
18-53187-181	ネジ'	SCREW	1	
18-54187-225	六角穴付きボルト	BOLT	2	
18-55187-171	六角穴付きボルト	BOLT	1	
18-56188-179	ナット	NUT	2	

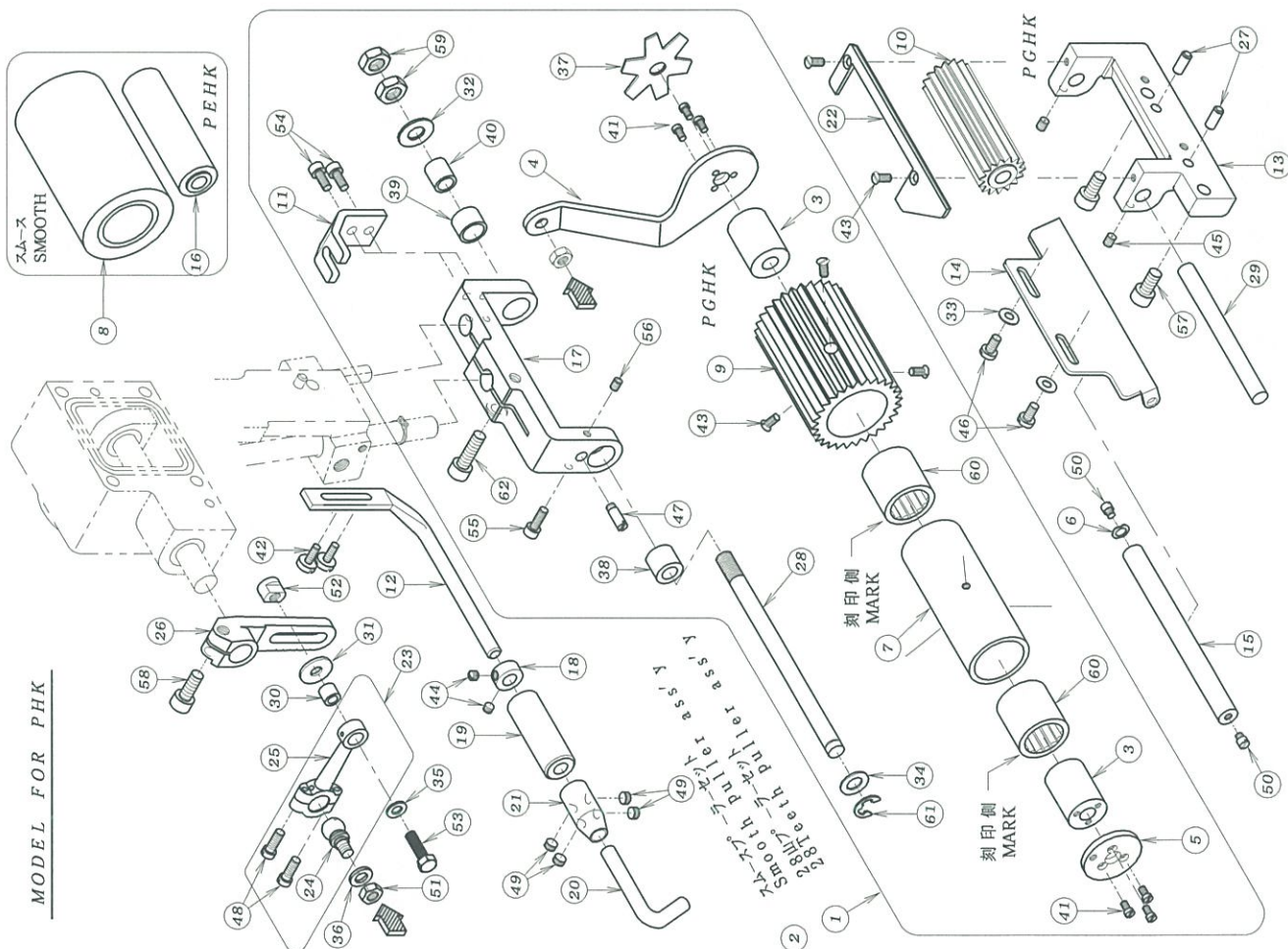
18. 後プーラー機構 (2-2) REAR PULLER MECHANISM (2-2)

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



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

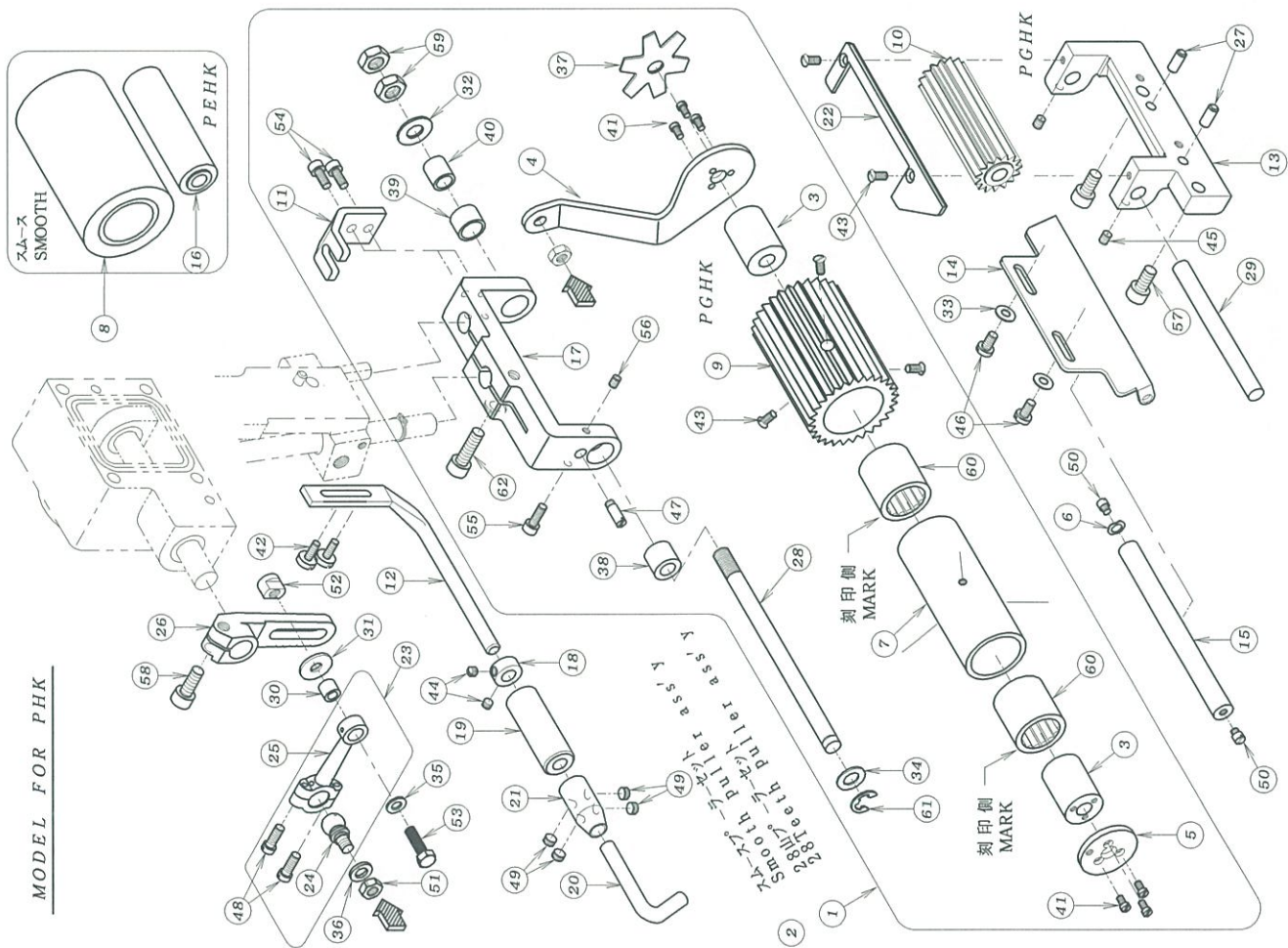
MODEL FOR PHK



REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
19-01100-4280	28山プーラーセット	28 TOOTH REAR PULLER ASS'Y	1	
19-02100-4283	スルスプーラーセット	SMOOTH PULLER ASS'Y	1	
19-03101-115	スリーブ	SLEEVE	2	
19-04102-018	後プーラー連結板	CONNECTING PLATE	1	
19-05102-117	後プーラーハブイフ°フタ	PLATE	1	
19-06102-118	後ワッシャ	WASHER	1	
19-07102-124	ワッシャ	HOUSING	1	
19-08102-138	後プーラー (コ'ム)	REAR PULLER	1	
19-09102-228	後プーラー上28山	REAR PULLER GEAR (28 TEETH)	1	
19-10102-245	後プーラー下15山	LOWER REAR PULLER GEAR (15 TEETH)	1	
19-11102-246	回り止プ°ラケット	BRACKET	1	
19-12102-247	コ'ムカ'イト'軸	ELASTIC TAPE GUIDE SHAFT	1	
19-13102-252W	下プ°ラー上台	BRACKET	1	
19-14102-253	補助ローラー取付板	PLATE	1	
19-15102-254	補助ローラー	ROLLER	1	
19-16102-455	下ローラースムース	REAR PULLER (SMOOTH)	1	
19-17102-159	後プ°ラー台	BRACKET	1	
19-18109-917	カラー	COLLAR	1	
19-19109-919	コ'ムカ'イト'ローラー	TAPE GUIDE	1	
19-20109-923	フ°ラーコ'ムカ'イト'	ELASTIC GUIDE	1	
19-21109-984	コ'ムカ'イト'止めカラー	END COLLAR	1	
19-22127-038	下フ°ラーカ'イト'	PULLER GUIDE	1	
19-23160-8090	フ°ラー連結ロッド'セット	CONNECTING ROD ASS'Y	1	
19-24161-810	フ°ラー連結ロッド'玉	CONNECTING ROD BALL	1	
19-25163-809	プ°ラー連結ロッド	BALL JOINT	1	
19-26167-529	上プ°ラー駆動レバー	LEVER	1	
19-27171-208	ノックピン	PIN	2	
19-28171-445	後プ°ラー台シャフト (大)	SHAFT	1	
19-29171-728	後プ°ラー下シャフト	LOWER REAR PULLER SHAFT	1	
19-30175-247	連結メカ'ネローラー	ROLLER	1	
19-31175-407	ワッシャ	WASHER	1	
19-32175-451	ワッシャ	WASHER	1	
19-33175-455	ワッシャ	WASHER	2	
19-34175-519	ワッシャ	WASHER	1	
19-35175-520	ワッシャ	WASHER	1	
19-36175-552	ワッシャ	WASHER	1	
19-37179-551	フ°ラー板ハ'ネ	PULLER PLATE SPRING	1	
19-38181-321	ブッシュ	BUSHING	1	
19-39181-322	ブッシュ	BUSHING	1	
19-40181-323	ブッシュ	BUSHING	1	
19-41184-162	ネジ'	SCREW	6	
19-42184-368	ネジ'	SCREW	2	
19-43184-462	ネジ'	SCREW	5	
19-44184-511	ネジ'	SCREW	2	
19-45184-521	ネジ'	SCREW	2	
19-46184-571	ネジ'	SCREW	2	
19-47184-573	段ネジ'	SCREW	1	
19-48184-635	ネジ'	SCREW	2	
19-49184-711	ネジ'	SCREW	4	
19-50185-607	段ネジ'	SCREW	2	
19-51186-411	ナット	NUT	1	
19-52188-005	ナット	NUT	1	
19-53187-015	ネジ	SCREW	1	
19-54187-113	六角穴付きボルト	BOLT	2	
19-55187-129	六角穴付きボルト	BOLT	1	
19-56187-181	ネジ'	SCREW	1	

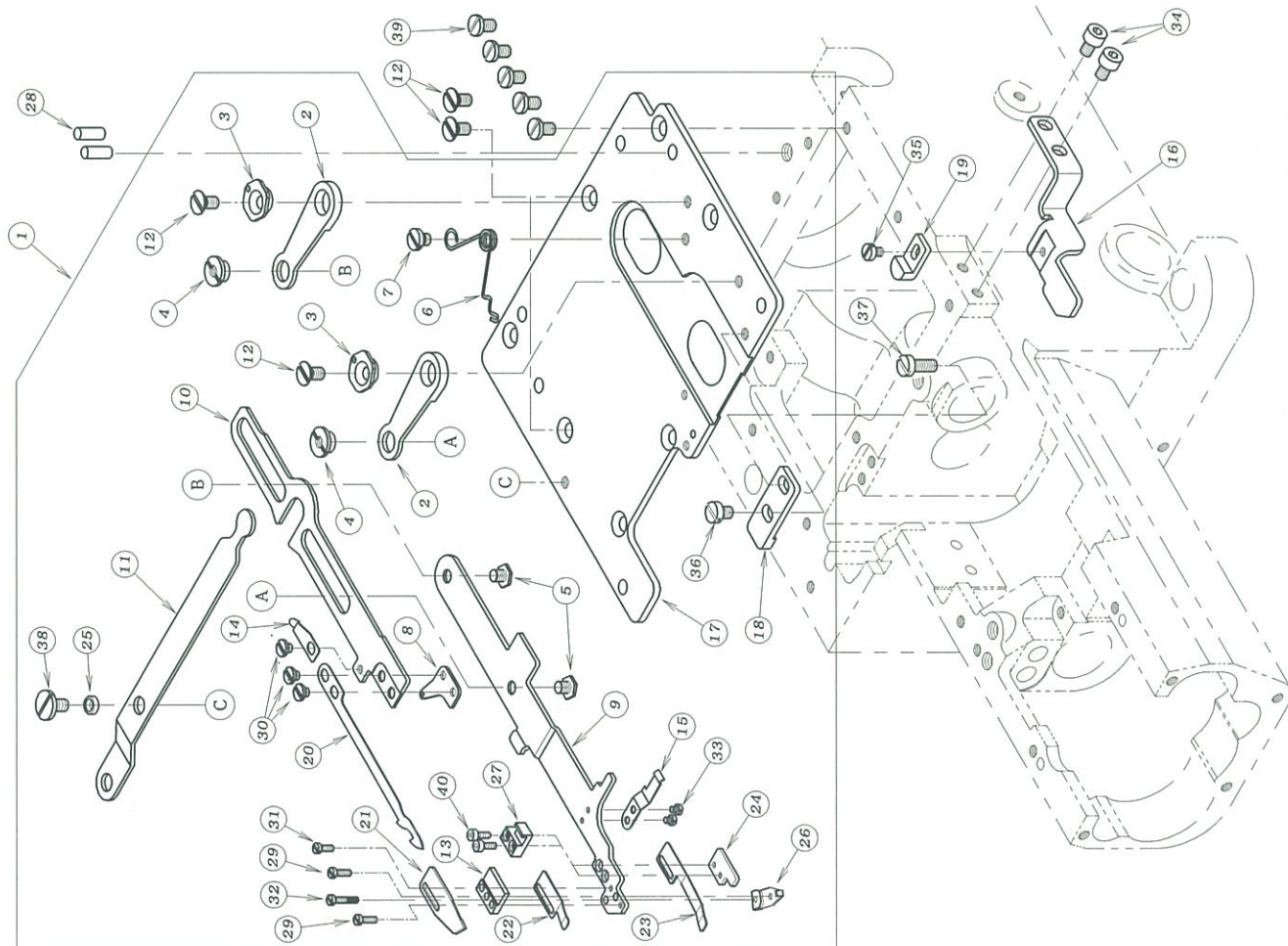
19. 後プーラー機構 (3-2) REAR PULLER MECHANISM (3-2)

MODEL FOR PHK



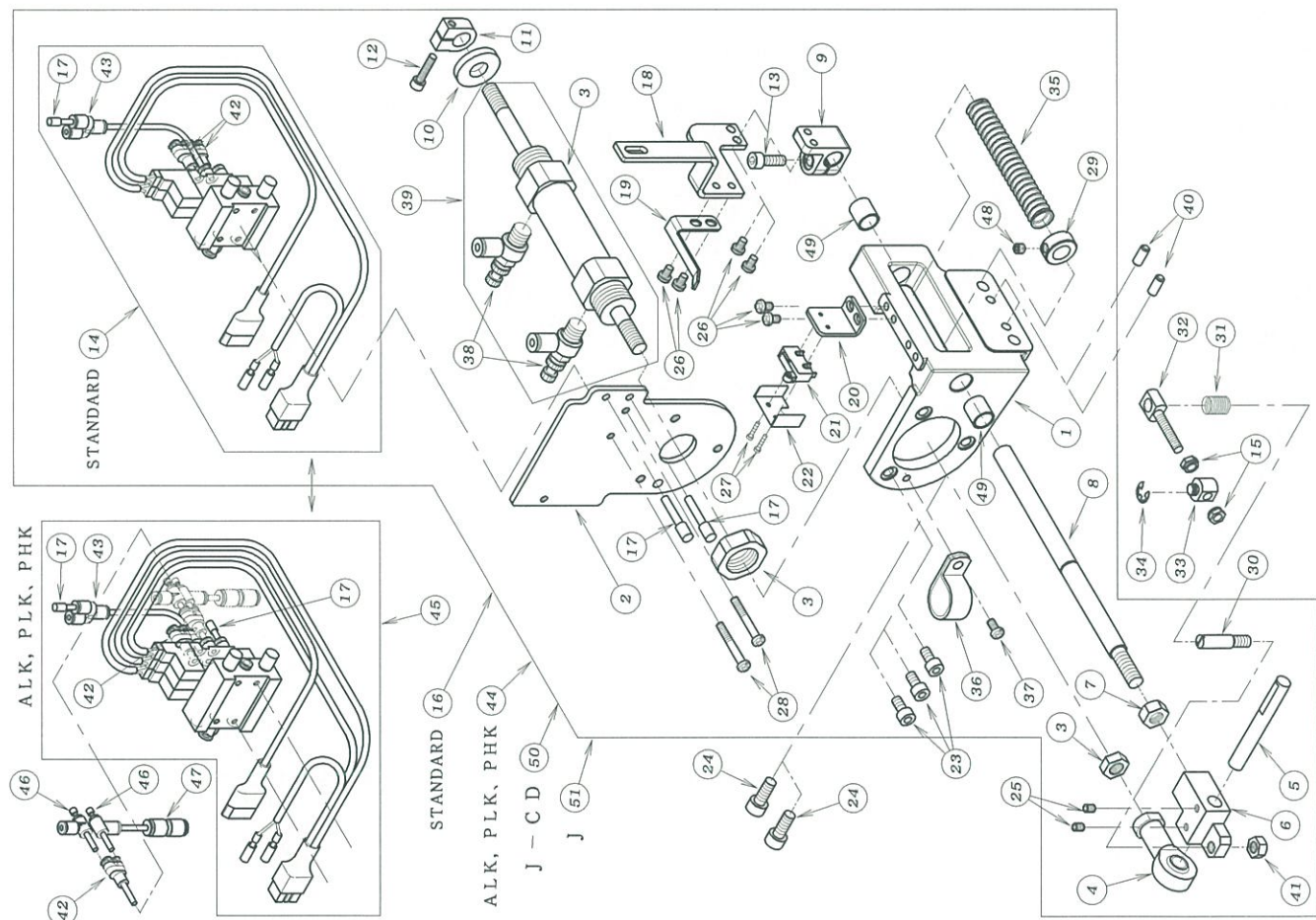
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
19-57	87-225	六角穴付きボルト	BOLT	2
19-58	87-171	六角穴付きボルト	BOLT	1
19-59	88-179	ナット	NUT	2
19-60	91-407	ワンウェイクラッチ	BEARING	2
19-61	93-221	ストップ・リンク	E-RING	1
19-62	87-173	六角穴付きボルト	BOLT	1

20. 下糸切り装置 (UT) KNIFE MECHANISM (UT)



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

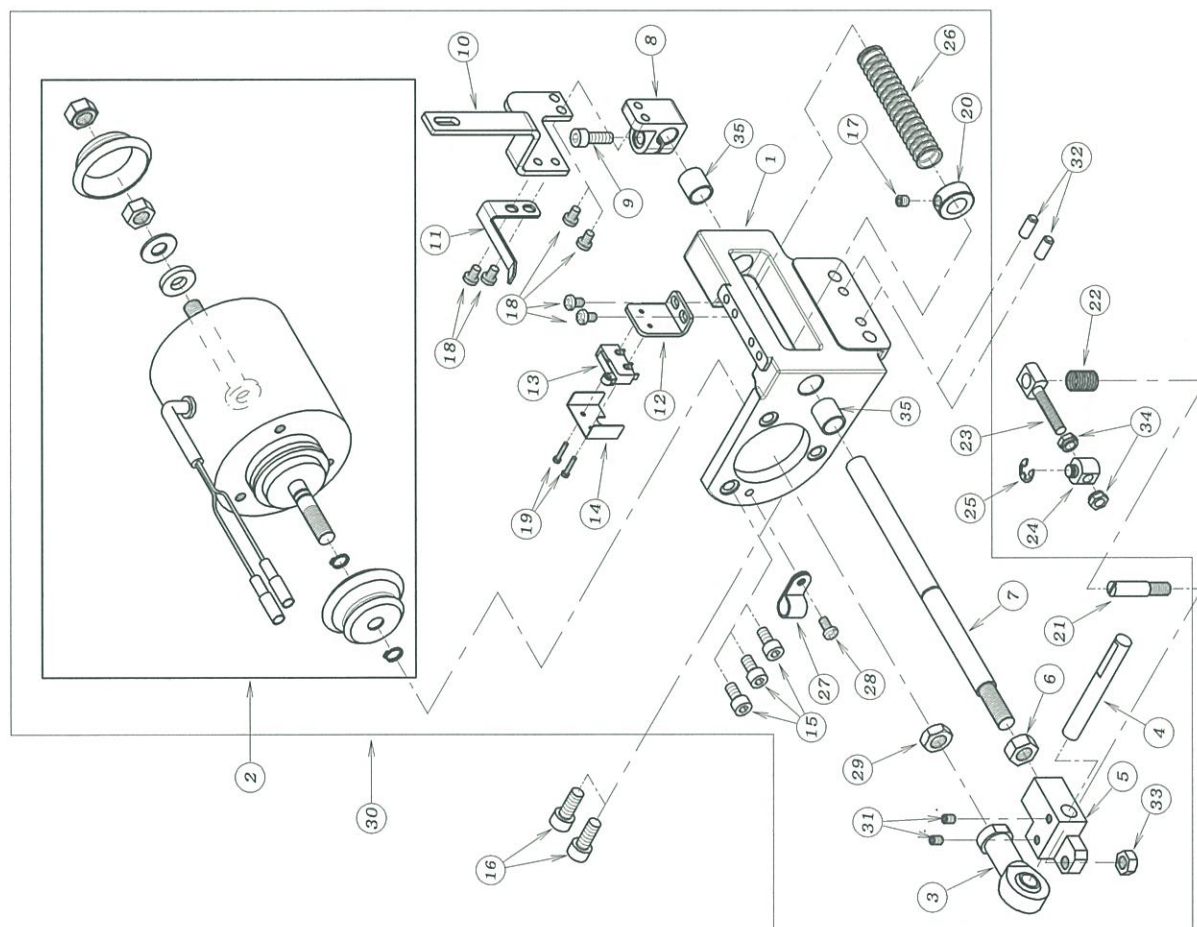
21. UT 調整装置 (エア-式) THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)



REF. NO.	PART NO.	品 名	DESCRIPTION	Qty
21-01	05-901	シリンダ - 取付ブラケット	BRACKET	1
21-02	05-646	シリンダ - 取付板	PLATE	1
21-03	05-205	メス調整シリンダ -	CYLINDER	1
21-04	05-842	ロッドエンド	ROD	1
21-05	05-904	連結シャフト	SHAFT	1
21-06	05-828	連結ブラケット	BRACKET	1
21-07	88-176	ナット	NUT	1
21-08	05-905	戻しシャフト	SHAFT	1
21-09	05-927	レバ - 取付台	BRACKET	1
21-10	05-907	クッションゴム	SHOCK RUBBER	1
21-11	05-220	クッションスツパー	COLLAR	1
21-12	87-245	ネジ	SCREW	1
21-13	87-245	六角穴付きボルト	BOLT	1
21-14	05-647	電磁弁2連セット	SOLENOID VALVE ASSEMBLY	1
21-15	88-004	調整ナット	NUT	2
21-16	00-6114	UT調整装置	AIR CYLINDER ASSEMBLY	1
21-17	06-597	プラグ	PLUG	3
21-18	05-226	糸巻調整プレート	PLATE	1
21-19	05-294	スイッチガイド	SWITCH PLATE	1
21-20	05-910	スイッチ取付板	PLATE	1
21-21	05-911	スイッチ	SWITCH	1
21-22	05-912	スイッチカバー	COVER	1
21-23	87-213	ネジ	SCREW	3
21-24	87-171	ネジ	SCREW	2
21-25	87-181	ネジ	SCREW	2
21-26	87-481	プライマベネジ	SCREW	6
21-27	87-282	十字穴付ネジ 小ネジ	SCREW	2
21-28	87-488	プライマベネジ	SCREW	2
21-29	75-537	カラー	COLLAR	1
21-30	05-829	連結ピン (2)	PIN	1
21-31	79-540	連結ピン用スプリング	SPRING	1
21-32	05-913	連結ネジ	SCREW	1
21-33	05-045	連結ピン	PIN	1
21-34	93-211	スプリング	E RING	1
21-35	79-644	戻しバネ	SPRING	1
21-36	06-927	ナイロンクリップ	CORD CLAMP	1
21-37	87-482	プライマベネジ	SCREW	1
21-38	06-580	スピードコントロール	SPED CONTROLLER	2
21-39	00-6083	メス調整シリンダ - セット	CYLINDER ASS' Y	1
21-40	71-208	ロックピン	PIN	2
21-41	88-166	ナット	NUT	1
21-42	05-484	プランチユニオンワイ	JOINT	2~3
21-43	05-482	ユニオンワイ	JOINT	1
21-44	00-6121	UT調整装置	AIR CYLINDER ASSEMBLY	1
21-45	05-648	電磁弁3連セット	SOLENOID VALVE ASSEMBLY	1
21-46	05-221	スピードコントロール	SPEED CONTROLLER	2
21-47	05-224	黒鉛ストレータ	JOINT	1
21-48	87-274	ネジ	SCREW	1
21-49	81-588	フック	BUSHING	2
21-50	00-6140	UT調整装置	AIR CYLINDER ASSEMBLY	1
21-51	00-6123	UT調整装置	AIR CYLINDER ASSEMBLY	1

22. UT駆動装置 (電気式)

THREAD TRIMMING MECHANISM (ELECTRIC TYPE)

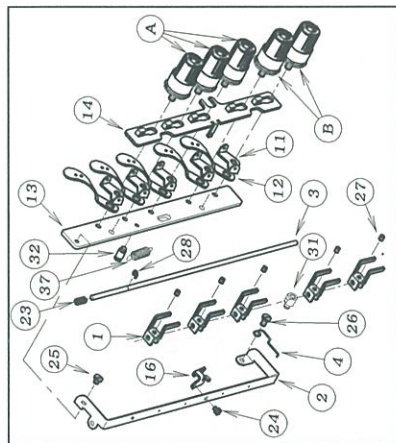


REF. NO.	PART NO.	品名	DESCRIPTION	Q'TY
22-01	05-901	シリンダ-取付ブラケット	BRACKET	1
22-02	06-336	メス用ソレノイド	SOLENOID	1
22-03	05-842	ロッドエンド	ROD	1
22-04	05-904	連結シャフト	SHAFT	1
22-05	05-828	連結ブラケット	BRACKET	1
22-06	88-176	ナット	NUT	1
22-07	05-905	戻しシャフト	SHAFT	1
22-08	05-927	レバ-取付台	BRACKET	1
22-09	87-245	六角穴付きボルト	BOLT	1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

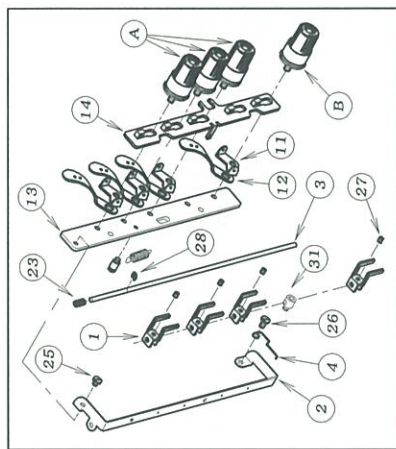
23. 糸調子機構 (UT) THREAD TENSION MECHANISM (UT)

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

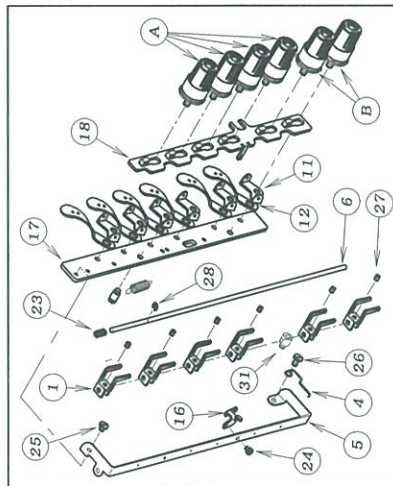
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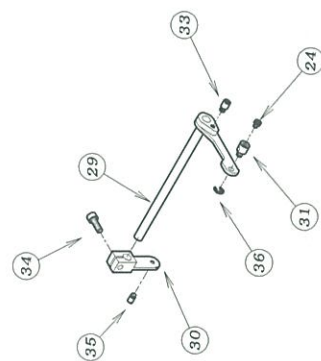
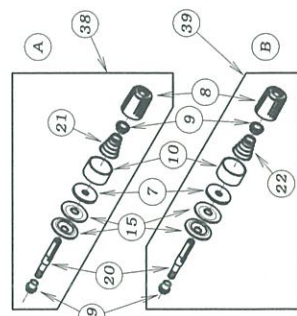
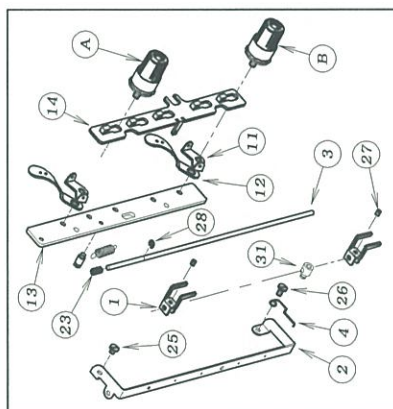
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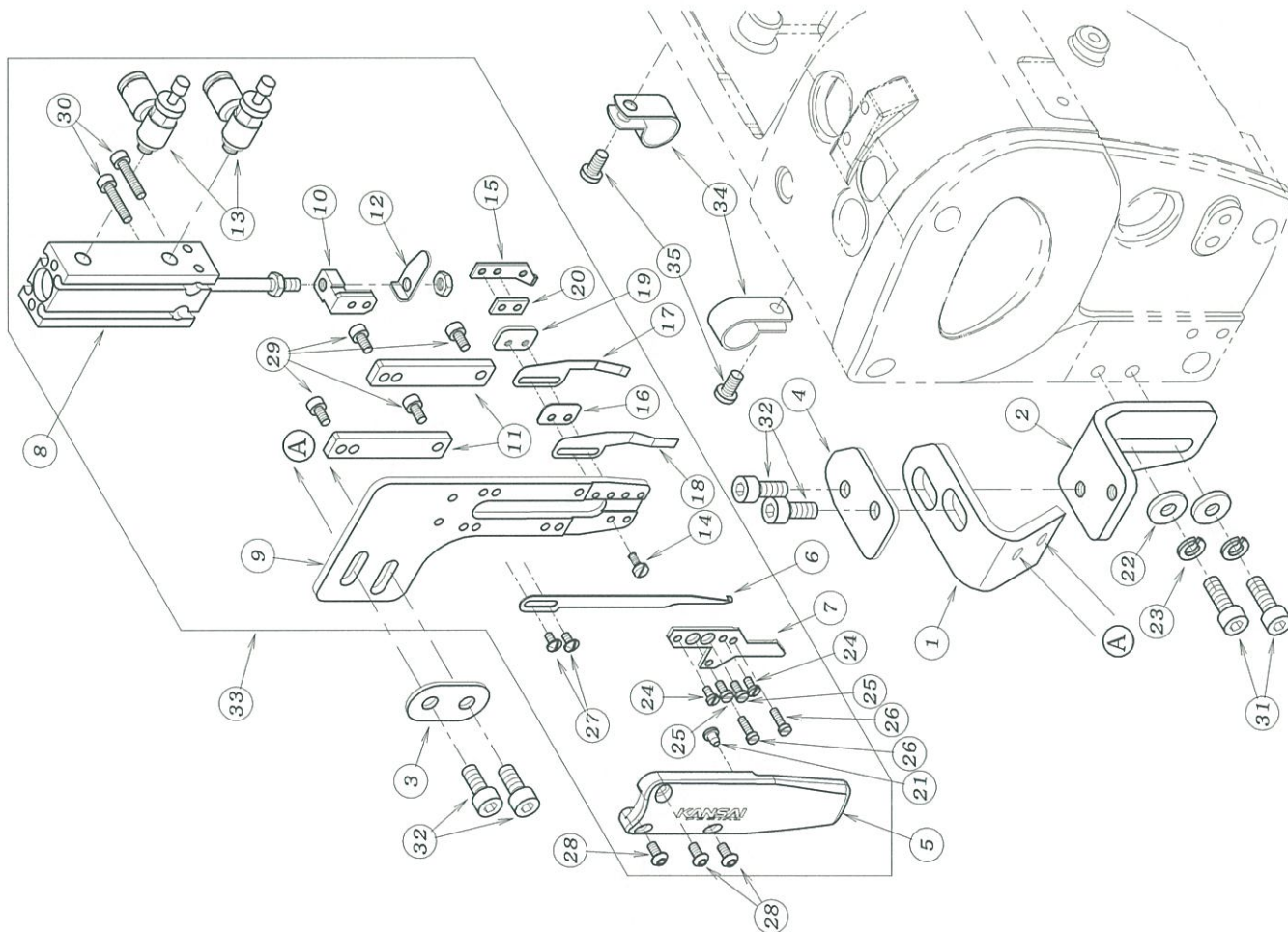


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24. 上飾り糸切装置 (エア-式)

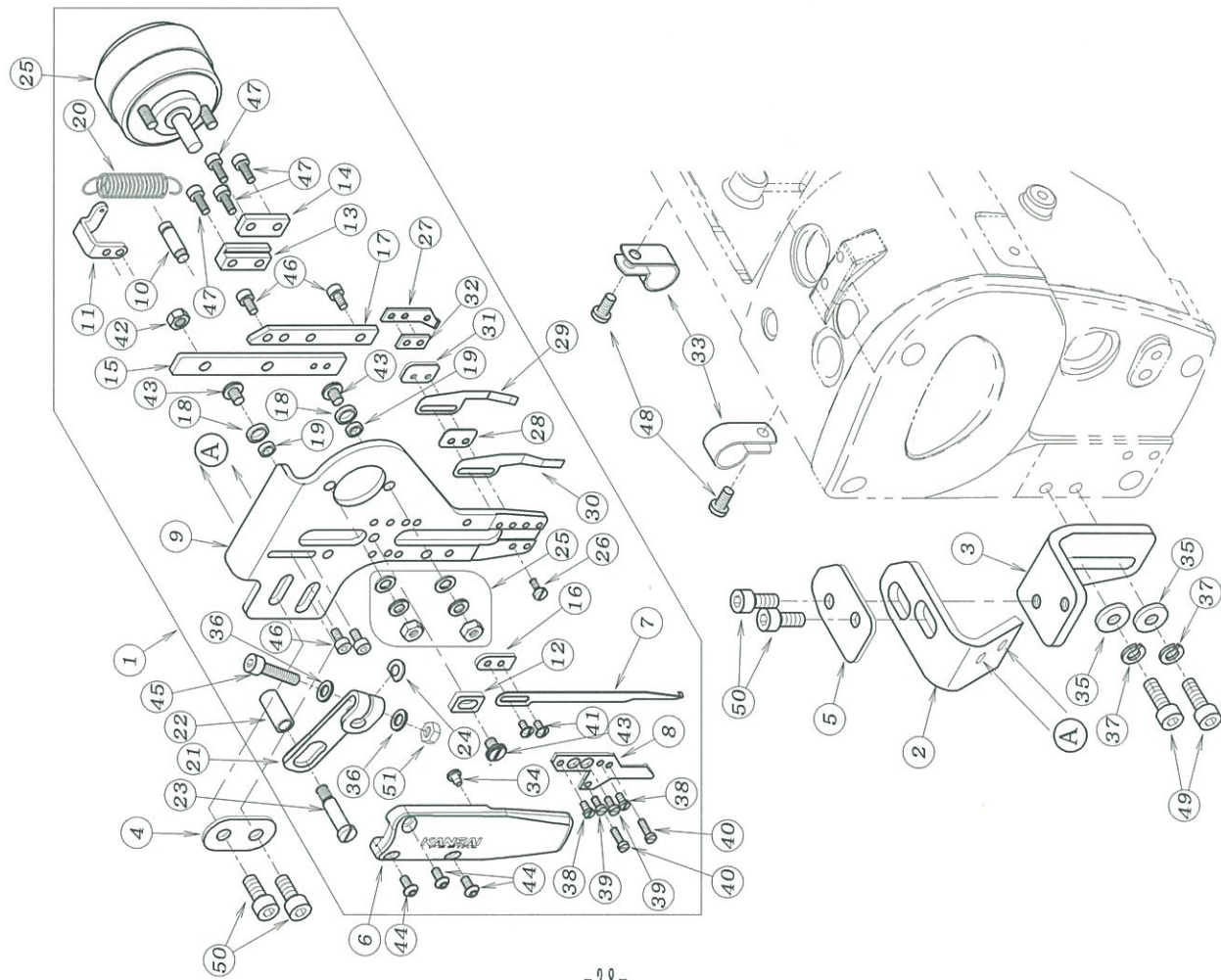
SPREADER THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)



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

25. 上飾り糸切装置 (電気式)

SPREADER THREAD TRIMMING MECHANISM (ELECTRIC TYPE)

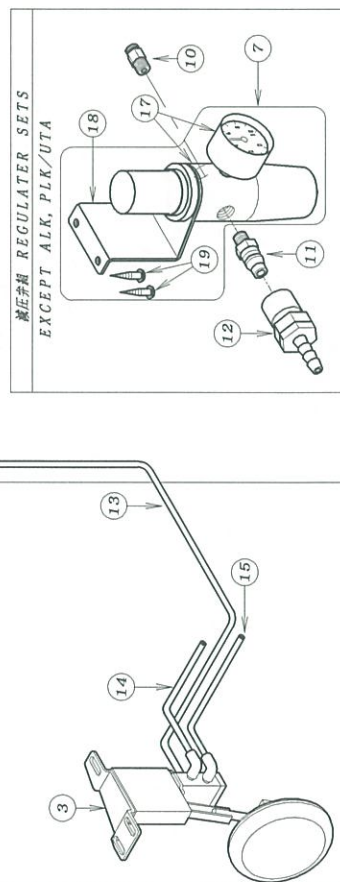
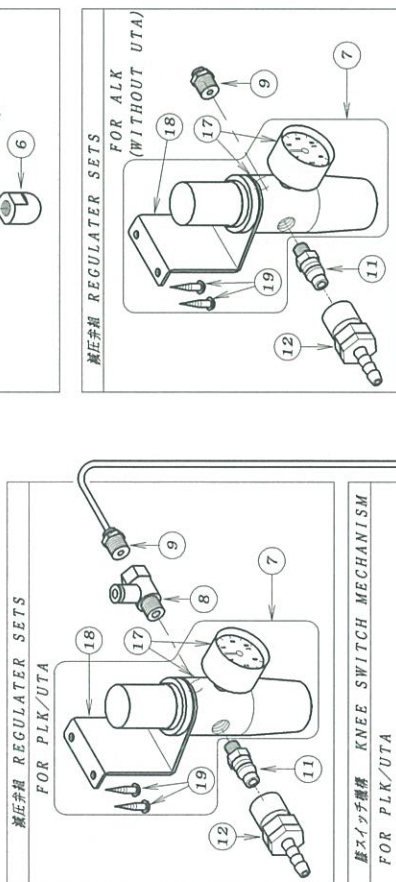
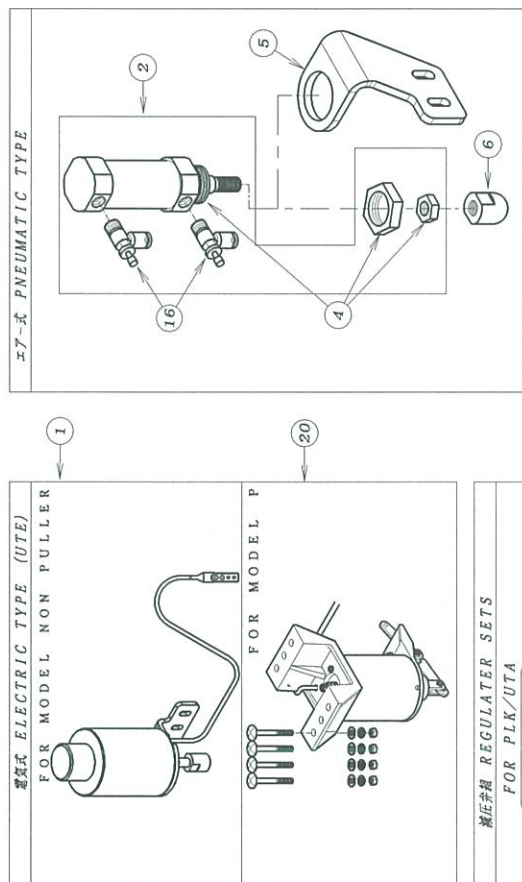


REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
25-01	00-8097	上飾り糸切セット (電気式)	THREAD TRIM ASS'Y	1
25-02	05-271	調節金具	BRACKET	1
25-03	05-272	取付ブラケット	BRACKET	1
25-04	05-273	取付金具 (1)	BRACKET	1
25-05	05-274	取付金具 (2)	BRACKET	1
25-06	05-275	カバー	COVER	1
25-07	05-276	可動メス	TRIMMING KNIFE	1
25-08	05-277	固定メス	FIXED KNIFE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

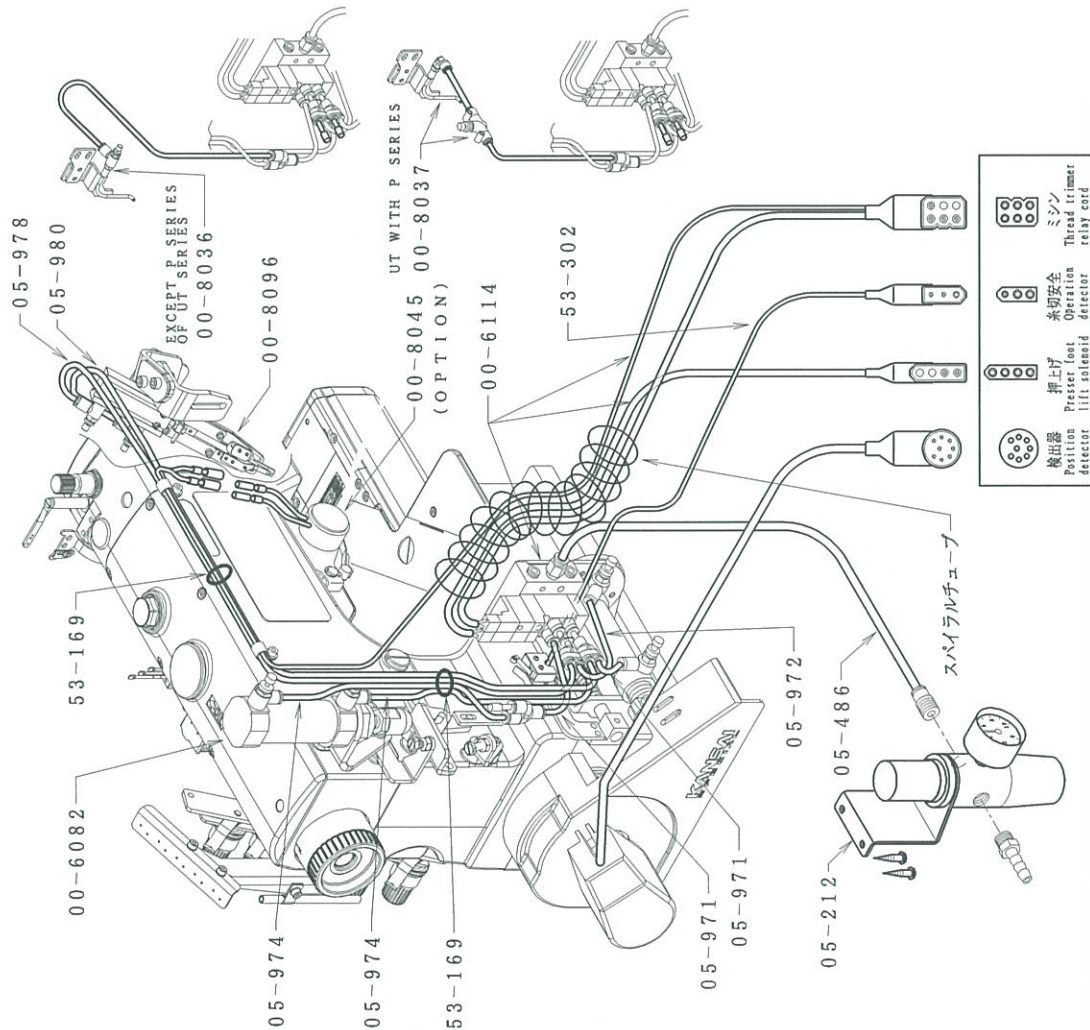
27. 押え揚げ装置, レギュレーターセット, 膝スイッチ機構

FOOT LIFTER MECHANISM, REGULATOR SETS, KNEE SWITCH MECHANISM

REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
27-01	100-8099	電気式押え揚げセット	FOOT LIFTER SOLENOID ASS'Y	1
27-02	100-6082	押え揚げシリンダーセット	AIR CYLINDER ASS'Y	1
27-03	100-6118	膝スイッチセット	KNEE SWITCH ASS'Y	1
27-04	105-207	押え揚げシリンダー	AIR CYLINDER	1
27-05	177-032	シリンダー用ブラケット	BRACKET	1
27-06	105-897	作動金具	BRACKET	1
27-07	105-212	フィルタ・レキ・ユレタ	REGULATOR	1
27-08	105-214	ユニハ・サルメスエルボ	JOINT	1
27-09	105-217	ハフユニオン	JOINT	1
27-10	105-218	レキ・ユレター用継手	JOINT	1
27-11	106-516	カフ・ラマス	CONNECTOR	1
27-12	106-517	カフ・ラマス	CONNECTOR	1
27-13	105-932	エアチューブ ④4x1500mm	AIR TUBE ④4x1500mm	1
27-14	105-938	エアチューブ ④4x450mm	AIR TUBE ④4x450mm	1
27-15	105-939	エアチューブ ④4x500mm	AIR TUBE ④4x500mm	1
27-16	106-580	スピードコントローラー	SPEED CONTROLLER	2
27-17	105-2120-A	フィルタ・レキ・ユレタ	REGULATOR	1
27-18	105-2120-B	取付けブラケット	BRACKET	1
27-19	187-905	木ネジ	SCREW	2
27-20	100-8028	UT電気式押え揚げ装置	FOOT LIFTER SOLENOID ASS'Y	1

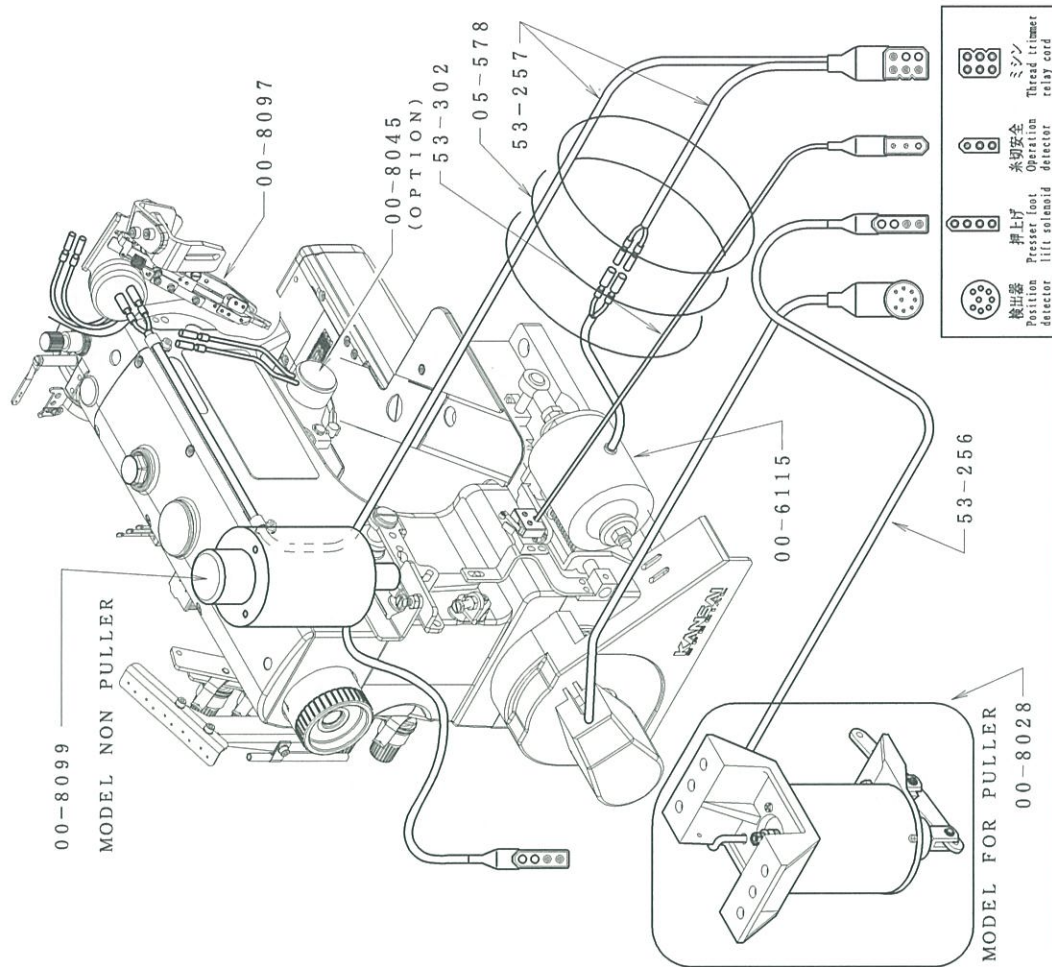


28-1. 配管, 配線図 (エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



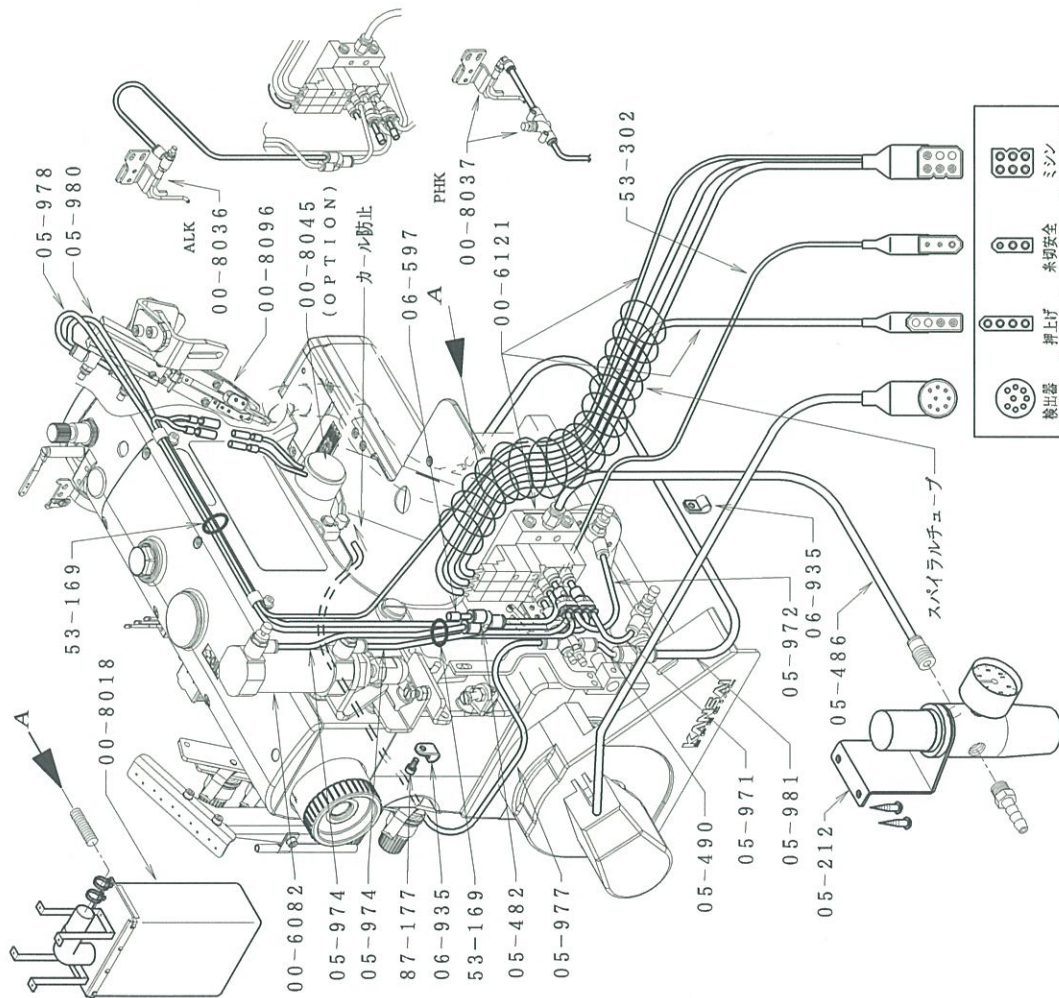
PART NO.	品 名	description
00-8096	上糸糸切装置 (エア-式)	spreader thread trimming mechanism (AIR TYPE)
00-8036	上糸払い装置 (エア-式)	thread wiper mechanism ass'y (air)
00-8037	上糸払い装置 (エア-式)	thread wiper mechanism ass'y (air)
00-6082	押脚シリンダーセット	presser foot lifter cylinder ass'y
00-6114	UT空圧装置	air cylinder assembly (UTA)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

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



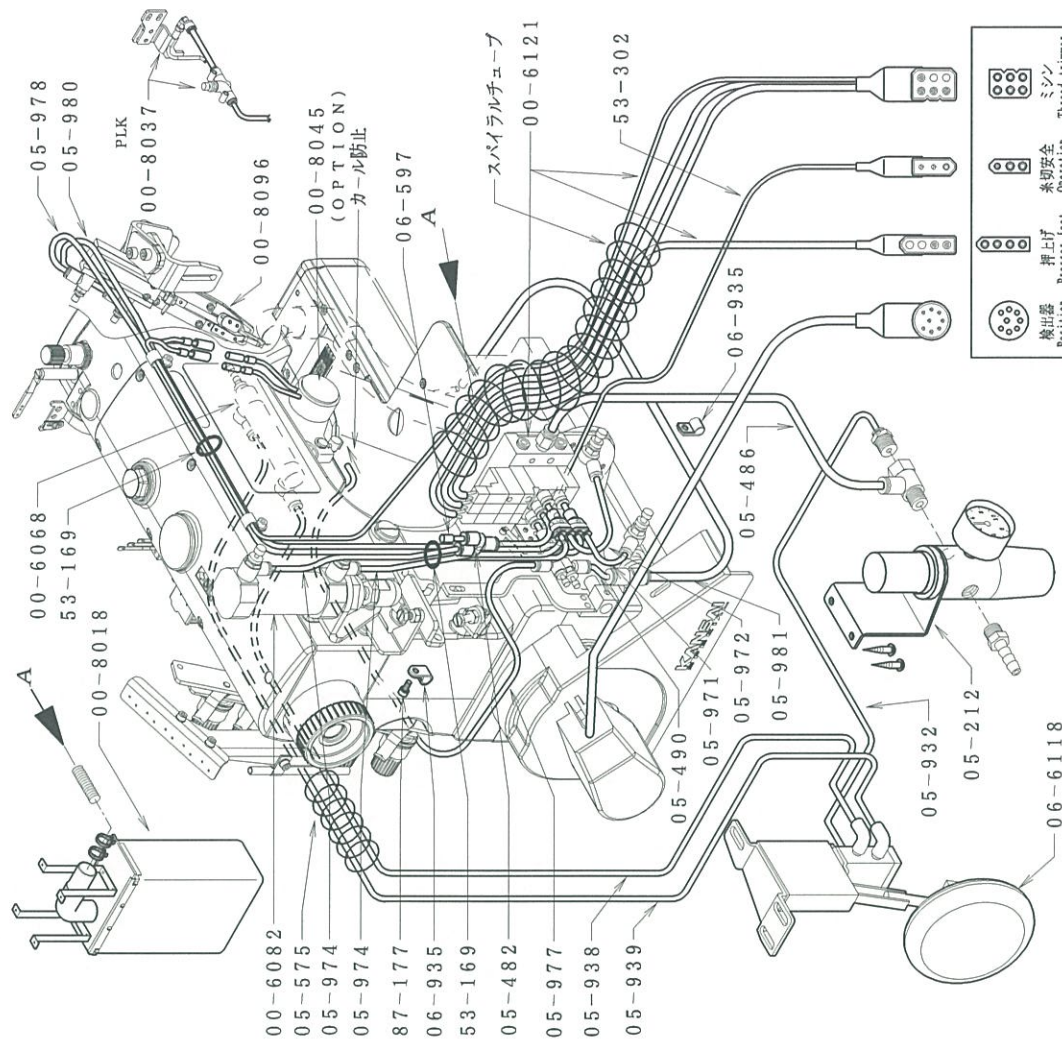
PART NO.	品 名	description
00-8097	上糸糸切装置	spreader thread trimming mechanism
00-8099	UT電気式押脚け装置	presser foot lifter solenoid ass'y (FOR NON PULLER)
00-8028	UT電気式押脚け装置	presser foot lifter solenoid ass'y (FOR PULLER)
00-6115	UT電気式下糸切装置	solenoid assembly (UTE)
00-8045	上糸払い装置	thread wiper mechanism ass'y (electric)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

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



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

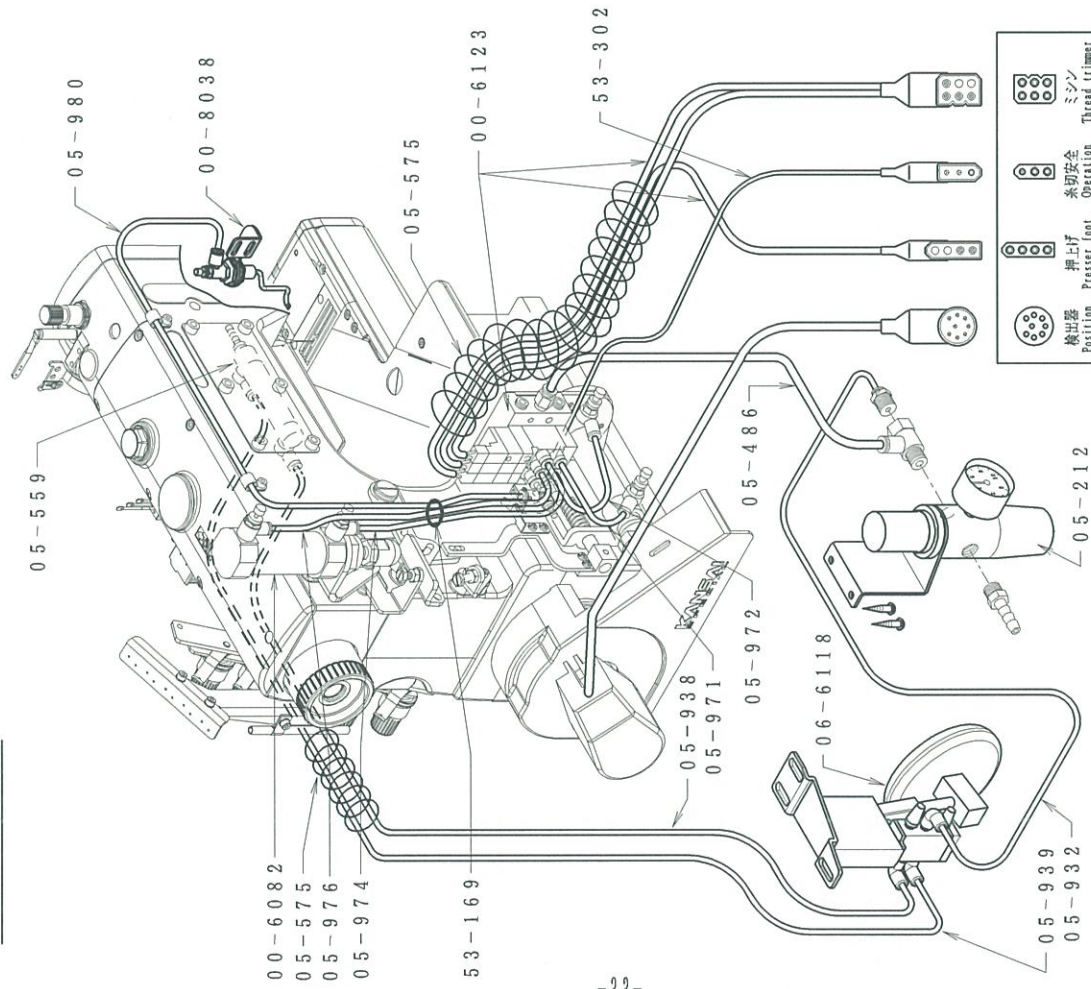
28-4. 配管, 配線図 (PLK エア-式) WIRING AND PIPING (PNEUMATIC TYPE)



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

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

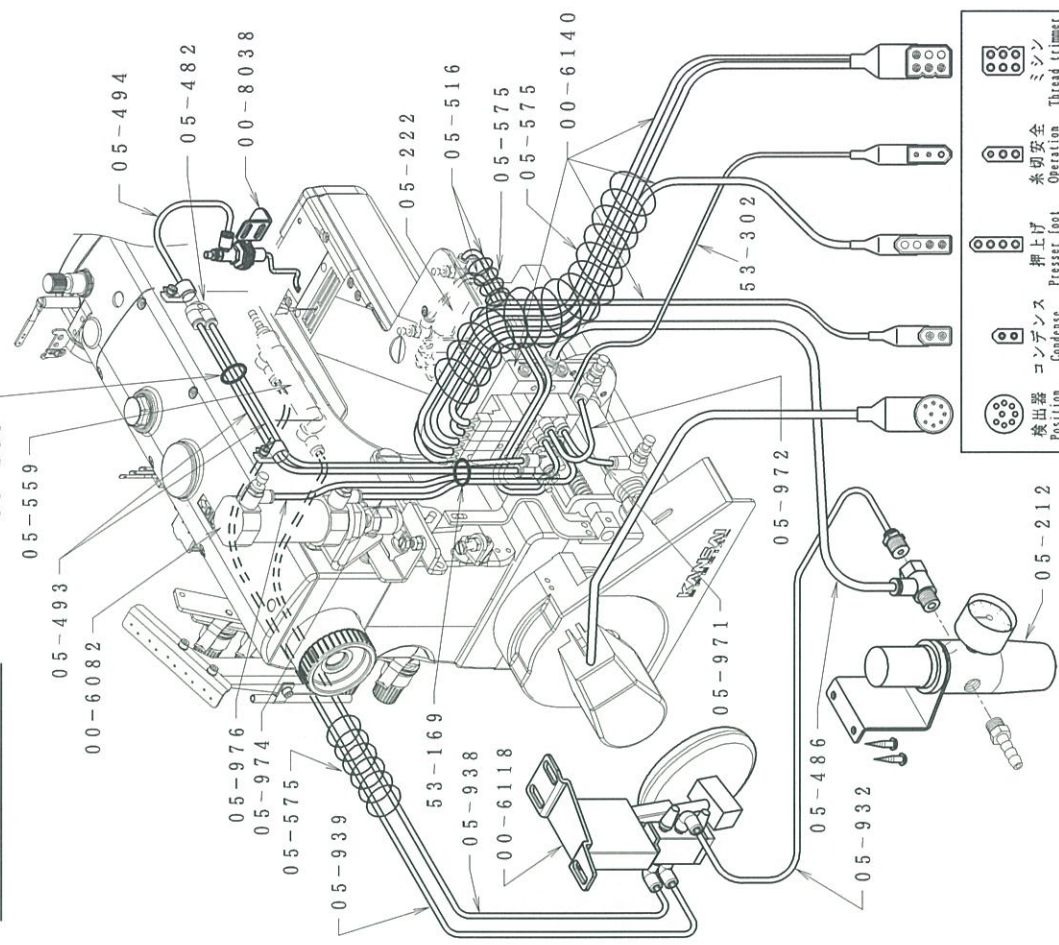
9701J-UTAB



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

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

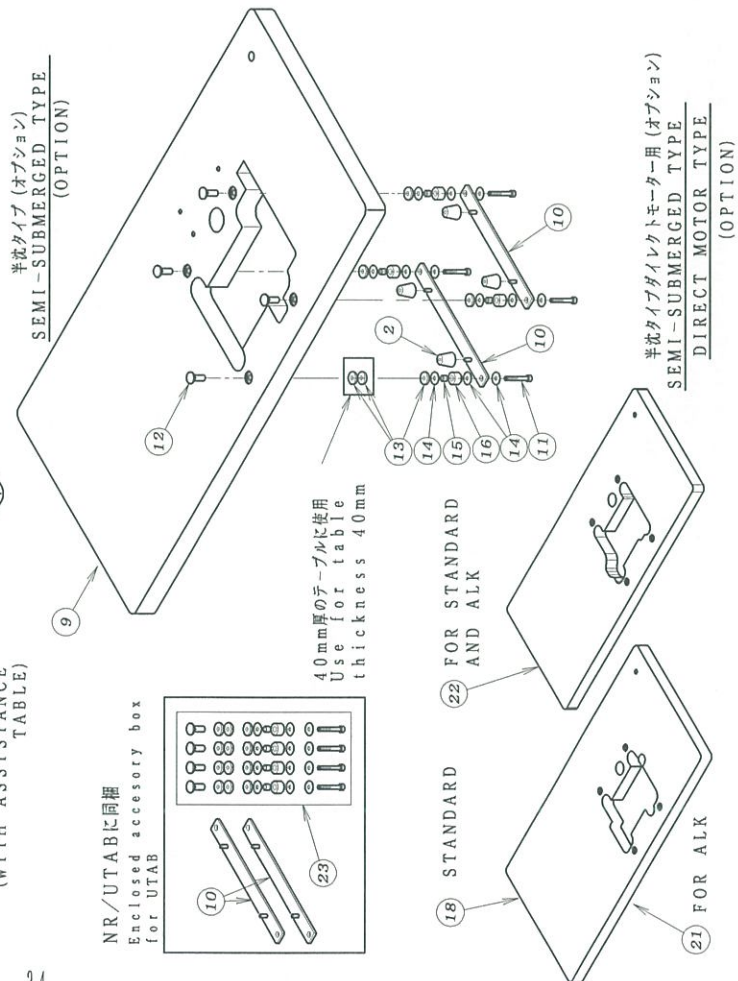
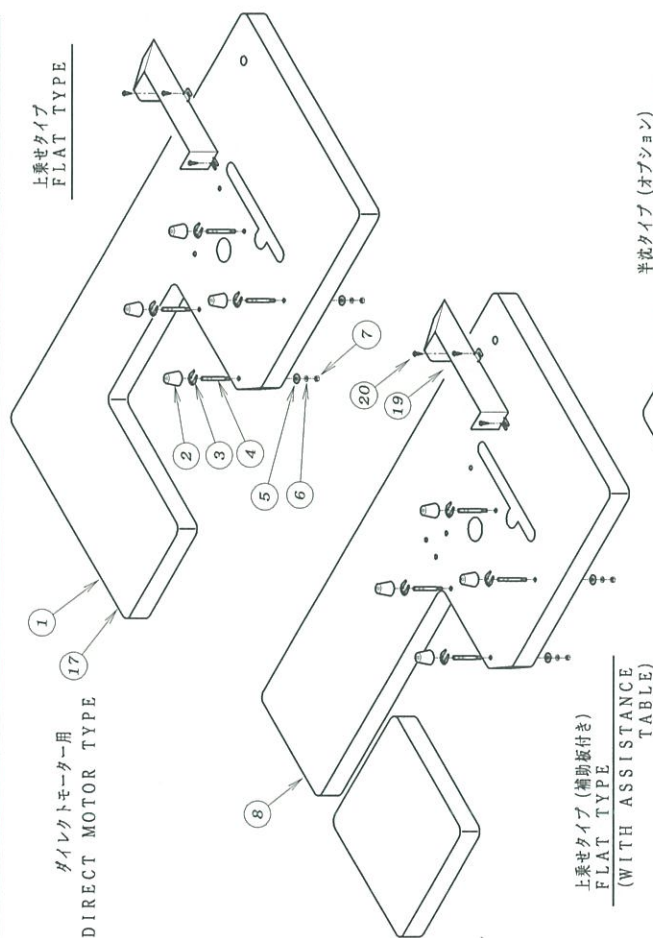
9701J-CD-UTAB



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

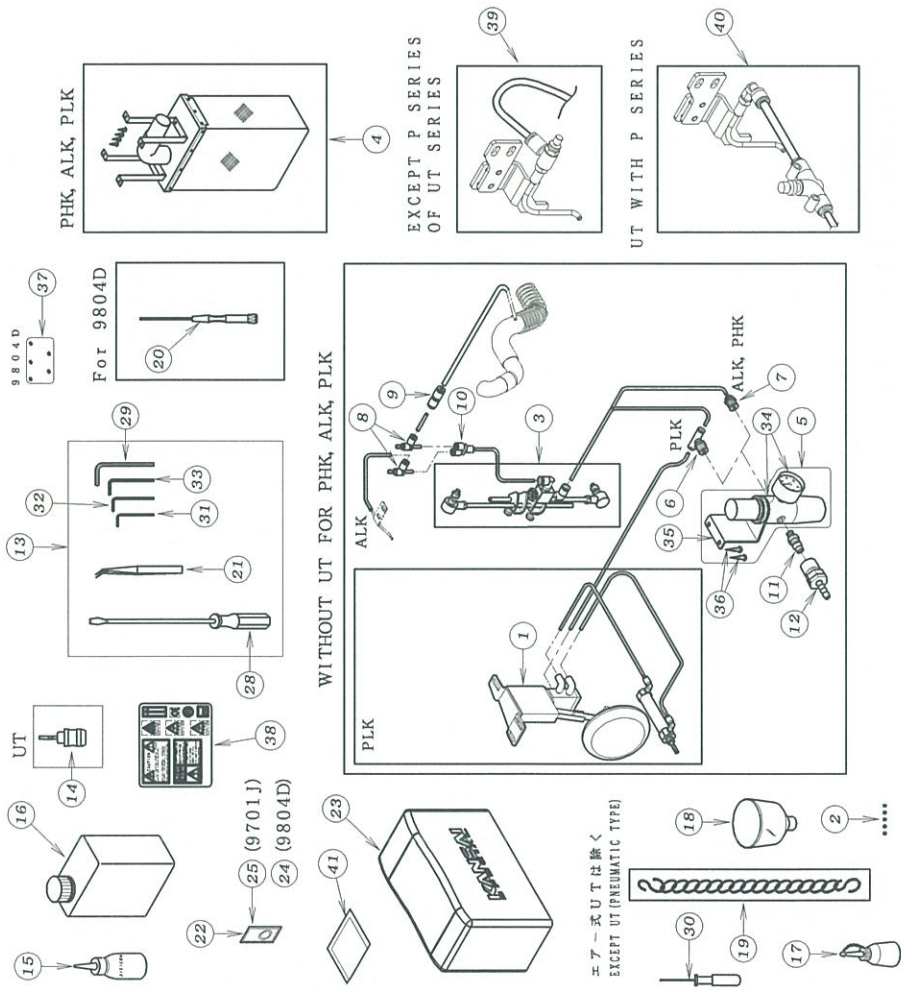
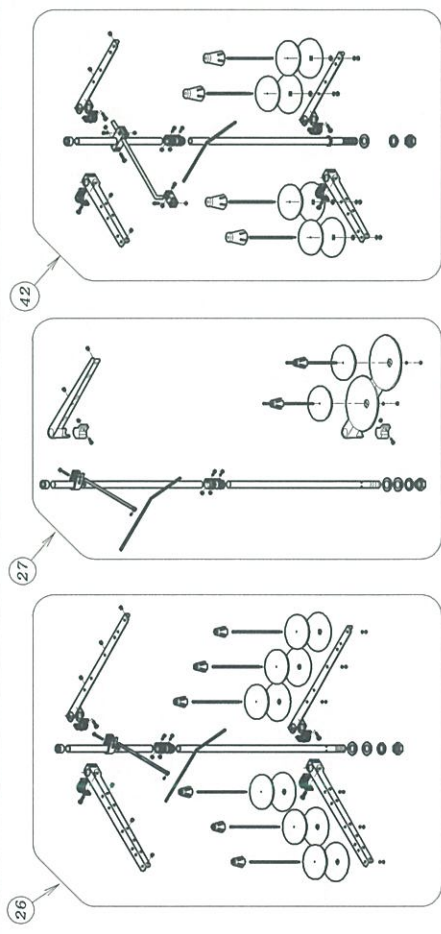
29. テーブル関係 TABLE

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



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

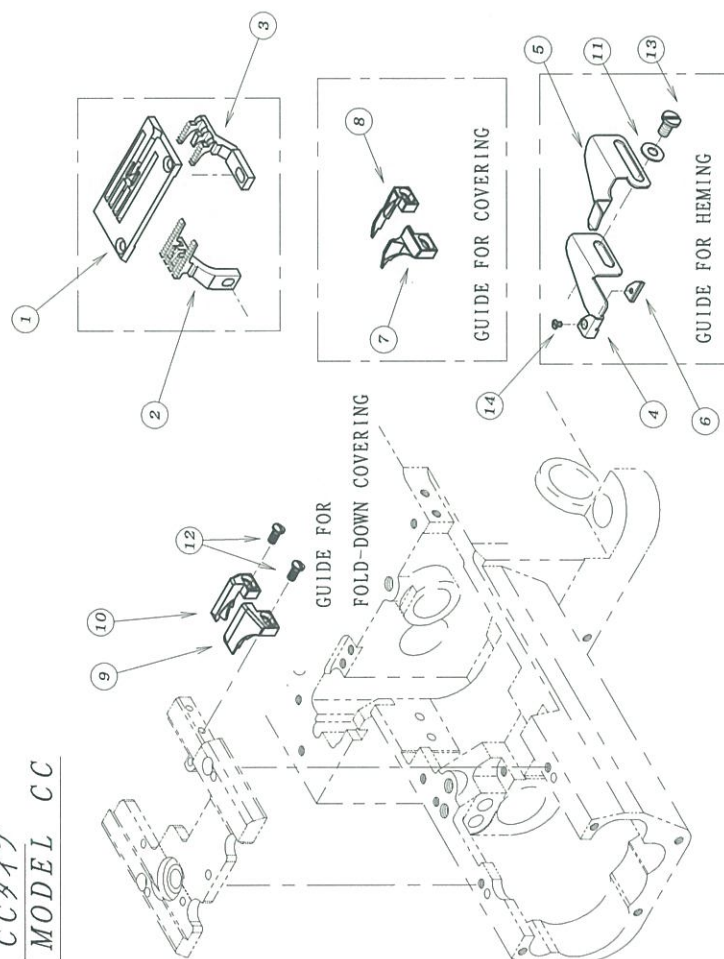
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
30-01	100-6118	膝スイッチセット	KNEE SWITCH ASS'Y	1
30-02	87-104	ネジ	SCREW	5
30-03	100-8014	吸込み用パルプセット	TREADLE AIR SWITCH ASSEMBLY	1
30-04	100-8018	集塵袋セット	FABRIC BAG ASSEMBLY	1
30-05	105-212	フィルタレキ・ユレータ	REGULATOR	1
30-06	105-215	両口チ-ス・ユニオン	JOINT	1
30-07	105-217	ハフユニオン	JOINT	1
30-08	105-221	スピード・コントローラー	SPEED CONTROLLER	2
30-09	105-224	異径ストレート	JOINT	1
30-10	105-482	ユニオンワイ	CONNECTOR	1
30-11	106-516	カプ・ラメス	CONNECTOR	1
30-12	106-517	カプ・ラオス	CONNECTOR	1
30-13	20-0010	付属部品ケース	ACCESSORIES	1
30-14	28-454	ト・ライハ- (小)	DRIVER (SMALL)	1
30-15	28-612	シリコンオイル	SILICON OIL	1
30-16	28-618	オイル	OIL	1
30-17	28-614	油差し	OILER	1
30-18	28-615	シ-ョウコ-	OIL FUNNEL	1
30-19	28-920	チェーン	CHAIN	1
30-20	28-318	精密ライナストライハ'-2.5mm	SCREWDRIVER	1
30-21	28-011	ピンセット	TWEZERS	1
30-22	13-0110-6	針 UYX128GAS #11	NEEDLE UYX128GAS #11	1
30-23	28-557	ミシンカバー	COVER	1
30-24	13-3020-5	針 SM1014H #10S	NEEDLE (9804D-6.4mm) #10S	1
30-25	13-1510-5	針 TVX5 #21	NEEDLE TVX5 #21 (RX9701J)	1
30-26	42-706	6本糸立	THREAD STAND ASSEMBLY	1
30-27	42-002	2本糸立	THREAD STAND ASSEMBLY	1
30-28	28-452	ドライバ- (大)	DRIVER (LARGE)	1
30-29	28-314	六角レンチ 5mm	ALLEN KEY (5mm)	1
30-30	28-317	グリッパ付六角レンチ 1.5mm	ALLEN KEY (1.5mm)	1
30-31	28-311	六角レンチ 2mm	ALLEN KEY (2mm)	1
30-32	28-312	六角レンチ 2.5mm	ALLEN KEY (2.5mm)	1
30-33	28-313	六角レンチ 3mm	ALLEN KEY (3mm)	1
30-34	105-2120-A	フィルタ・レギュレータ	REGULATOR	1
30-35	105-2120-B	取付けブラケット	BRACKET	1
30-36	87-905	木ネジ	SCREW	2
30-37	85-603	ネジ	SCREW	5
30-38	20-6200	警告ラベルシール	INFORMATION SEAL	1
30-39	100-8036	糸払い装置 (エア-)	WIPER MECHANISM ASS'Y (AIR)	1
30-40	100-8037	糸払い装置 (エア-)	WIPER MECHANISM ASS'Y (AIR)	1
30-41	128-610	気化性防錆剤	CORROSION INHIBITOR	1
30-42	42-704	4本糸立て	THREAD STAND ASSEMBLY	1



31. CCタイプ, Pタイプ 生地ガイド関係

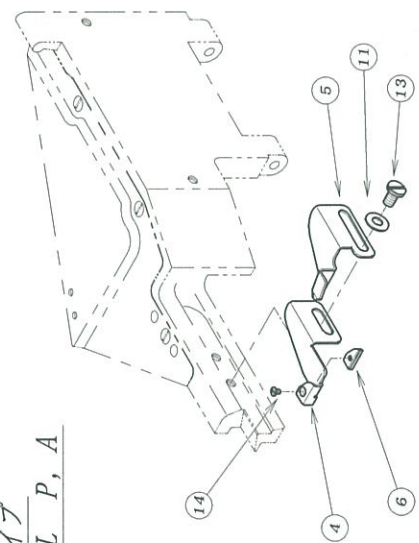
FABRIC GUIDE FOR MODEL CC, P, A

CCタイプ MODEL CC



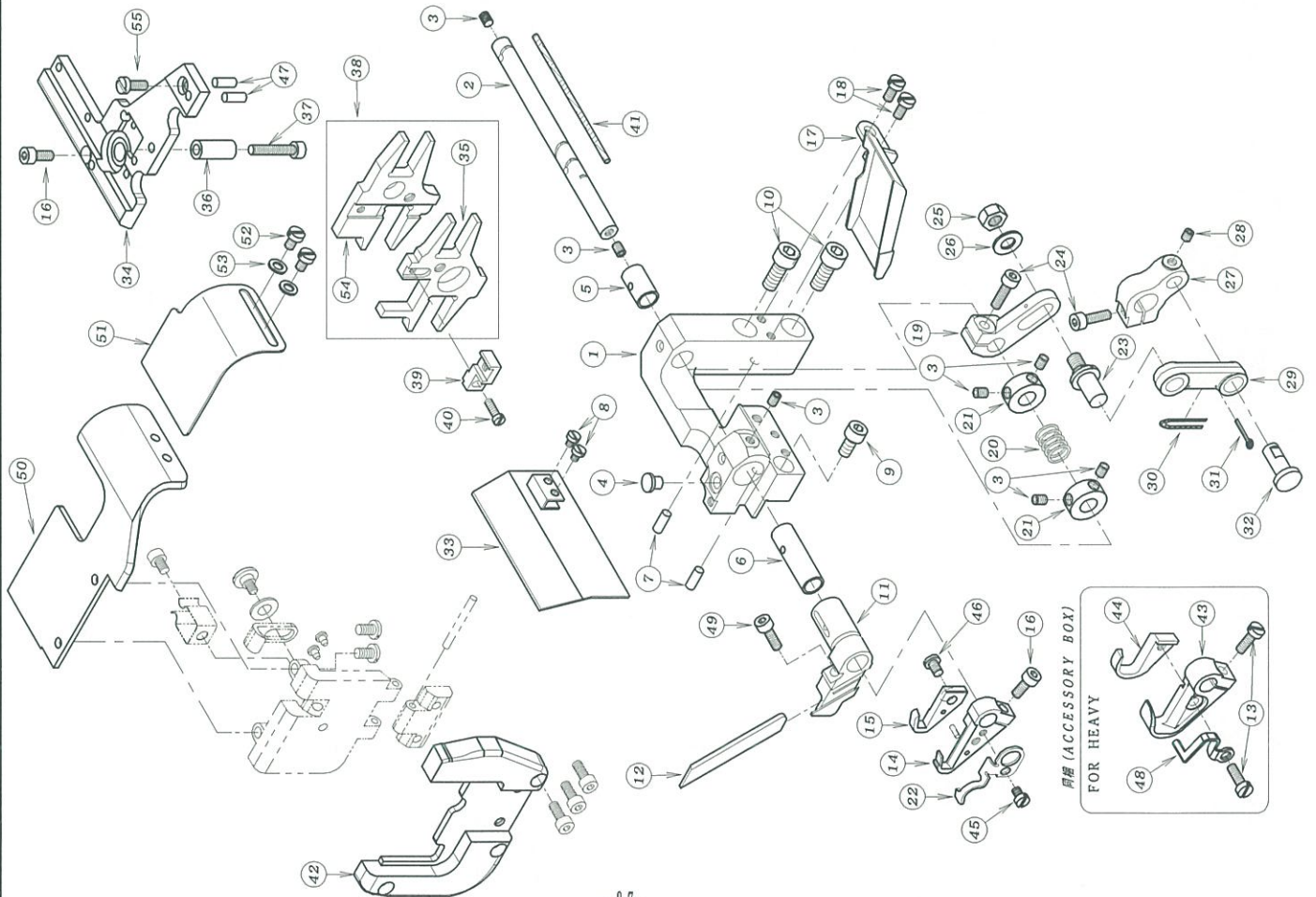
*Enclosing accessory box

P, Aタイプ MODEL P, A



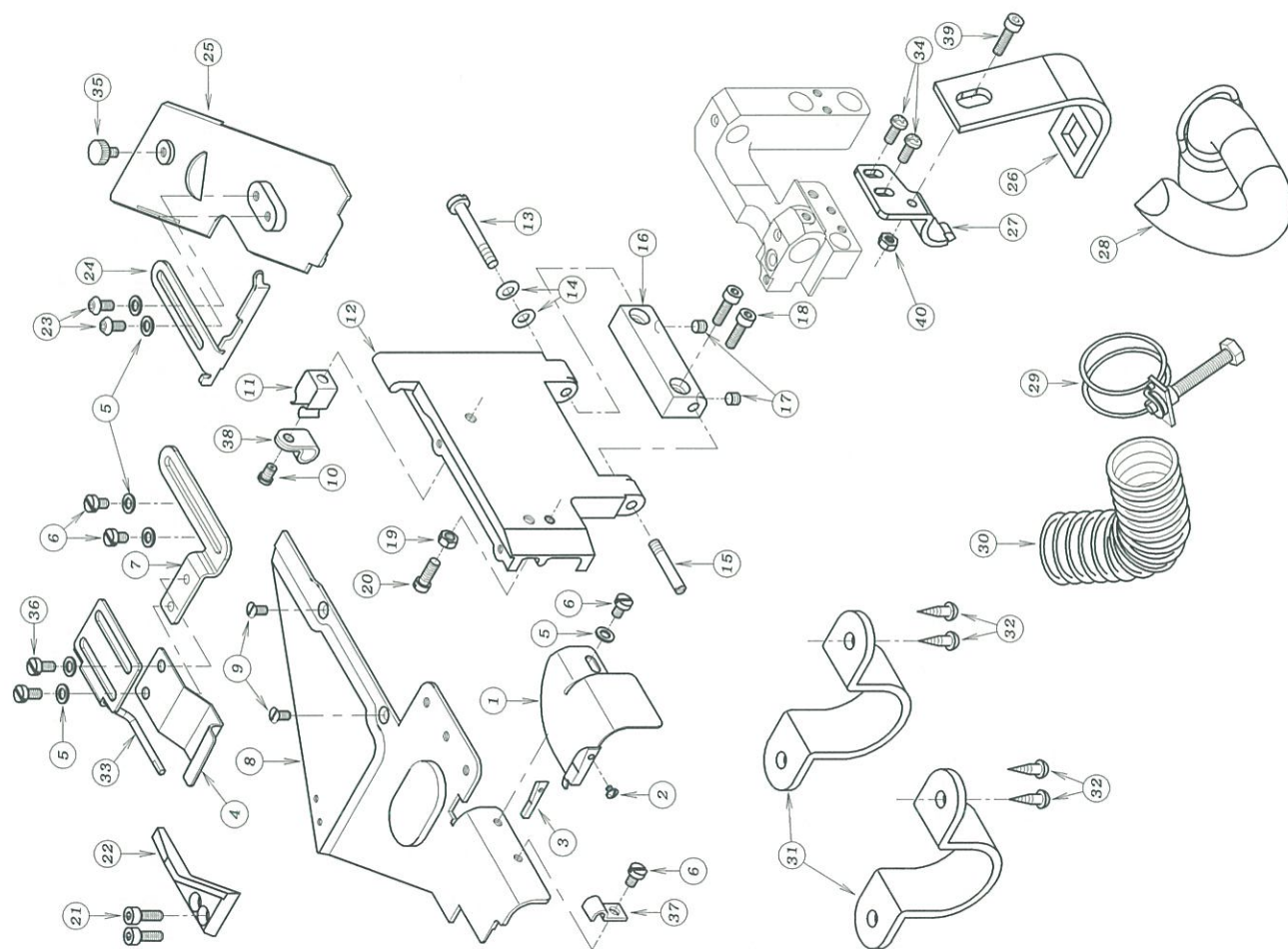
REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
31-01*		針板	NEEDLE PLATE	1
31-02*		後送歯	REAR FEED DOG	1
31-03*		前送歯	FRONT FEED DOG	1
31-04	26-556	裾引定規 (左)	HEMMING GUIDE (LEFT)	2
31-05	26-557	裾引定規 (右)	HEMMING GUIDE (RIGHT)	2
31-06	26-558	定規チップ	FOLDER CHIP	2
31-07	26-831	C用ガイド左	EDGE GUIDE (LEFT)	1
31-08	26-832	C用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

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



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

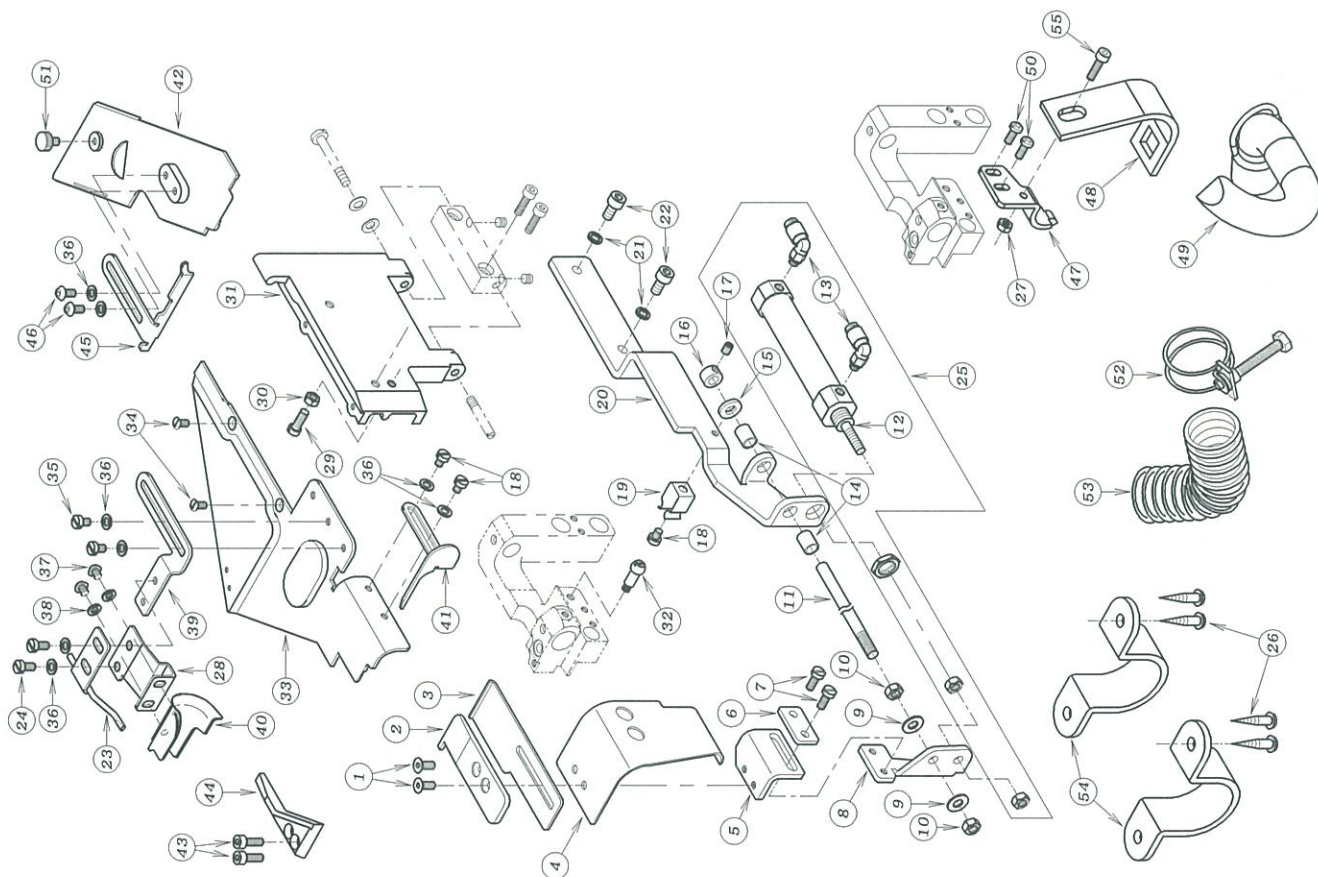
33. ALK専用部品 MODEL ALK EXCLUSIVE PARTS



REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
33-01	26-567	布ガイド (右)	GUIDE (LEFT)	1
33-02	85-611	ネジ	SCREW	1
33-03	26-568	定規チップ	BLOCK	1
33-04	26-565	棚定規 (右)	GUIDE (RIGHT)	1
33-05	75-468	ワッシャー	WASHER	7
33-06	87-284	ネジ	SCREW	4
33-07	26-572	棚定規 (右) 取付	BRACKET (RIGHT)	1
33-08	21-752W	定規板	FRONT PLATE	1
33-09	84-464	ネジ	SCREW	2
33-10	84-575	ネジ	SCREW	1
33-11	79-912	定規台板バネ	SPRING	1
33-12	21-743W	定規台	FRONT COVER	1
33-13	25-517	ピンネジ	SCREW	1
33-14	79-922	皿バネ	FLAT SPRING	2
33-15	25-527	ピンネジ	SCREW	1
33-16	25-516W	ピンネジ	HINGE	1
33-17	87-274	ネジ	SCREW	2
33-18	87-214	ネジ	SCREW	2
33-19	86-311	ナット	NUT	1
33-20	84-635	ネジ	SCREW	1
33-21	87-129	ネジ	SCREW	2
33-22	21-737W	定規台板バネ	COVER	1
33-23	87-272	ネジ	SCREW	2
33-24	26-570	布ガイド (右)	FABRIC GUIDE (RIGHT)	1
33-25	21-767	定規板	SLIDE COVER	1
33-26	07-010	吸込みパイプ 止め金具	PIPE BAND	1
33-27	07-009	吸込みパイプ フラケット	BRACKET	1
33-28	07-011	吸込みパイプ	PIPE	1
33-29	07-573	ホースバンド	BELT	1
33-30	07-572	ホース	HOSE	1
33-31	07-542	ホースクランプ	CLAMP	2
33-32	87-902	ネジ	SCREW	4
33-33	26-573	カル筋パイプ	PIPE	1
33-34	87-483	ブライヤパイプ	SCREW	2
33-35	87-409	ネジ	SCREW	1
33-36	87-096	ネジ	SCREW	2
33-37	39-131	パイプサポート	CLAMP	1
33-38	06-935	パイプクリップ	CLAMP	1
33-39	87-299	六角穴付きボルト	BOLT	1
33-40	88-146	ナット	NUT	1

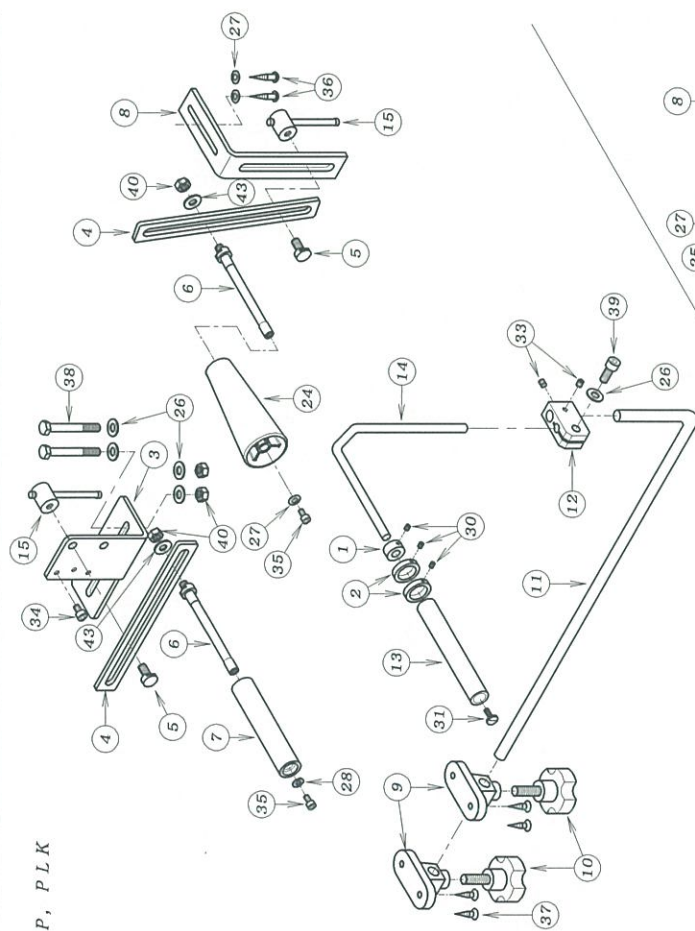
34. PLK専用部品 MODEL PLK EXCLUSIVE PARTS

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

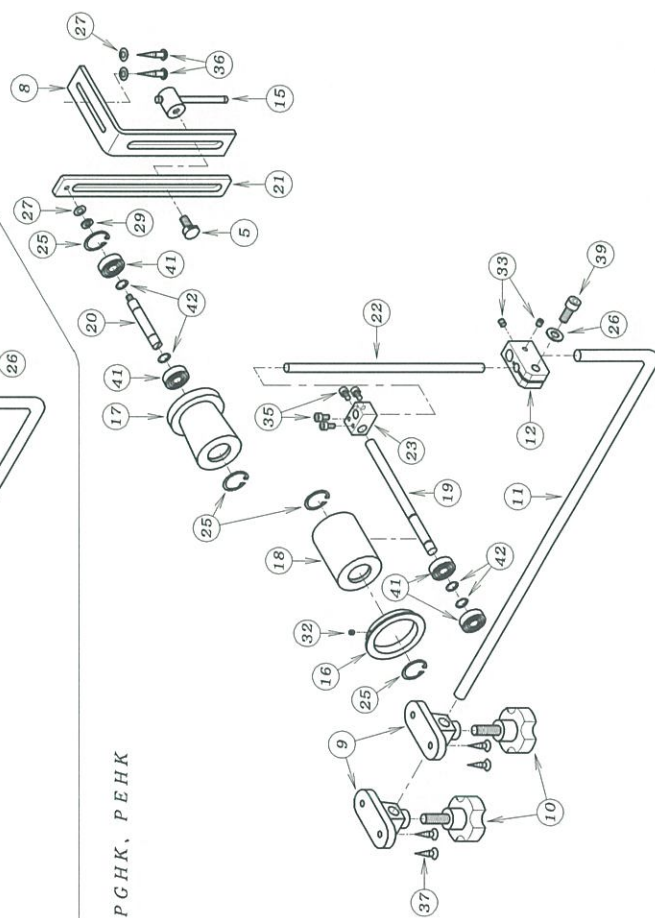


35. ゴム張り機構, GUIDE ROLLER MECHANISM

P, PLK

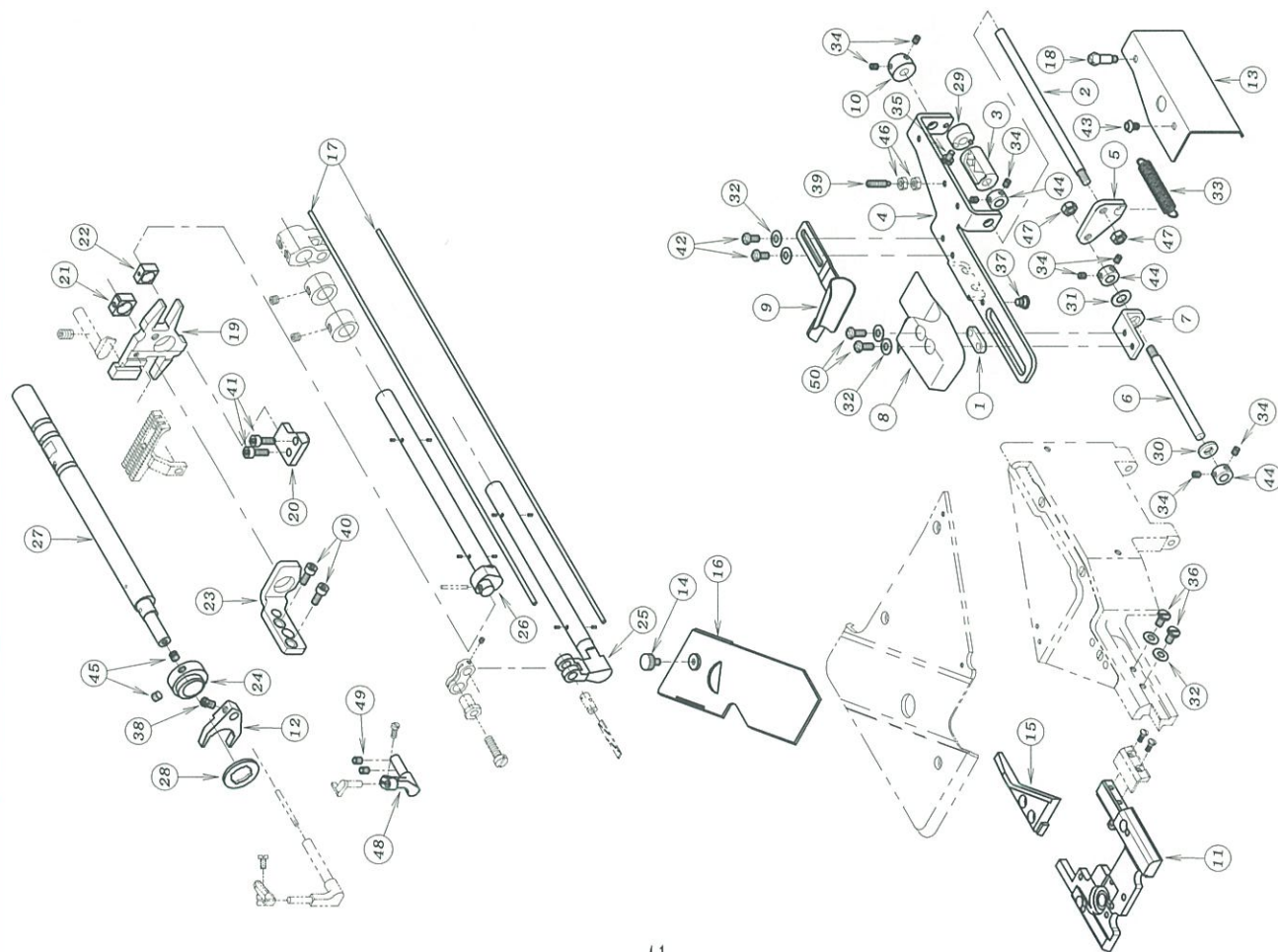


PGHK, PEHK



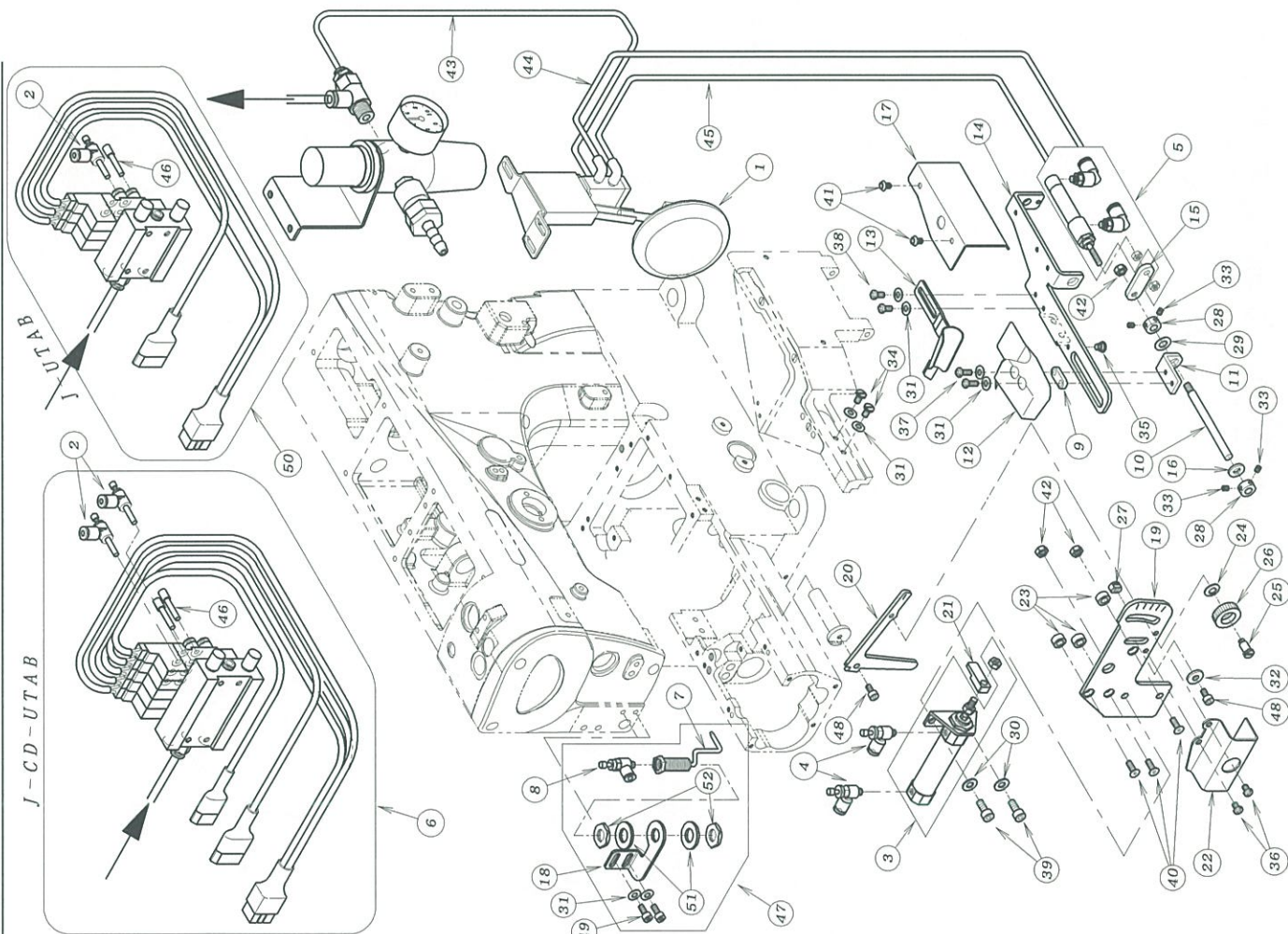
REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
35-01	109-145	カラー	COLLAR	1
35-02	109-147	カラー	COLLAR	2
35-03	109-519	リアローラー*ラケット	REAR ROLLER BRACKET	1
35-04	109-521	リアローラー*スライド*	SLIDE PLATE	1
35-05	109-522	リアローラー*止めネジ*	SCREW	1~2
35-06	109-523	リアローラー*調整軸	SHAFT	2
35-07	109-524	リアローラー	REAR ROLLER	1
35-08	109-525	テンション*ラケット	BRACKET	1
35-09	109-526	ローラー*ラケット	BRACKET	2
35-10	109-527	ノブ	KNOB	2
35-11	109-528	ローラー*ラケット ハー	BAR	1
35-12	109-529	ローラー*軸継手	JOINT BLOCK	1
35-13	109-530	前ローラー	ROLLER	1
35-14	109-531	ローラー*ラケットハー	BAR	1
35-15	109-553	ハンドル	HANDLE	1~2
35-16	109-603	ゴ*ムスラストカラー	FRONT ROLLER GUIDE	1
35-17	109-614	ドロラー	TAPER ROLLER	1
35-18	109-615	前ローラー	FRONT ROLLER	1
35-19	109-616	前ローラー*シャフト	FRONT ROLLER SHAFT	1
35-20	109-617	ドロラー	ROLLER SHAFT	1
35-21	109-618	ドロラー*スライド	SLIDE PLATE	1
35-22	109-619	前ローラー*縦シャフト	SHAFT	1
35-23	109-620	ローラー*軸継手	JOINT BRACKET	1
35-24	109-727	テ*ハローラー	TAPER ROLLER	1
35-25	193-238	爪用C形止め輪呼び 26	C-RING 26	4
35-26	75-451	ワッシャ	WASHER	1~5
35-27	75-452	ワッシャ	WASHER	2~3
35-28	75-453	ワッシャ	WASHER	1
35-29	75-527	ス*リング* ワッシャ	SPRING WASHER	1
35-30	84-521	ネジ*	SCREW	3
35-31	84-570	ネジ*	SCREW	1
35-32	87-106	ネジ	SCREW	1
35-33	87-172	ネジ*	SCREW	2
35-34	87-203	六角穴付きボルト	BOLT	1
35-35	87-213	六角穴付きボルト	BOLT	2~4
35-36	87-501	丸木ネジ*	SCREW	2
35-37	87-502	丸木ネジ*	SCREW	4
35-38	87-503	六角ボルト	BOLT	2
35-39	87-663	六角穴付きボルト	BOLT	1
35-40	88-176	ナット	NUT	4
35-41	91-110	ボール*アリング*	BALL BEARING	4
35-42	93-228	軸用丸S形止め輪	SNAP RING	4
35-43	75-501	ワッシャ	WASHER	2

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



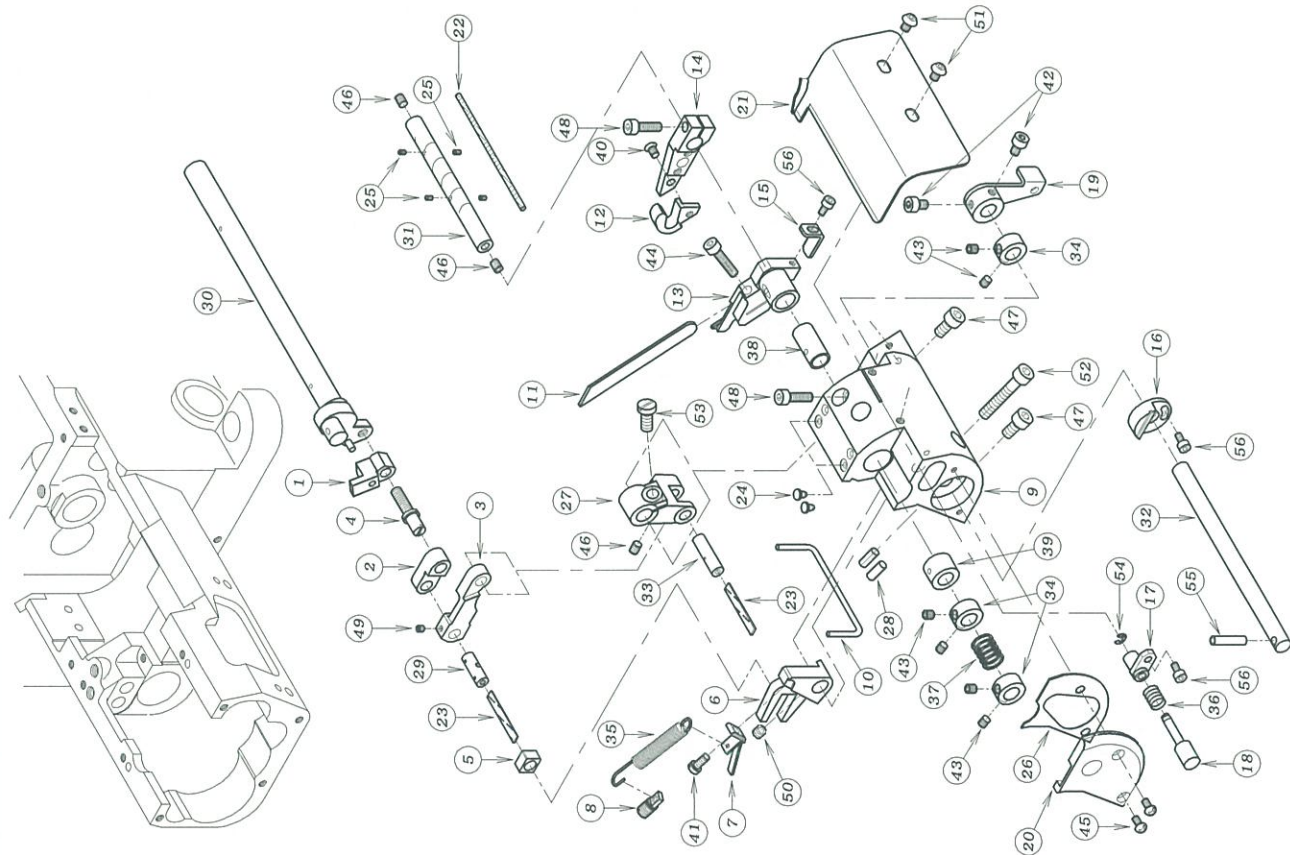
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
36-01	09-015	スライト [*] 金具	BRACKET	1
36-02	09-016	ホルダ [*] -案内棒 (B)	GUIDE BAR (B)	1
36-03	09-017	ホルダ [*] -案内金具	CAM	1
36-04	09-018	ホルダ [*] -取付台	BRACKET	1
36-05	09-019	ホルダ [*] -連結プ [*] レート	PLATE	1
36-06	09-020	ホルダ [*] -案内棒 (A)	GUIDE BAR (A)	1
36-07	09-021	ホルダ [*] -取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

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



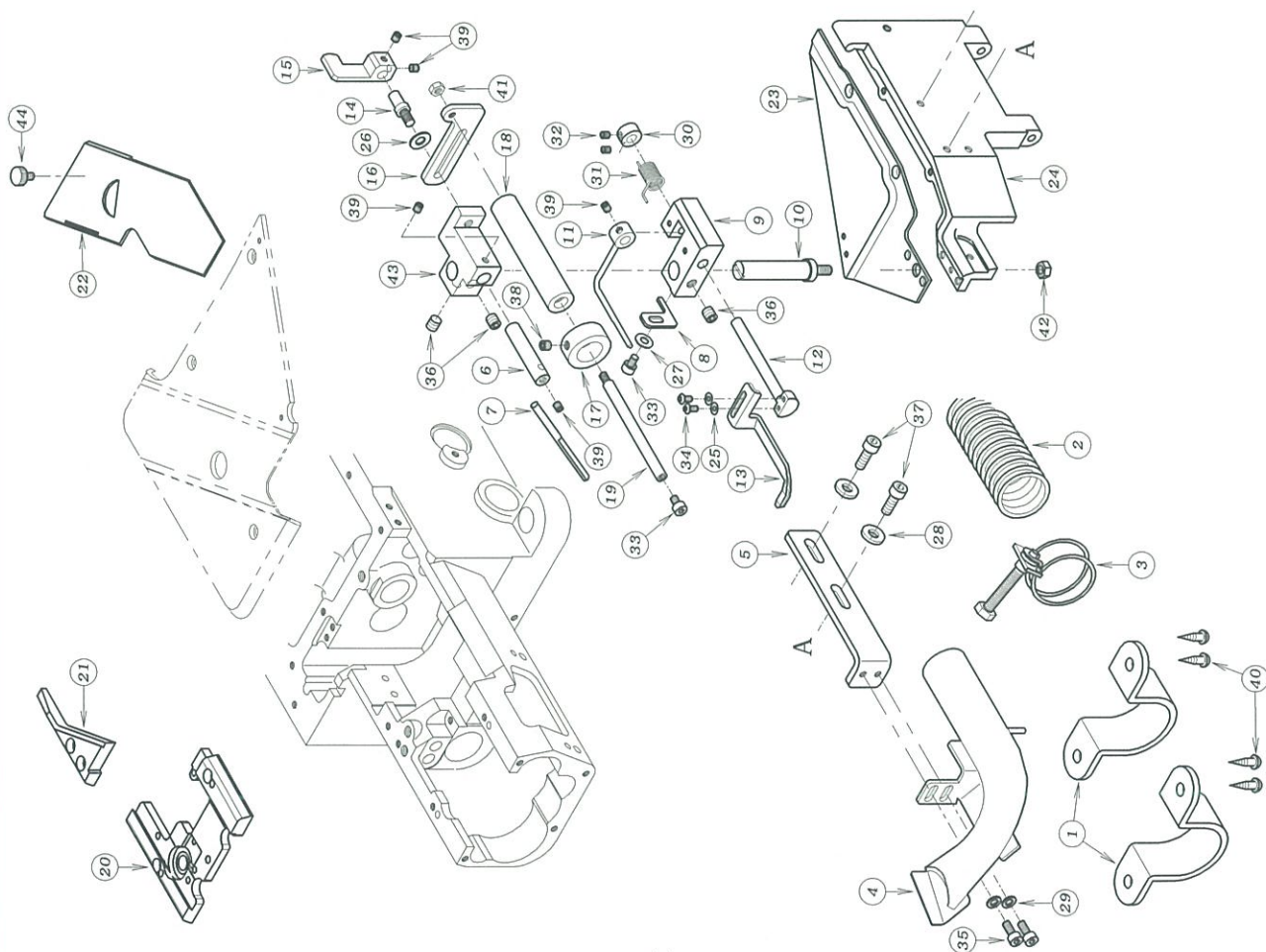
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
37-01	00-6118	膝スイッチセット	KNEE SWITCH ASS'Y	1
37-02	05-221	スピード・コントローラー	SPEED CONTROLLER	2
37-03	05-222	エア・シリンダー	CYLINDER	1
37-04	05-481	スピード・コントローラー	SPEED CONTROLLER	2
37-05	05-559	エア・シリンダー	AIR CYLINDER	1
37-06	05-969	電磁弁5連セット	SOLENOID VALVE ASSEMBLY	1
37-07	06-282	エアノズル	AIR NOZZLE	1
37-08	06-559	スピード・コントローラー	SPEED CONTROLLER	1
37-09	09-015	スライツ' 金具	BRACKET	1
37-10	09-020	ホルダ' -案内棒 (A)	GUIDE BAR	1
37-11	09-021	ホルダ' -取付フ' ラケット	BRACKET	1
37-12	09-022	ホルダ' - (左)	GUIDE (LEFT)	1
37-13	09-023	ホルダ' - (右)	GUIDE (RIGHT)	1
37-14	09-024	ホルダ' -取付台	BRACKET	1
37-15	09-025	ホルダ' -連結フ' レート	PLATE	1
37-16	09-506	ワッシャ	WASHER	1
37-17	21-232	カバー	COVER	1
37-18	27-369	エア・プロブラケット	BRACKET	1
37-19	51-141	目盛板	FEED GRADUATIONS	1
37-20	51-142	コンデ' ンスレハ' -	CONDENSE LEVER	1
37-21	51-143	シリンダ' -先端金具	BLOCK	1
37-22	51-144	安全カバー	COVER	1
37-23	51-805	スヘ' -スカラー	COLLAR	3
37-24	51-806	皿ハ' ネ	SPRING	1
37-25	51-807	段ネジ	SCREW	1
37-26	51-808	ナット	NUT	1
37-27	51-846	ストップパ' -	STOPPER	1
37-28	75-105	カラー	COLLAR	2
37-29	75-452	ワッシャ	WASHER	1
37-30	75-453	ワッシャ	WASHER	2
37-31	75-455	ワッシャ	WASHER	8
37-32	75-456	ワッシャ	WASHER	1
37-33	84-314	ネジ	SCREW	4
37-34	84-574	ネジ	SCREW	2
37-35	84-585	段ネジ	SCREW	1
37-36	87-481	プラマイナベ小ねじ	SCREW	2
37-37	87-483	プラマイナベ小ねじ	SCREW	2
37-38	87-482	プラマイナベ小ねじ	SCREW	2
37-39	87-252	六角穴付きボルト	BOLT	2
37-40	87-265	六角穴付き皿ボ' ルト	SCREW	3
37-41	87-267	ネジ	SCREW	2
37-42	88-157	ナット	NUT	3
37-43	05-932	エア・チューブ $\phi 4 \times 1500\text{mm}$	AIR TUBE $\phi 4 \times 1500\text{mm}$	1
37-44	05-938	エア・チューブ $\phi 4 \times 450\text{mm}$	AIR TUBE $\phi 4 \times 450\text{mm}$	1
37-45	05-939	エア・チューブ $\phi 4 \times 500\text{mm}$	AIR TUBE $\phi 4 \times 500\text{mm}$	1
37-46	06-597	プラグ	PLUG	2
37-47	00-8038	糸引装置 (エア)	WIPE MECHANISM ASS'Y (AIR)	1
37-48	87-177	六角穴付きボルト	BOLT	2
37-49	87-113	六角穴付きボルト	BOLT	2
37-50	05-966	電磁弁3連セット	SOLENOID VALVE ASSEMBLY	1
37-51	75-538	ワッシャ	WASHER	2
37-52	86-801	ナット	NUT	2

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



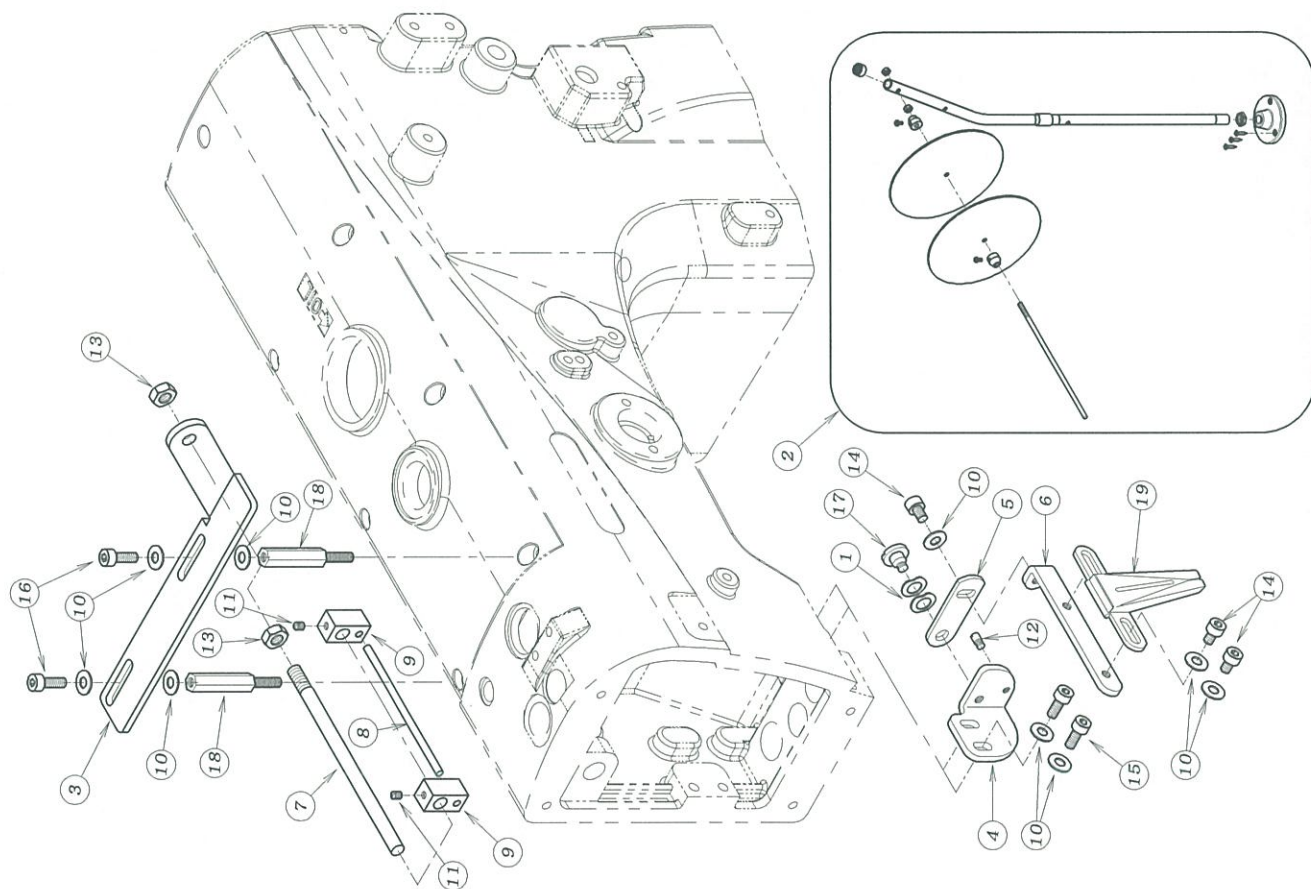
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
38-01	07-586	フ ロック	BLOCK	1
38-02	07-587	連結リンク	LINK	1
38-03	07-588	連結リンク	LINK	1
38-04	07-589	駆動ピ ン	PIN	1
38-05	07-590	角コ マ	BLOCK	1
38-06	07-591	上メス調整レハ' -	LEVER	1
38-07	07-592	スプ' リンク' ホルダ' -	SPRING HOLDER	1
38-08	07-593	スプ' リンク' 止めネジ'	LOCK SCREW	1
38-09	07-594W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

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



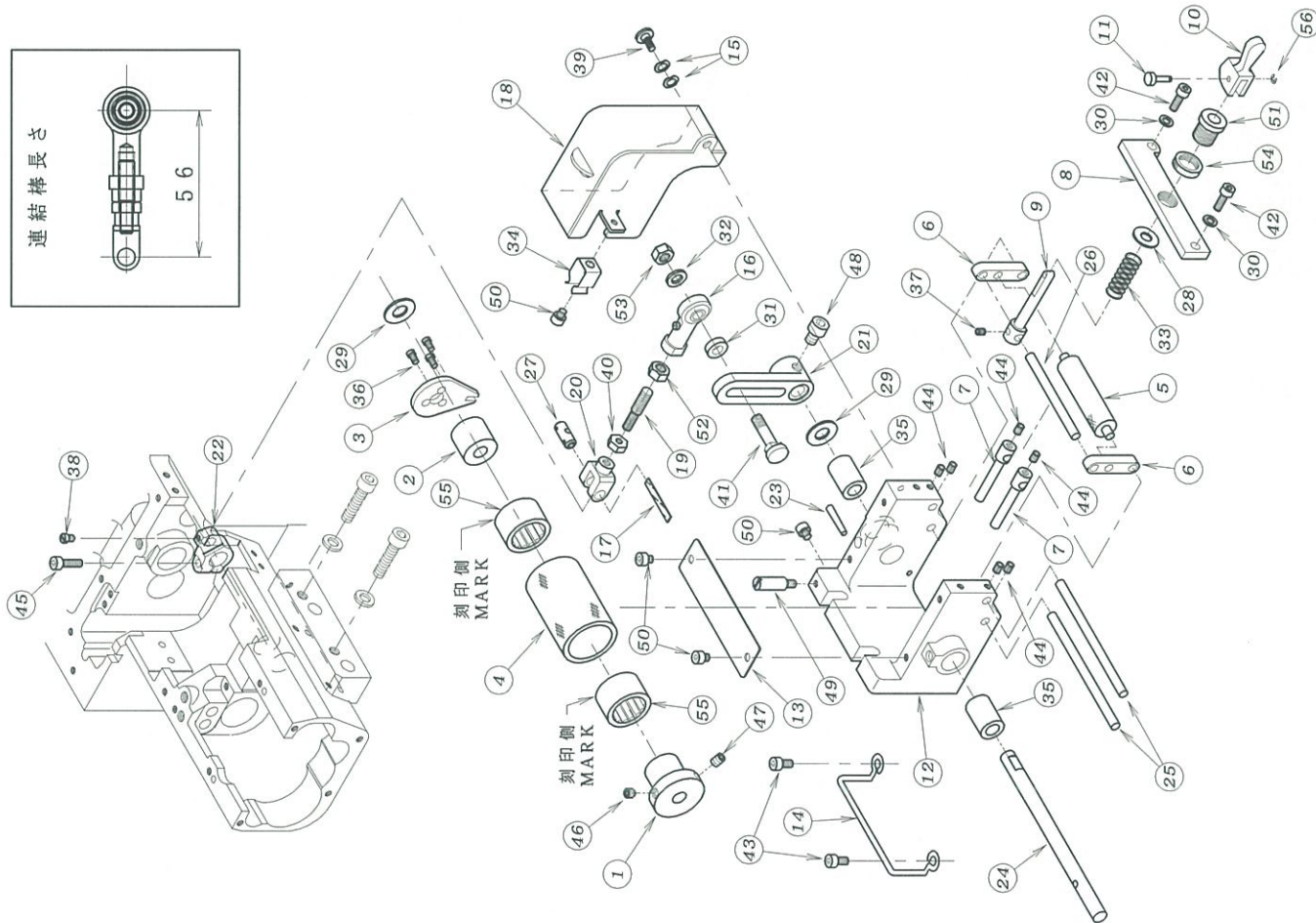
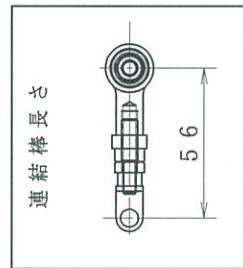
REF.NO.	PART NO.	品 名	DESCRIPTION	Q'TY
39-01	07-542	ホースクランプ	CLAMP	2
39-02	07-572	ホース	HOSE	1
39-03	07-573	ホースバンド	BAND	1
39-04	07-574	感圧パイプ	PIPE	1
39-05	07-575	感圧パイプ取付プレート	PLATE	1
39-06	07-577	ゴムカイト取付棒	ELASTIC TAPE GUIDE BAR	1
39-07	07-578	ゴムカイト	ELASTIC GUIDE	1
39-08	07-579	カイト棒用ストッパー	STOPPER	1
39-09	07-580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

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



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

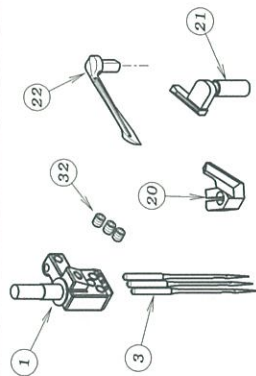
41. MD機構 METERING DEVICE MECHANISM



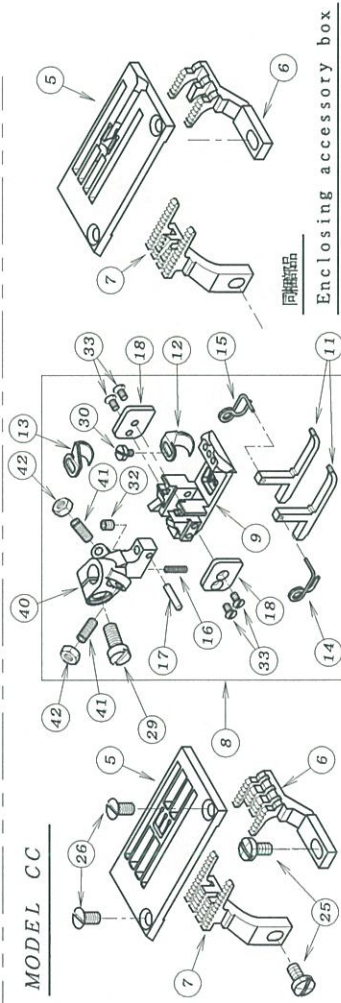
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
41-01101-102	フタ側スリーブ*	SLEEVE	1	
41-02011-103	連結板側スリーブ*	SLEEVE	1	
41-03011-116	前フ* - ラー 回り止め蓋	PLATE	1	
41-04011-132	前フ* - ラー ローレット	PULLER	1	
41-05011-134	前フ* - ラー 小ローラー	LOWER ROLLER	1	
41-06011-136	前フ* - ラー 小ローラー 取り付金具	ROLLER HOLDER	2	
41-07011-138	前フ* - ラー コ* ム案内金具	PIVOT SHAFT HOLDER	2	
41-08011-141	前フ* - ラー 締め金具	RUBBER TIGHTENER	1	
41-09011-143	小ローラー 締め金具	ROLLER CONTROLLER	1	
41-10011-145	ワシタツチ レバ* -	LEVER	1	
41-11011-147	レバ* - 連結ヒ*ン	PIN	1	
41-12011-153	前フ* - ラー 土台	BRACKET	1	
41-13011-154	前フ* - ラー カバー	COVER	1	
41-14011-155	前フ* - ラー 台取付ガイド	GUIDE	1	
41-15021-118	波ワシタツ	WASHER	2	
41-16055-954	ロツト* エント*	ROD	1	
41-17233-341	フェルト	FELT	1	
41-18271-168	前フ* - ラー 連結レバ* - カバー	COVER	1	
41-19653-337	前フ* - ラー 連結棒	CONNECTING BAR	1	
41-20666-131	連結片メカ* ネ	CONNECTING LINK	1	
41-21674-419	前フ* - ラー 連結レバ*	LEVER	1	
41-22677-533	連結レバ*	LEVER	1	
41-23711-227	テ*ハ* - ヒ*ン	PIN	1	
41-24711-350	前フ* - ラー 土台シャフト	SHAFT	1	
41-25711-361	案内棒大	PIVOT SHAFT (LARGE)	2	
41-26711-362	案内棒小	PIVOT SHAFT (SMALL)	1	
41-27711-432	メカ* ネヒ*ン	FEED ROCKER LINK PIN	1	
41-28755-446	ワシタツ	WASHER	1	
41-29755-451	ワシタツ	WASHER	2	
41-30755-468	ワシタツ	WASHER	2	
41-31755-480	ワシタツ	WASHER	1	
41-32755-552	ワシタツ	WASHER	1	
41-33779-171	圧縮バ* ネ	SPRING	1	
41-34719-912	ハ* ネ	SPRING	1	
41-35811-125	ブツジュ	BUSHING	2	
41-36844-162	ネジ*	SCREW	3	
41-37843-314	ネジ*	SCREW	1	
41-38844-365	ネジ*	SCREW	1	
41-39844-396	段ネジ*	SCREW	1	
41-40867-701	ナツト	NUT	1	
41-41870-006	ロツトエント* 止ネジ*	SCREW	1	
41-42877-129	六角穴付きボルト	BOLT	2	
41-43877-177	六角穴付きボルト	BOLT	2	
41-44877-181	ネジ*	SCREW	6	
41-45877-214	六角穴付きボルト	BOLT	1	
41-46877-253	ネジ*	SCREW	1	
41-47877-254	ネジ*	SCREW	1	
41-48877-255	六角穴付きボルト	BOLT	1	
41-49877-268	カハ* - ストップ* ネジ*	SCREW	1	
41-50877-287	六角穴付きボルト	BOLT	4	
41-51877-456	調節ネジ*	SCREW	1	
41-52888-161	ナツト	NUT	1	
41-53888-166	ナツト	NUT	1	
41-54888-456	ナツト	NUT	1	
41-55911-405	ワシタツク	BEARING	2	
41-56993-200	ストップ* リンク*	E-RING	1	

42. ゲージ関係 (1) GAUGE PARTS (1)

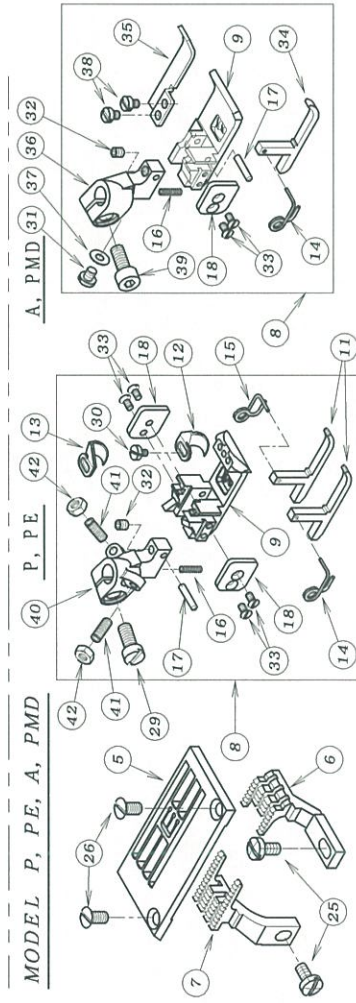
STANDARD



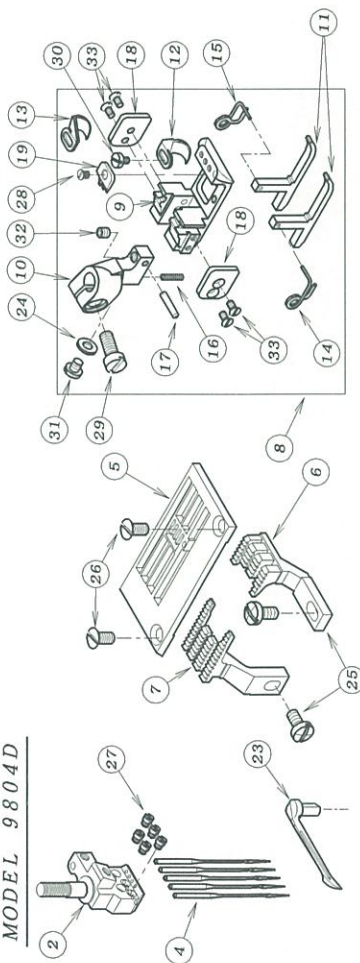
MODEL CC



MODEL P, PE, A, PMD



MODEL 9804D



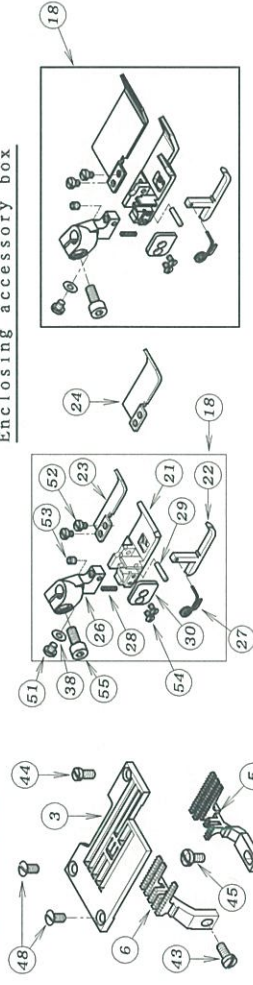
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
42-01	*	針株	NEEDLE HOLDER	1
42-02	*	針株	NEEDLE HOLDER	1
42-03	13-0110-6	針 (UYX128GAS #11)	NEEDLE	3
42-04	13-3020-5	針 (SM1014H #10S)	NEEDLE	5
42-05	*	針板	NEEDLE PLATE	1
42-06	*	前送歯	FRONT FEED DOG	1
42-07	*	後送歯	REAR FEED DOG	1
42-08	*	押えセット	PRESSER FOOT ASS'Y	1
42-09	*	押え足	BOTTOM	1
42-10	17-7680-A	押え足ボス	SHANK	1
42-11	17-7680-B	補助押え足	GUIDE	2
42-12	17-7680-K	生地カ・イト*	GUIDE	1
42-13	17-7680-L	生地カ・イト*	GUIDE	1
42-14	17-8190-D	補助押え足ハネ (左)	SPRING (LEFT)	1
42-15	17-8190-E	補助押え足ハネ (右)	SPRING (RIGHT)	1
42-16	17-8190-F	ハネ	SPRING	1
42-17	17-8190-G	ピン	PIN	1
42-18	17-8190-J	カ・イト* プレート	GUIDE PLATE	2
42-19	17-8430-B	押え爪	STITCH TONGUE	1
42-20	18-805	針受	NEEDLE GUARD	1
42-21	18-806	針カ・イト*	NEEDLE GUIDE	1
42-22	19-525	ルーパー	LOOPER	1
42-23	19-534	ルーパー	LOOPER	1
42-24	75-228	ワッシャ	WASHER	1
42-25	84-374	ネジ	SCREW	2
42-26	84-464	ネジ	SCREW	2
42-27	85-603	ネジ	SCREW	5
42-28	85-616	ネジ	SCREW	1
42-29	87-034	ネジ	SCREW	1
42-30	87-035	ネジ	SCREW	1
42-31	87-083	ネジ	SCREW	1
42-32	87-104	ネジ	SCREW	*
42-33	87-107	ネジ	SCREW	4
42-34	17-8120-E	補助押え足	GUIDE	1
42-35	17-8120-F	補助押え (幅装)	GUIDE PLATE (S)	1
42-36	17-8190-A	押え足ボス	SHANK	1
42-37	75-441	ワッシャ	WASHER	1
42-38	87-093	ネジ	SCREW	2
42-39	87-113	六角穴付きボルト	BOLT	1
42-40	17-9380-A	押え足ボス	SHANK	1
42-41	87-071	ネジ	SCREW	2
42-42	88-136	ナット	NUT	2

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

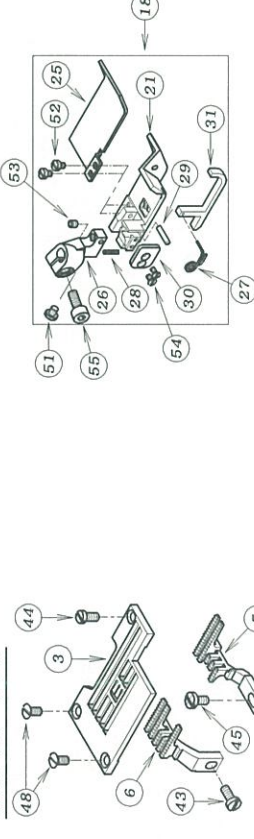
43. ゲージ関係 (2) GAUGE PARTS (2)

MODEL ALK

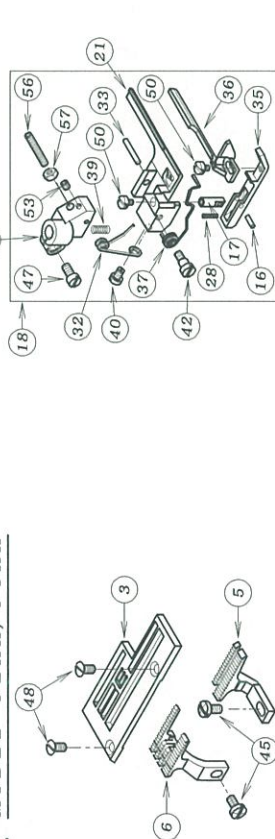
同梱品
Enclosing accessory box



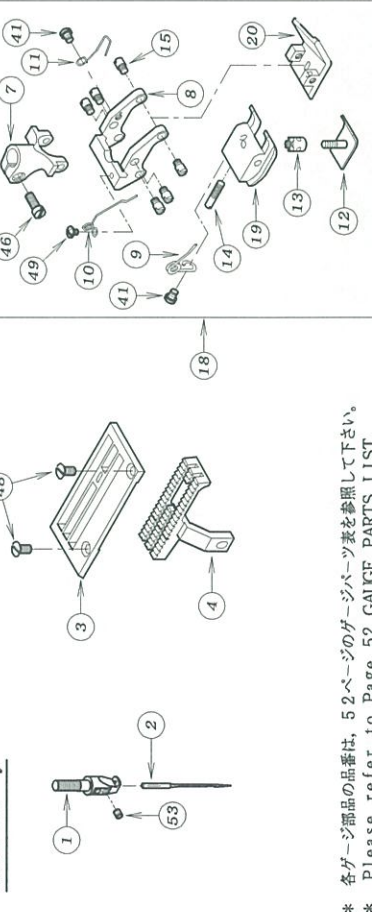
MODEL PLK



MODEL PEHK, PGHK



MODEL J

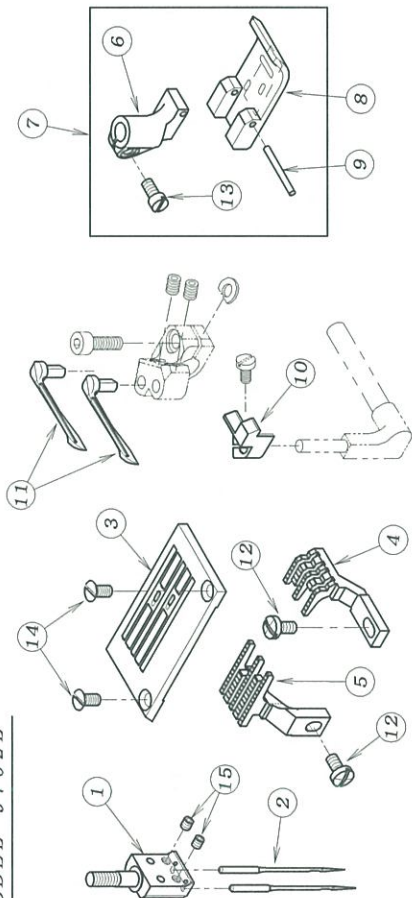


REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
43-01	*	針株	NEEDLE HOLDER	1
43-02	13-1510-5	針 TXV5 #21	NEEDLE	1
43-03	*	針板	NEEDLE PLATE	1
43-04	15-800	送進	FEED DOG	1
43-05	*	前送進	FRONT FEED DOG	1
43-06	*	後送進	REAR FEED DOG	1
43-07	17-5530-A	押えホース	SHANK	1
43-08	17-5530-C	押え足ホルダ	BOTTOM HOLDER	1
43-09	17-5530-D	押えホース	SPRING	1
43-10	17-5530-F	押え足後ハネ	SPRING	1
43-11	17-5530-G	押え足ハネ	SPRING	1
43-12	17-5530-H	押えホース	GUIDE	1
43-13	17-5530-I	押えホース	NUT	1
43-14	17-5530-J	押え足固定ネジ	SCREW	1
43-15	17-5530-K	ネジ	SCREW	6
43-16	17-7760-D	ピン	PIN	1
43-17	17-7760-F	ガイドピン	GUIDE PIN	1
43-18	*	押えセット	PRESSER FOOT ASSEMBLY	1
43-19	17-8000-A	押え足 (後)	BOTTOM (REAR)	1
43-20	17-8000-B	押え足 (前)	BOTTOM (FRONT)	1
43-21	*	押え足	BOTTOM	1
43-22	17-8120-E	補助押え足	GUIDE	1
43-23	17-8120-F	布押え (幅狭)	GUIDE PLATE (S)	1
43-24	17-8120-G	布押え (幅広)	GUIDE PLATE (L)	1
43-25	17-8140-D	布押え (コゝム入れ用)	GUIDE PLATE	1
43-26	17-8190-A	押え足ホース	SHANK	1
43-27	17-8190-D	補助押え足ハネ (左)	SPRING (LEFT)	1
43-28	17-8190-F	ハネ	SPRING	1
43-29	17-8190-G	ピン	PIN	1
43-30	17-8190-J	ガイドプレート	GUIDE PLATE	1
43-31	17-8220-B	補助押え足	GUIDE	1
43-32	17-8260-F	押え足金具ハネ	SPRING	1
43-33	17-8260-G	ピン	PIN	1
43-34	17-8290-D	押えホース	SHANK	1
43-35	17-9290-B	押えホース	GUIDE	1
43-36	17-9290-C	コゝム当て定規	ELASTIC TAPE GUIDE	1
43-37	17-9290-D	ガイドハネ	SPRING	1
43-38	75-441	ワッシャ	WASHER	1
43-39	79-191	ハネ	SPRING	1
43-40	84-161	ネジ	SCREW	1
43-41	84-167	ネジ	SCREW	2
43-42	84-171	假ネジ	SCREW	1
43-43	84-360	ネジ	SCREW	1
43-44	84-362	ネジ	SCREW	1
43-45	84-374	ネジ	SCREW	1
43-46	84-376	ネジ	SCREW	1
43-47	84-382	ネジ	SCREW	1
43-48	84-464	ネジ	SCREW	2
43-49	85-611	ネジ	SCREW	1
43-50	85-621	ネジ	SCREW	2
43-51	87-083	ネジ	SCREW	1
43-52	87-093	ネジ	SCREW	2
43-53	87-104	ネジ	SCREW	2
43-54	87-107	ネジ	SCREW	2
43-55	87-113	六角穴付きボルト	BOLT	1
43-56	87-130	ネジ	SCREW	1
43-57	88-136	ナット	NUT	1

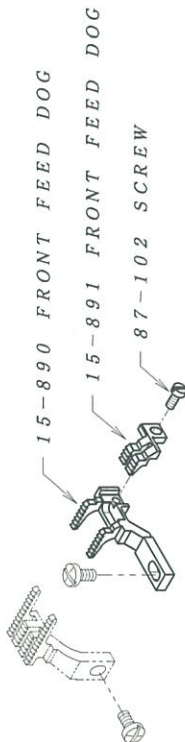
* 各ゲージ部品の品番は、52ページのゲージパーツ表を参照して下さい。
* Please refer to Page 52 GAUGE PARTS LIST

44. ゲージ関係 (3) GAUGE PARTS (3)

MODEL 9702L



OPTION PARTS FOR CC



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

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

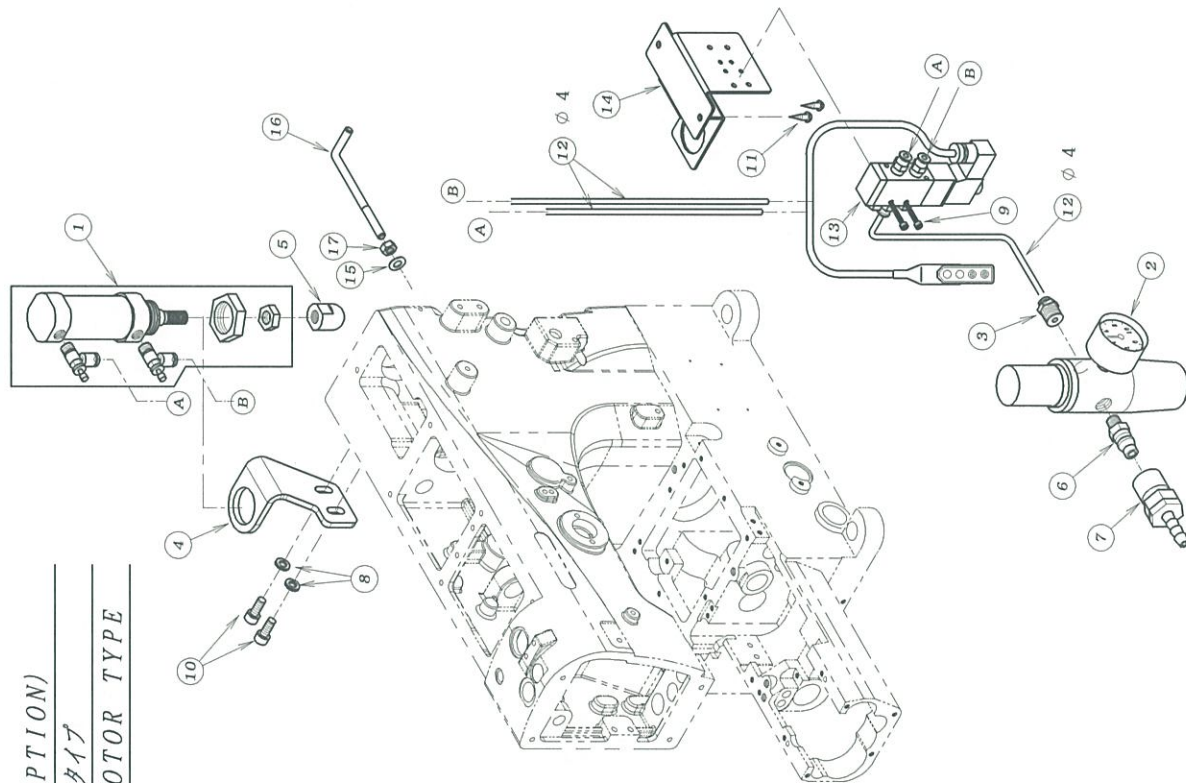
45. 押え揚げ装置 (エア-式) FL-8

FOOT LIFTER MECHANISM (PNEUMATIC TYPE) FL-8

オプション (OPTION)

サーボモータータイプ

SERVO MOTOR TYPE



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

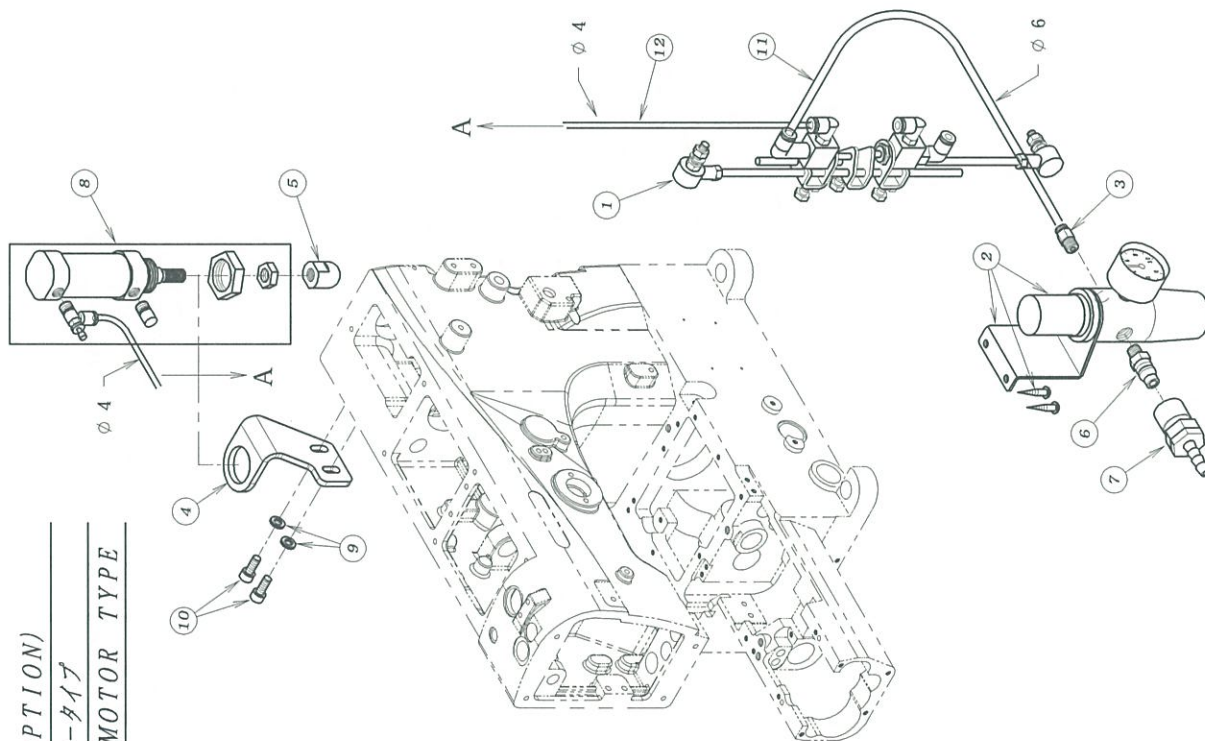
46. 押え揚げ装置 (エア-式) FL-9

FOOT LIFTER MECHANISM (PNEUMATIC TYPE) FL-9

オプション (OPTION)

クラッチセ-タータイプ

CLUTCH MOTOR TYPE



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
46-01	00-8040	吸込み押え揚げ用バルブセット	TREADLE AIR SWITCH ASS'Y	1
46-02	05-212	フィルタレギュレータ	REGULATOR	1
46-03	05-218	レギュレータ-用継手	JOINT	1
46-04	77-032	押え揚げシリンダー-ブラケット	BRACKET	1
46-05	05-897	シリンダー-作動チップ	CHIP	1
46-06	06-516	カプラメス	CONNECTOR	1
46-07	06-517	カプラオス	CONNECTOR	1
46-08	00-6130	押え揚げシリンダー-セット	AIR CYLINDER ASS'Y	1
46-09	75-552	ワッシャー	WASHER	2
46-10	87-171	六角穴付ボルト	SCREW	2
46-11	05-486	チューブφ6x1000mm	TUBE (φ6x1000mm)	1
46-12	05-932	チューブφ4x1500mm	TUBE (φ4x1500mm)	1

47. ゲージパーツ表 GAUGE PARTS LIST

機種 MODEL	タイプ TYPE	針数 NEEDLE	ゲージ GAUGE	針株 NEEDLE HOLDER	押え組 PRESSER FOOT ASS'Y	後送り歯 FEED DOG (REAR)	前送り歯 FEED DOG (FRONT)	針板 NEEDLE PLATE Standard	ルーパー LOOPER	上飾り ルーパー SPREADER	針受 (後) NEEDLE GUARD (REAR)	針ガイド (前) NEEDLE GUARD (FRONT)
NR	CC	3	7/32	12-0260-1	17-9380-1	15-881	15-880	14-871	19-525	19-751 (None UT)	18-805	18-806
						★15-861	★15-862	★14-846				
			1/4	12-0270-1	17-9390-1	15-881	15-880	14-880				
						★15-861	★15-862	★14-847				
	7/32		12-0260-1	17-8120-1	15-881	15-880	14-871					
	1/4		12-0270-1	17-8130-1	15-881	15-880	14-880					
	7/32		12-0260-1	17-9380-1	15-881	15-880	14-871					
	1/4		12-0270-1	17-9390-1	15-881	15-880	14-880					
	ALK	7/32	12-0260-1	17-8120-1	15-854	15-784	14-781					
							14-782					
		1/4	12-0270-1	★17-9360-1			14-812					
							14-813					
	PLK	7/32	12-0260-1	17-8150-1	15-853	15-853	14-929					
		1/4	12-0270-1	17-8160-1			14-930					
	PEHK PGHK	7/32	12-0260-1	17-9290-1	15-869	15-868	14-712					
		1/4	12-0270-1	17-9300-1			14-849					
	D	6mm	12-8480-1	17-7120-1	15-883	15-882	14-800					
		6.4mm	12-8490-1	17-8430-1			19-534					
	J		1		12-8770-1	17-8000-1	15-800		14-800	19-580		
PMD	3	3	7/32	12-0260-1	17-8120-1	15-856	15-855	14-890	19-525	19-751		
			1/4	12-0270-1	17-8130-1	15-858	15-857	14-891				

★同梱部品です。 ★ Enclosing accessory box

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

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

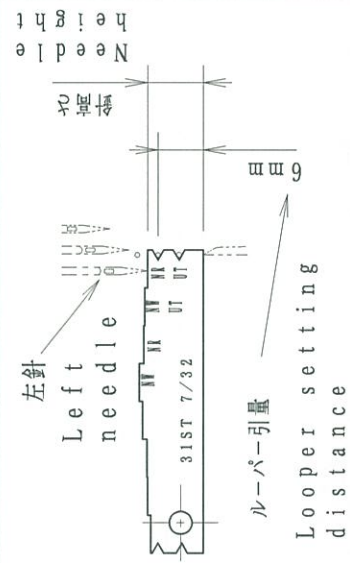
48. 特注針板パーツ表 EXTRA NEEDLE PLATE PARTS LIST

機種 MODEL	タイプ TYPE	針数 NEEDLE	ゲージ GAUGE	標準 Standard	ロングステッチ For long stitch NEEDLE PLATE	ショートステッチ For short stitch NEEDLE PLATE	かまぼこ防止用Uタイプ For soft stitch formation	
							針板 NEEDLE PLATE	ルーパー台 LOOPER HOLDER
NR	CC	3	7/32	14-871	14-871L	14-871S	14-871U	14-871K
	P		1/4	14-880	14-880L	14-880S	14-880U	14-880K
	PE		7/32	14-812	14-812L	14-812S		14-812K
	PLK	3	1/4	14-813	14-813L	14-813S		14-813K
								19-533 19-558 (None UT)

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

特注パーツ EXTRA PARTS

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



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18-0200-2008	REF. PART NO. NO. 品 番	20-1805-067	REF. PART NO. NO. 品 番	25-2706-602	REF. PART NO. NO. 品 番	42-1117-7680-B	REF. PART NO. NO. 品 番	01-3920-0008	REF. PART NO. NO. 品 番	31-0426-556	REF. PART NO. NO. 品 番
18-0100-3282	40-0102-119	20-1905-068	37-1305-932	25-2706-603	38-0607-591	42-1117-7680-B	42-1117-7680-B	01-0623-427	01-0623-427	31-0526-557	31-0526-557
19-0100-4280	26-2205-202	21-1905-294	46-1205-932	25-2806-603	38-0807-593	42-1317-7680-L	42-1317-7680-L	01-0823-504	01-0823-504	31-0626-558	31-0626-558
19-0200-4283	34-1305-202	34-1305-294	27-1405-938	24-1706-604	38-0907-594W	43-1617-7760-F	43-1617-7760-F	15-0423-506	15-0423-506	32-5126-564	32-5126-564
34-2500-6068	14-0105-404	37-4405-938	37-4405-938	25-2906-604	38-1007-595W	43-1717-7760-F	43-1717-7760-F	15-0423-508	15-0423-508	33-0426-565	33-0426-565
27-0200-6082	24-1305-481	27-1505-939	27-1505-939	24-1806-605	38-1107-596	43-1917-8000-A	43-1917-8000-A	29-0223-509	29-0223-509	34-3926-566	34-3926-566
45-0100-6082	37-0405-481	37-4505-939	37-4505-939	25-3006-605	38-1207-597	43-2017-8000-B	43-2017-8000-B	02-1623-510	02-1623-510	33-0126-567	33-0126-567
21-3900-6083	30-0505-212	41-1605-954	23-0205-956	24-1906-608	38-1307-599	42-3417-8120-E	42-3417-8120-E	33-0326-568	33-0326-568	33-0326-568	33-0326-568
21-1800-6114	18-1002-176	23-0205-954	23-0205-956	25-3107-610	38-1407-610	43-2217-8120-F	43-2217-8120-F	02-1723-512	02-1723-512	34-2826-569	34-2826-569
22-3000-6115	18-1102-177	23-0305-957	23-0305-957	24-2006-630	38-1507-611	42-3517-8120-F	42-3517-8120-F	24-2123-512	24-2123-512	33-2426-570	33-2426-570
27-0300-6118	17-1202-178	14-0305-958	14-0305-958	25-3206-630	38-1607-612	43-2317-8120-G	43-2317-8120-G	25-3423-512	25-3423-512	34-4526-571	34-4526-571
30-0100-6118	17-0702-216	23-3005-958	23-3005-958	21-3606-927	38-1707-613	43-2417-8120-G	43-2417-8120-G	38-2423-512	38-2423-512	34-2326-570	34-2326-570
37-0100-6118	17-1202-217	23-0405-961	23-0405-961	22-2706-928	38-1807-614	43-2517-8140-D	43-2517-8140-D	02-1823-513	02-1823-513	33-0726-572	33-0726-572
21-4400-6121	17-1702-218	23-0505-962	23-0505-962	24-3406-928	38-1907-615	42-3617-8190-A	42-3617-8190-A	07-0923-515	07-0923-515	33-3326-573	33-3326-573
21-5100-6123	26-2405-495	23-0605-963	23-0605-963	25-3306-928	38-2007-616W	43-2617-8190-A	43-2617-8190-A	02-0521-640	02-0521-640	40-0326-606	40-0326-606
46-0800-6130	45-1405-644	37-5105-966	37-5105-966	33-3806-935	38-2107-617	42-1417-8190-D	42-1417-8190-D	08-4723-531	08-4723-531	40-0426-608	40-0426-608
21-5000-6140	21-0205-646	37-0605-969	37-0605-969	16-0107-008	39-1207-619	43-2717-8190-D	43-2717-8190-D	08-5123-535	08-5123-535	40-0526-609	40-0526-609
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30-0400-8018	21-4505-648	34-4707-009	45-1305-982	34-4707-009	36-0109-015	42-1617-8190-F	42-1617-8190-F	02-0921-646W	02-0921-646W	02-9426-712	02-9426-712
27-2000-8028	20-2005-658	33-2607-010	11-0106-238	33-2607-010	37-0909-015	43-2817-8190-F	43-2817-8190-F	02-1021-670	02-1021-670	40-0726-751	40-0726-751
26-0100-8031	20-2205-218	34-4807-010	06-0106-239	34-4807-010	36-0209-016	43-2917-8190-G	43-2917-8190-G	02-1121-678W	02-1121-678W	40-0826-752	40-0826-752
26-2600-8036	20-2305-799	33-2807-011	26-2906-282	33-2807-011	36-0309-017	42-1717-8190-G	42-1717-8190-G	02-1221-679	02-1221-679	40-0926-753	40-0926-753
30-3900-8036	20-2105-812	34-4907-011	26-0106-283	34-4907-011	36-0409-018	42-1817-8190-J	42-1817-8190-J	18-2121-715	18-2121-715	02-2726-822	02-2726-822
37-4700-8036	20-2405-822	32-4807-523	37-0206-283	32-4807-523	36-0509-019	43-3017-8190-J	43-3017-8190-J	33-2221-737W	33-2221-737W	31-0726-831	31-0726-831
26-2700-8037	21-0605-828	33-3107-542	22-0206-336	33-3107-542	36-0609-020	43-3117-8220-B	43-3117-8220-B	06-0423-548	06-0423-548	31-0826-832	31-0826-832
30-4000-8037	22-0505-828	34-5407-542	25-2006-367	34-5407-542	37-1009-020	43-3217-8260-F	43-3217-8260-F	06-0523-552	06-0523-552	31-0926-833	31-0926-833
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46-0100-8040	22-2105-829	32-2207-543	25-2206-372	32-2207-543	37-1109-021	43-3417-8290-D	43-3417-8290-D	38-2523-554	38-2523-554	39-2227-026	39-2227-026
26-2800-8045	21-1805-226	32-1507-544	25-2306-374	32-1507-544	36-0809-022	42-1917-8430-B	42-1917-8430-B	33-3321-752W	33-3321-752W	39-2327-027W	39-2327-027W
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41-0301-116	27-0605-897	32-4307-569	26-0606-495	32-4307-569	36-1009-159	02-0314-168	02-0314-168	16-0823-571	16-0823-571	02-3027-213W	02-3027-213W
41-0401-132	27-0605-897	32-4407-570	26-0706-496	32-4407-570	34-1409-504	36-1114-169	36-1114-169	02-3127-214W	02-3127-214W	02-3127-215	02-3127-215
41-0501-134	45-0505-897	33-3007-572	26-0806-497	33-3007-572	34-1509-506	39-2014-170	39-2014-170	02-3227-216	02-3227-216	02-3227-217	02-3227-217
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41-0701-138	20-2705-898	39-0207-572	27-1106-516	39-0207-572	37-1609-506	44-0314-563	44-0314-563	01-1024-060	01-1024-060	02-3627-223W	02-3627-223W
41-0801-141	22-0105-901	33-2907-573	45-0606-516	33-2907-573	35-0309-519	44-0415-769	44-0415-769	02-2225-516W	02-2225-516W	02-9527-227	02-9527-227
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41-1001-145	22-0505-904	39-0307-573	46-0606-516	39-0307-573	35-0509-522	43-0415-800	43-0415-800	14-0527-232	14-0527-232	14-0527-232	14-0527-232
41-1101-147	22-0405-904	39-0407-574	27-1206-517	39-0407-574	35-0609-523	44-0617-4430-A	44-0617-4430-A	02-2325-517	02-2325-517	01-1527-233	01-1527-233
20-0505-054	22-0805-905	30-1206-517	30-1206-517	30-1206-517	35-0709-524	43-0917-5530-D	43-0917-5530-D	06-0625-519	06-0625-519	01-1627-234	01-1627-234
20-0605-055	21-0805-905	39-0507-575	37-0806-559	39-0507-575	35-1209-529	43-0917-5530-D	43-0917-5530-D	02-1523-341	02-1523-341	06-0725-520	06-0725-520
24-0905-279	22-1305-911	39-1007-581	21-3806-580	39-1007-581	35-1309-530	43-1017-5530-F	43-1017-5530-F	02-2425-521	02-2425-521	26-1127-236	26-1127-236
24-1005-280	22-0705-905	39-4307-576	45-0706-517	39-4307-576	35-0809-525	44-0817-5480-B	44-0817-5480-B	02-2525-522	02-2525-522	37-1827-236	37-1827-236
24-1105-281	21-1005-907	39-0607-577	46-0706-517	39-0607-577	35-0909-526	44-0917-5480-G	44-0917-5480-G	34-3225-522	34-3225-522	01-1827-237W	01-1827-237W
24-1205-282	21-2005-910	39-0707-578	34-1206-556	39-0707-578	35-1009-527	43-0717-5530-H	43-0717-5530-H	36-1825-522	36-1825-522	01-1927-238W	01-1927-238W
25-0905-283	22-1205-910	39-0807-579	26-1006-559	39-0807-579	35-1109-528	43-0817-5530-C	43-0817-5530-C	29-1025-524	29-1025-524	01-2027-239	01-2027-239
25-1005-284	21-2105-911	39-0907-580	37-0806-559	39-0907-580	35-1209-529	43-0917-5530-D	43-0917-5530-D	02-2625-527	02-2625-527	01-2127-240	01-2127-240
25-1105-285	22-1305-911	39-1007-581	21-3806-580	39-1007-581	35-1309-530	43-1017-5530-F	43-1017-5530-F	33-1525-527	33-1525-527		
25-1205-286	22-0505-912	39-1107-582	27-1606-580	39-1107-582	35-1409-531	43-1117-5530-G	43-1117-5530-G				
25-1305-287	22-1405-912	38-0107-586	21-1706-597	38-0107-586	34-0209-533	43-1217-5530-H	43-1217-5530-H				
25-1405-288	21-3205-913	38-0207-587	37-4606-597	38-0207-587	34-0309-534	43-1317-5530-I	43-1317-5530-I				
25-1505-289	22-2305-913	38-0307-588	24-1406-601	38-0307-588	34-0409-536	43-1417-5530-J	43-1417-5530-J				
25-1605-290	21-0905-927	38-0407-589	25-2606-601	38-0407-589	34-0409-537	43-1517-5530-K	43-1517-5530-K				
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***NR** Series Instruction Manual*

INTRODUCTION

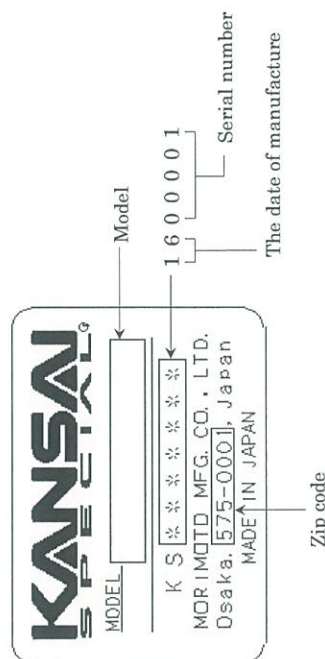
Thank you for your purchasing Kansai Special's NR Series.
Read and study this instruction manual carefully before beginning any of the procedures and save it for later use.

1. This instruction manual describes adjustments and maintenance procedures on this machine.
2. Before starting the machine, check to make sure the pulley cover, safety cover, etc. are secured.
3. Before adjusting, cleaning, threading the machine or replacing the needle, be sure to turn off the power.
4. Never start the machine with no oil in the reservoir.
5. Refer to the parts list as well as this instruction manual before maintenance.

If the machine includes a thread trimmer, read and study the instruction manual for the thread trimmer carefully.

6. The contents described in this instruction manual are subject to change without notice.

Indication of serial number



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[1] NEEDLES & THREADING

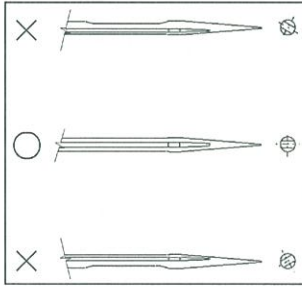
1-1 Needles

UY128GAS of Schmetz , Organ or Groz-Beckert.

Select the proper needle for the fabric and thread.

< Needles and needle size >

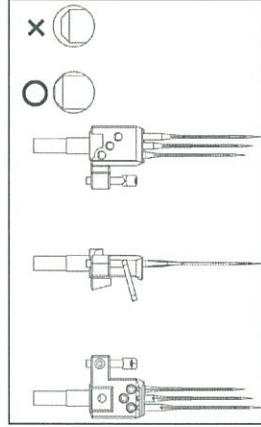
Organ	# 09	# 10	# 11	# 12	# 14
UY128GAS	Nm65	Nm70	Nm75	Nm80	Nm90
Schmetz					
UY128GAS	Nm65	Nm70	Nm75	Nm80	Nm90
Groz					
UY128GAS	Nm65	Nm70	Nm75	Nm80	Nm90



1-2 Replacing the needle

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

Then install the needle correctly.

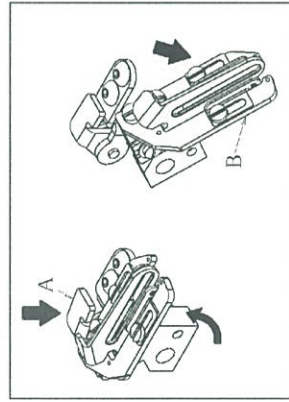


< Note >

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

1-3 Threading to the looper thread support plate

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



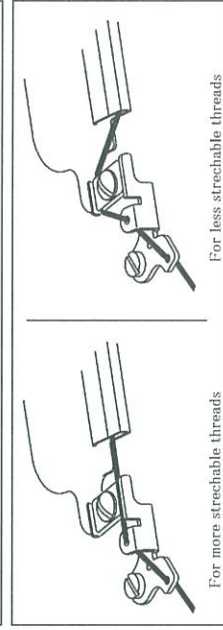
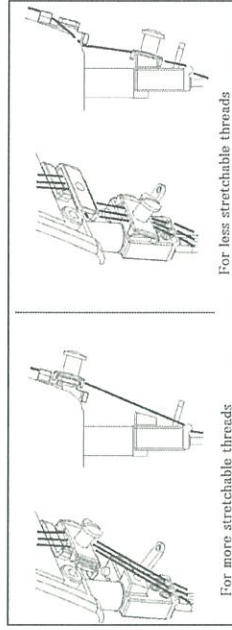
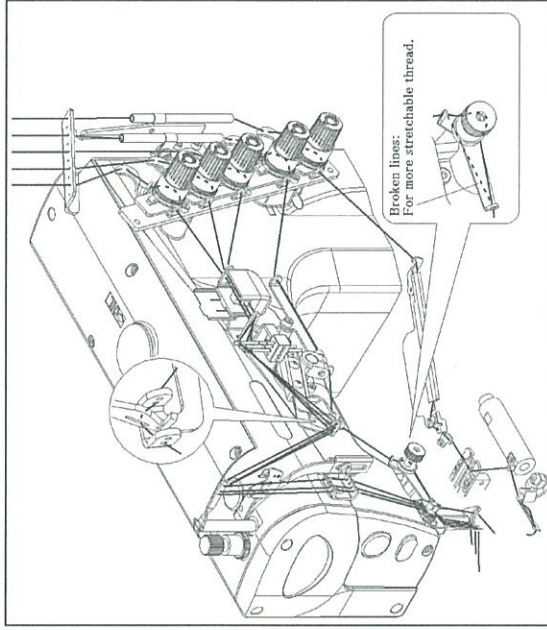
< Note >

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

1-4 Threading

Thread the machine correctly by referring to the illustration below.

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



[2] MACHINE SPEED

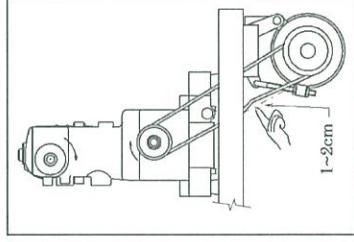
2-1 Machine speed & operating direction

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

2-2 Motor & belt

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

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



NR25

< Machine speed >

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

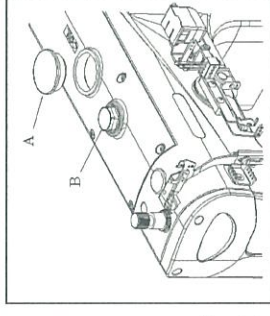
< Motor pulley selection table >

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

[3] LUBRICATION

3-1 Oil

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



3-2 Oiling

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

■ To check for proper oil flow

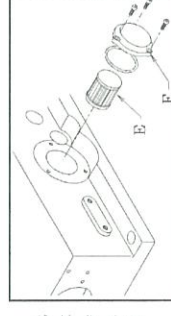
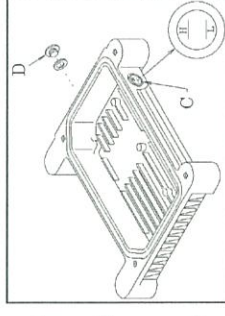
After filling the machine with oil, run the machine to check the oil is splashing to oil flow sight window B.

3-3 Replacing the oil and the oil element

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

To replace the oil, follow the procedures below.

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



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

Replace the element if necessary.

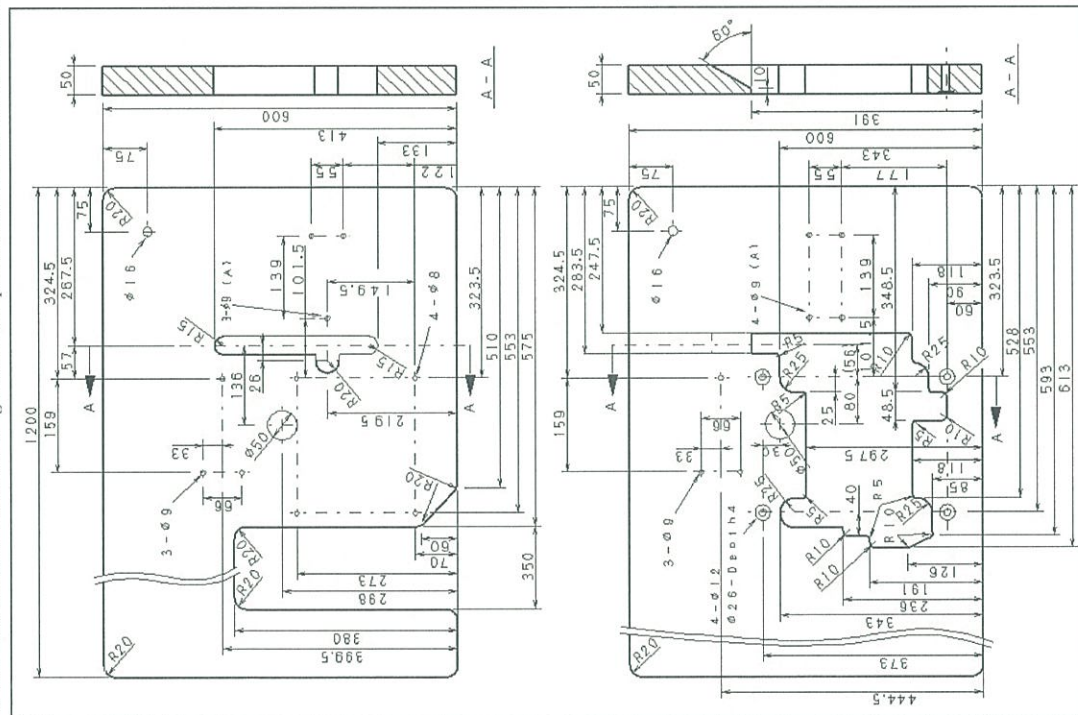
< Note >

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

【4】SEWING MACHINE INSTALLATION

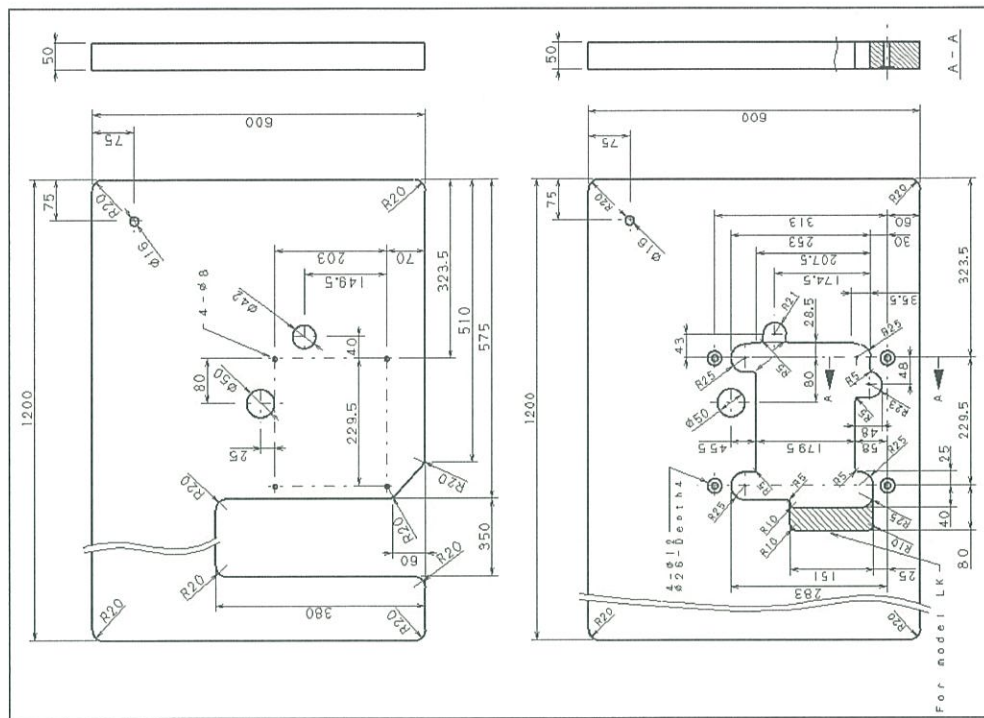
4-1 Cutting the machine table

■ Hole A shown below is for installing the electric presser foot lift (for model P/UTE)



5

■ For the Direct-Drive machine



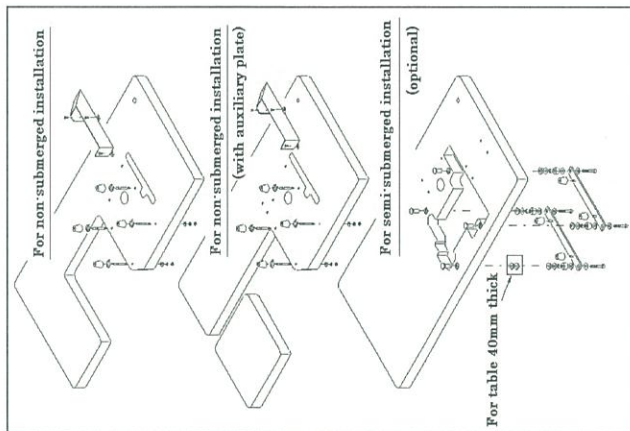
9

4-2 Installing the machine

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

■ Non-submerged installation

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



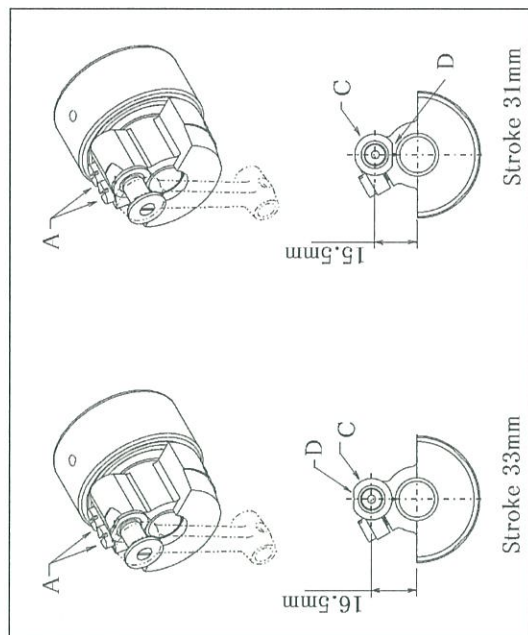
■ Semi-submerged installation

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

[5] TIMING OF THE LOOPER TO THE NEEDLES

5-1 Changing the needle bar stroke

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



< Note >

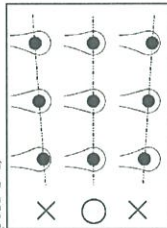
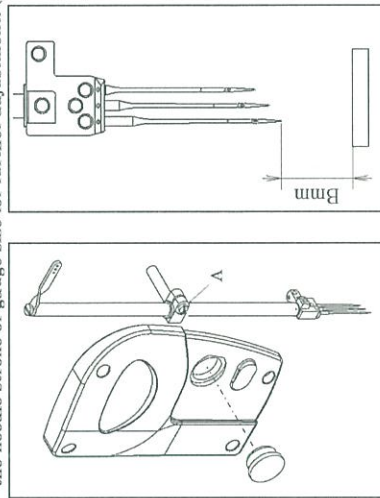
Before changing the needle bar stroke, be sure to turn off the power.

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

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

5-2 Adjusting the needle height

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

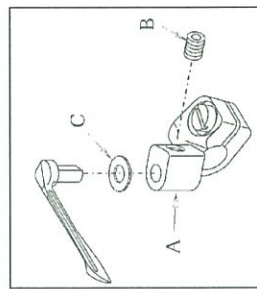
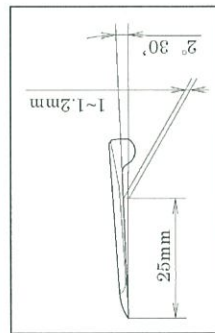


< Note >

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

5-3 Angle and height for installing the looper

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

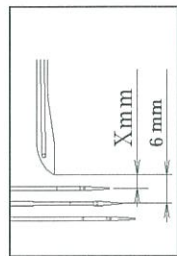
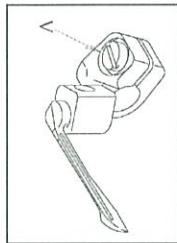


< Note >

There is no need for washer C with UT series.

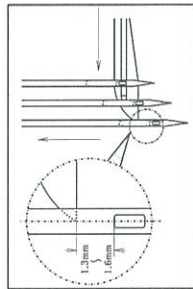
5-4 Looper setting distance

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



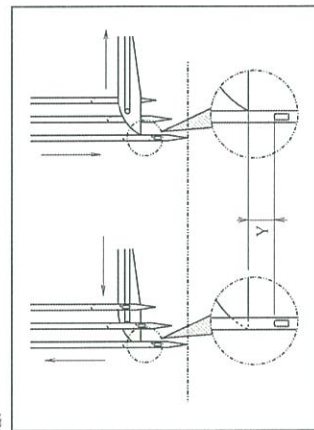
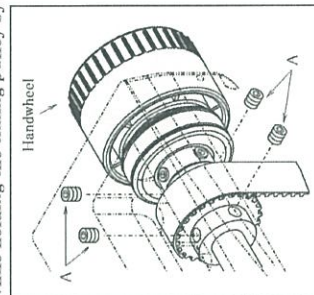
Needle stroke gauge (mm) (inch)	Needle height (Bmm)				Looper setting distance (Xmm)
	None UT		UT		
	31 (STANDARD)		33		
3.2 (1/8)	9.1±0.2	8.6±0.2	10.2±0.2	9.7±0.2	31/33
4.0 (5/32)	8.7±0.2	8.2±0.2	9.8±0.2	9.3±0.2	4.4
4.8 (3/16)	8.3±0.2	7.8±0.2	9.4±0.2	8.9±0.2	4.0
5.6 (7/32)	7.9±0.2	7.4±0.2	9.0±0.2	8.5±0.2	3.6
6.4 (1/4)	7.5±0.2	7.0±0.2	8.6±0.2	8.1±0.2	3.2
					2.8

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



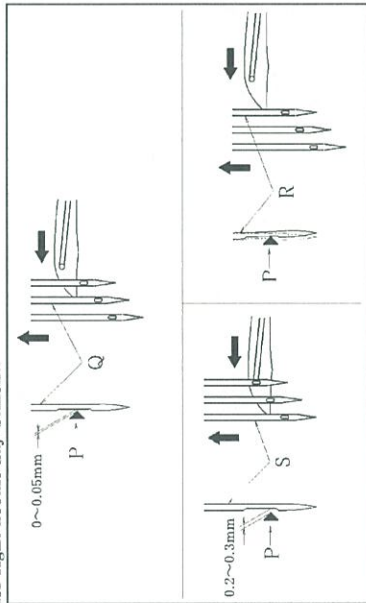
5-5 Needle/looper front-to-back relationship

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



5-6 Adjusting the needle/looper setting distance

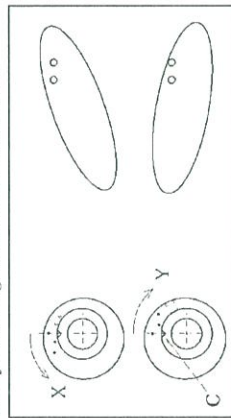
The looper set the clearance between back side of the center needle Q and the point of the looper at 0~0.05mm. To make this adjustment, loosen screw B on the looper holder first. At this time the looper should barely touch the right needle R. And the point of the looper at this position, set the clearance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



< Note >

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

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



< Note >

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

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

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

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

If you use needle counts Nm80~90, adjust the amount as required.

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

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

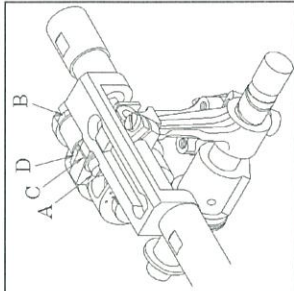
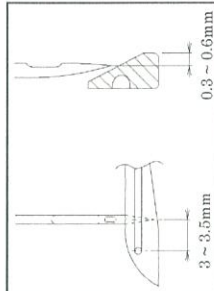
To increase the amount, move alignment mark D on the front-to-back rod to the front from mark C on the looper bar guide. To decrease the amount, move mark D to the back. Adjust according to the needle count.

< Note >

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

< Note >

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

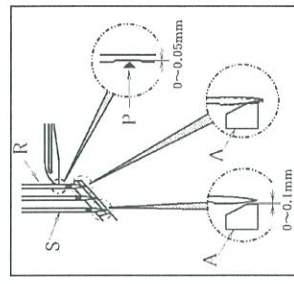
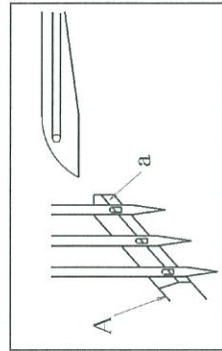


[6] FRONT AND REAR NEEDLE GUARDS

6-1 Position of the needle guard (rear)

Align line a with the center of needle's hole when the needle is at the bottom of the stroke.

Following the 5-6 section, when the point of the looper has reached the center of the right needle (R), the clearance between the needle and the looper should be 0~0.05mm. Loosen screw B and move the needle guard (A) slightly to the front. Then the clearance between the left needle (S) and the needle guard (A) should be 0~0.1mm.



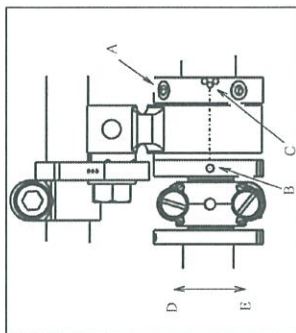
【7】 SPREADER

7-1 Timing of the spreader

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

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

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



7-2 Position of the spreader

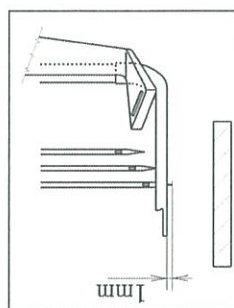
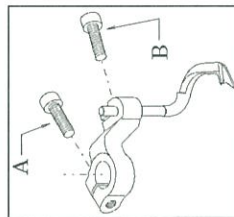
■ Height

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

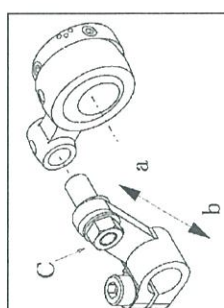
■ Left-to-right position

When the spreader is at the extreme left end of its travel, the distance from the center of the left needle to the point of the thread carrying notch should be 4.5~5.5mm.

When the spreader passes the left needle, the clearance between the point of the thread carrying notch and the left needle should be 0.5~0.8mm. To make the above adjustment, loosen screws A and B.



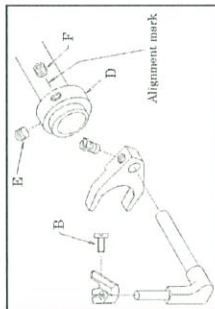
Adjust according to the number of spreader threads and/or the fabric weight. To make this adjustment, remove the arm top cover, loosen nut C and then move the adjusting lever pin in direction (a) or (b). To decrease the amount, move the pin in the direction of (a). To increase the amount, move the pin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



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

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

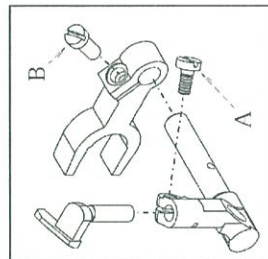
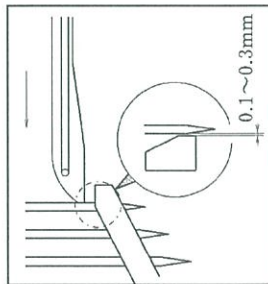
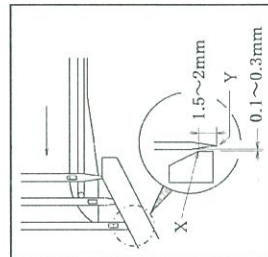
< Note >
Retighten the screws while checking there is no left-to-right shake on the needle guard (A).



6-2 Position of the needle guard (front)

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

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

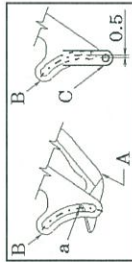
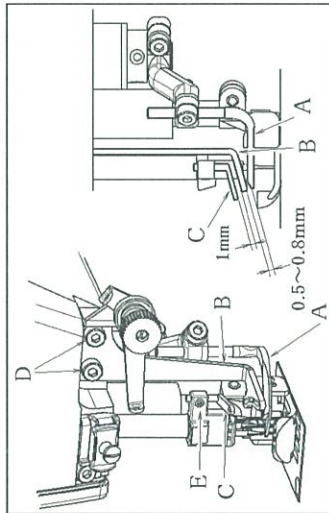


■ To adjust the needle guard front to back, loosen screws B. The vertical adjustment, and angle adjustment, by loosen screw A correctly.

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

7-3 Position of the spreader thread guide

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



【8】 FEED DOGS & STITCH LENGTH

8-1 Feed dog height & tilt

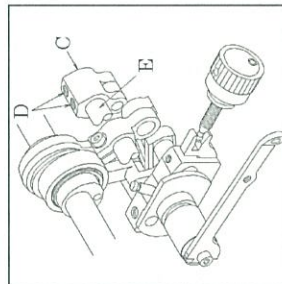
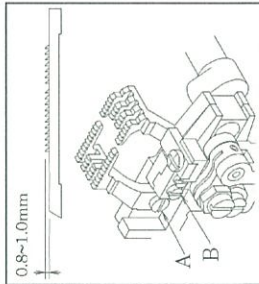
■ Height

When the feed dogs are at the top of their stroke, the feed dog teeth should be parallel with and 0.8~1.0mm above the top surface of the needle plate.

To make this adjustment, loosen screws A and B and move the main (back) and differential (front) feed dogs up or down.

■ Tilt

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



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

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

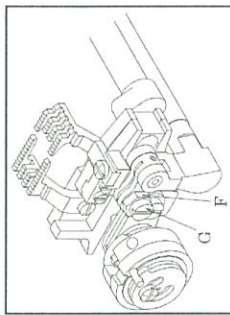
■ Maximum feed dog movement

< Amount of the front feed: 4.0mm >

< Amount of the back feed: 3.6mm >

Center the feed dogs in the needle plate so that they do not touch the needle plate.

To make a fine front-to-back adjustment on the differential (front) feed dog, tighten screw G on front-to-back adjusting eccentric F and turn the eccentric.



8-3 Adjusting stitch length

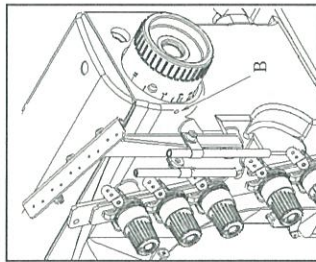
The stitch length is adjustable from 1.4~3.6mm.

The following table shows the number of stitches within 1 inch (25.4mm) or 30mm according to the stitch length.

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

■ To adjust the stitch length

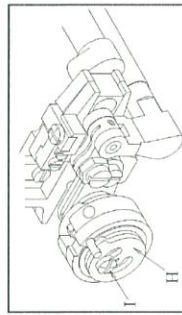
1. Press push button A lightly until its end touches the inside part and clicks.
2. Turn handwheel by hand while pressing the push button lightly until the push button goes further into the depth.
3. Then press down the push button strongly again while turning handwheel as required.
4. Align the desired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



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

To obtain a max. feeding amount of 4.5mm, loosen screw I on stopper H to release stopper H.

Adjust while check to make sure the feed dogs do not touch the needle plate.



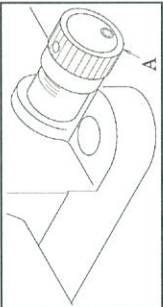
< Note >
Before adjusting the stitch length, be sure to turn off the power.

8-4 Differential feed

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

Adjust the feeding amount of the differential (front) feed dog by positioning differential feed adjusting lever B or turning adjusting knob A.

The normal and reverse differential feeds can be obtained as required.



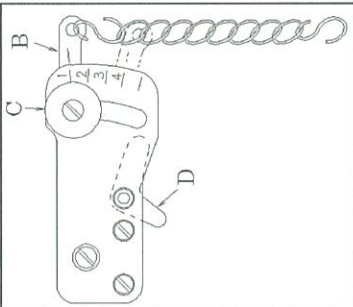
■ Feeding amount of the differential (front) feed dog

The readings indicate the feeding amount of the differential (front) feed dog. Loosen nut C.

Set differential (front) feed adjusting lever B as required at 1.0-4.0mm or adjust by turning adjusting knob A.

■ If you use differential feed lever, secure lever B as required with nut C within the range from the reading which differential feed lever B read when knob A is turned to stopper D.

■ If you change the feeding amount of the differential feed dog during sewing, connect a chain to differential feed lever B.



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

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

Readjust the differential feed ratio.

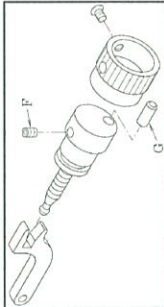
< Differential feed ratio >

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

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

To obtain 4.5mm, loosen screw F and move stop pin G to release the stopping position.

If you change to the maximum feeding amount, adjust the feed dogs front to back while checking to make sure the feed dogs do not touch the needle plate.

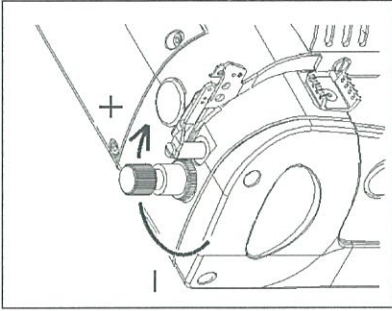


【9】 PRESSER FOOT

9-1 Adjusting presser foot pressure

The presser foot pressure should be as light as possible, yet be sufficient to feed the fabric and produce uniform stitches.

To increase the presser foot pressure, turn the adjusting knob clockwise.



9-2 Position of the presser foot & foot lift

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

■ Position of the presser foot

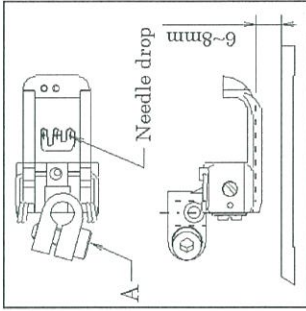
Loosen screw A. Adjust by moving the presser foot left or right while checking to make sure the needle drops correctly to the center of the presser foot needle drop hole.

■ Foot lift

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

Set stopper B at the required position.

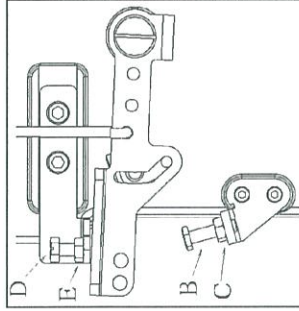
Fasten the presser foot lift lever with nut C so that the lever cannot be lowered.



9-3 Adjusting the float-foot

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

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



< Note >

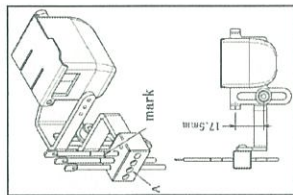
In case of the float-foot is not used, use the sewing machine with the screw E moves to top.

10-1 Position of the needle thread guides

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

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

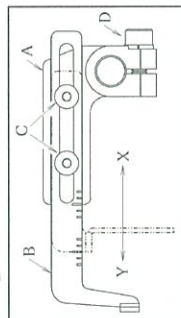
If the stitch formation cannot be changed extremely by adjusting the height of the thread guides because of the thread to be used, unravel the thread after test sewing and adjust the height of the thread guides while checking the tension of the needle thread.



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

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

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

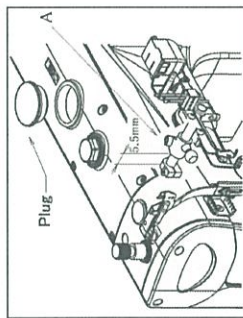


10-3 Timing of the needle thread take-up

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

< Note >

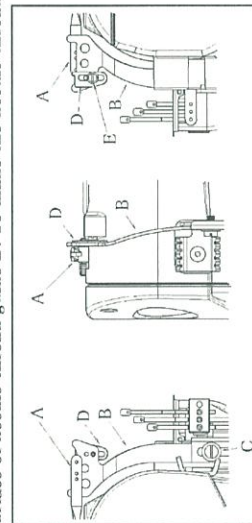
The rod ball is factory-set at 5.5mm from the rear end of the shaft. To make the needle thread loop small, move the rod ball to the front. To make the needle thread loop large, move the rod ball to the back. Remove the rubber top plug. Loosen the screw of (A) with a 5mm wrench. Then move the rod ball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



10-4 Position of the needle thread guide

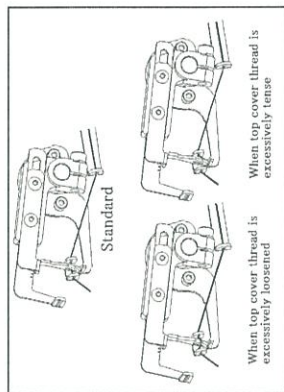
When the needle bar is at the bottom of its stroke, the center of the needle bar eyelet A should be level with the top surface of needle thread guide B. To make the needle thread

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



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

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



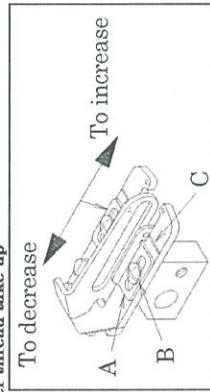
10-6 Position of the thread guide of the looper thread take-up

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

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

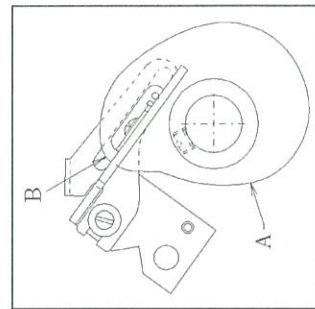
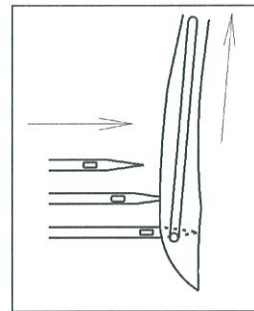
■ To increase the amount of looper thread
Move the eyelet of A to the front.

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



10-7 Position of the looper thread take-up

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



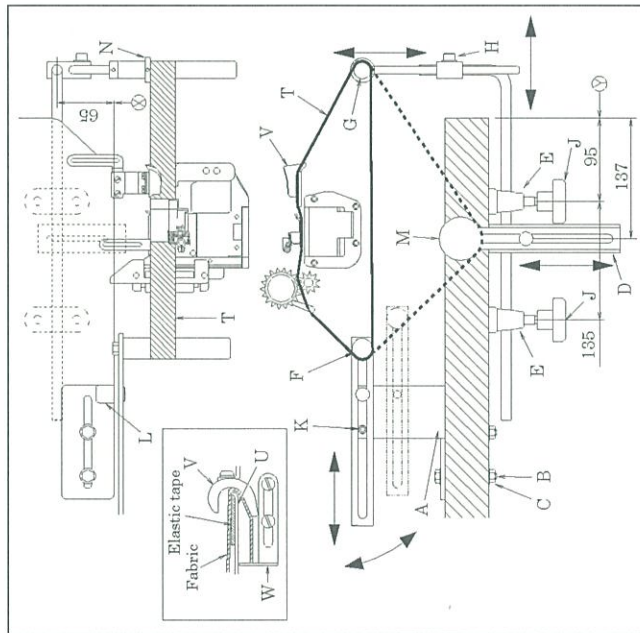
【11】 ADJUSTING THE ALK AND PLK

11-1 Specifications of the ALK and PLK

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

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

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



- Place the fabric on rear roller F and protrude the fabric edge sufficiently to the right to form a hem. Hold the fabric lightly by hand so that the fabric will not move to the left or right. Do not form a hem forcibly during sewing.

It may cause trouble due to the change of tension on the fabric.

- When the start of sewing comes close to lower elastic guide (U) and right fabric guide (V), stop sewing and then press the knee switch under the machine table. The whole elastic guide moves to the left.

Remove the fabric from lower elastic guide (U) and right fabric guide (V).

Sew the fabric while checking to see if the fabric edge is uniform and/or seams at the start of sewing match those at the end of sewing.

- To adjust each elastic tension roller

- Position rear roller F and front roller G according to the size of the fabric which is spread properly. Loosen lever L and adjust rear roller F front to back. The rear roller can be lowered on bracket A by changing the position of screw K. In addition, the rear roller can be adjusted front to back and tilted forward or backward with lever L (see below). If the fabric is large, adjust by moving up or down lower taper roller M. Lower taper roller M can be adjusted up and down easily by loosening the lever.

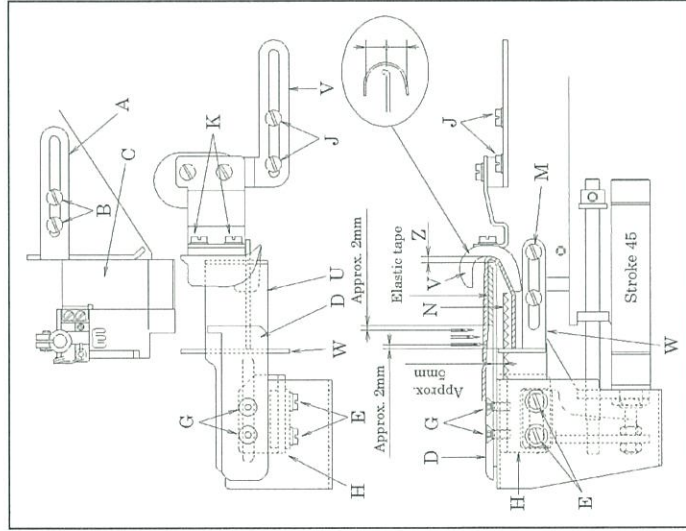
- Adjust elastic guide N for front roller G left to right by positioning elastic guide N correctly along to the right side of the elastic tape. Loosen screw H and adjust the height and direction of the front roller.

Loosen knob J and adjust the front roller front to back.

11-3 Adjusting each holder

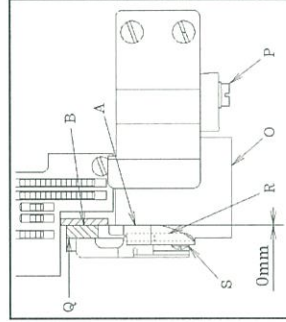
- To adjust the height of the lower elastic guide
The clearance between lower elastic guide U and top surface N of the needle plate is factory-set at approximately 5mm. Adjust this clearance according to the fabric to be used. Loosen screw E and move elastic guide bracket H up or down as required.
To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

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



11-4 Adjusting the hem guide (ALK)

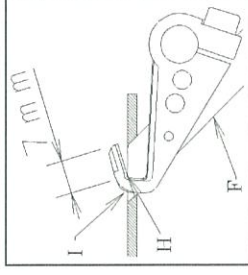
Between A line and B line of the side of upper knife should be same line. To adjustment of hem guide, loosen screw P on the guide O.



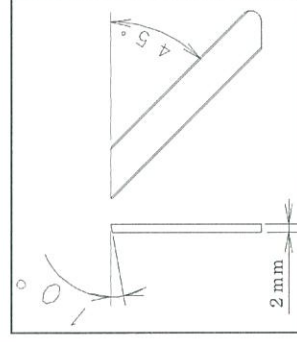
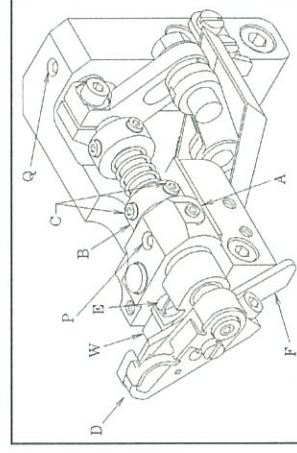
11-5 Adjusting the fabric trimmer positioned to the left of the needle

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

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



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



4. To remove/install the upper knife

<To remove the upper knife >

- Loosen screw G and remove the upper knife bracket D.
- Loosen screw H and remove the upper knife I.

<To install the upper knife >

- Install the upper knife I and tighten screw H.
- Install the upper knife bracket D and tighten screw G temporarily.

- When the upper knife I is at the bottom of its stroke, adjust the overlap of upper knife I and lower knife F by referring to the illustration on the below (1).

And tighten screw G

- To increase overlap, loosen screw C on collar B the overlap are pressure by the spring.
- Place a thread between the upper and lower knives and check for the proper cutting action by turning the machine pulley by hand.
- The distance between the point of upper knife and the point H of the cutting edge of lower knife F should be 7mm and tighten screw C on the collar B.
- Place a thread between the upper and lower knives and check for proper cutting action by turning the machine pulley by hand again.

- To adjust the stroke of the upper knife

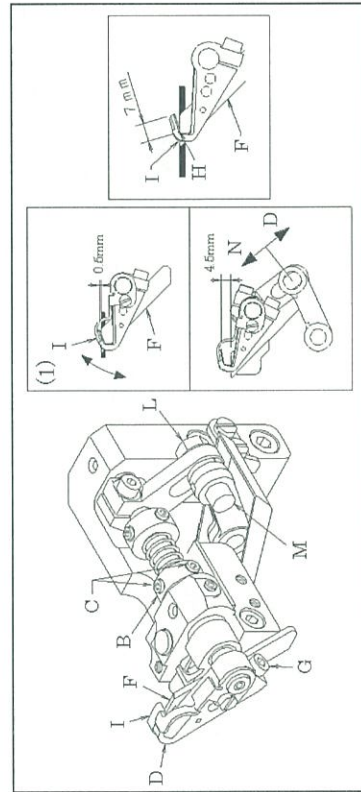
To decrease of upper knife's stroke. Loosen nut L, and the upper knife lever pin M should be move to downward. And tighten nut L.

To increase of upper knife's stroke. Loosen nut L, and the upper knife lever pin M should be move to upward. And tighten nut L.

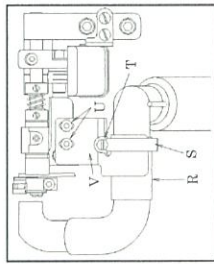
<Note >

When the stroke was changed, the overlap 0.5mm between upper and lower knives needs to re-adjust at the above mention of c to g. Factory adjustment.

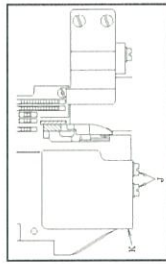
The stroke of upper knife is adjusted by 4.5mm, which is minimum of it (The upper knife lever pin M is the point of bottom). For gaud of upper and lower knives, the distance between the point of upper knife I and the point H of the cutting edge of lower knife F should be 7mm then tighten screw C on the collar B.



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



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

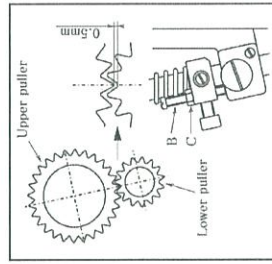


【12】 ADJUSTING THE REAR PULLER

12-1 Position of the hand lever and the stopper

To position or remove the fabric, raise hand lever A.

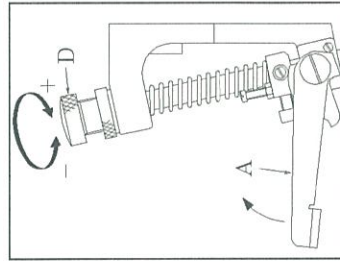
With the hand lever lowered, adjust stopper B so that the clearance between the upper and lower pullers is 0.5mm. Then tighten nut C.



12-2 To adjust the puller pressure

The puller pressure should be as light as possible, yet be sufficient to feed the fabric smoothly.

To increase the pressure, turn adjusting knob D clockwise. To decrease the pressure, turn adjusting knob D counterclockwise.



12-3 To adjust the feeding amount of the rear puller

The feeding amount of the rear puller should be the same as that of the feed dog. Loosen nut E.

To decrease the amount, move upward.

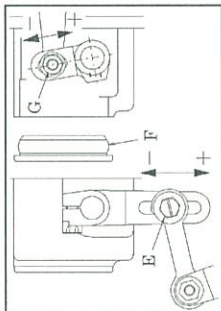
To increase the amount, move downward.

If the proper feeding amount is still not obtained after the above adjustment, remove rubber plug F to increase the unloading, move downward.

and loosen screw G with a hex. wrench.

To decrease the amount, move upward.

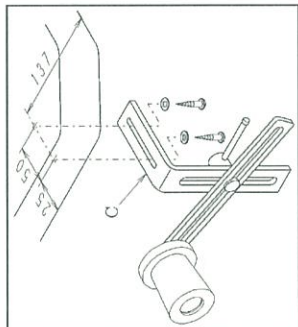
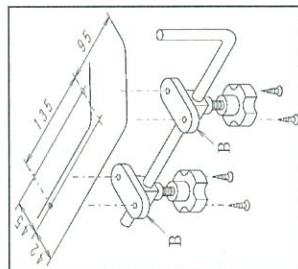
To decrease the amount, move upward.
To increase the amount, move downward.



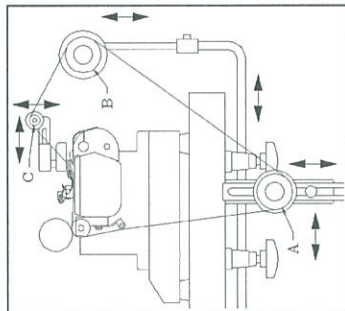
【13】ADJUSTING THE PHK

13-1 Adjusting the roller

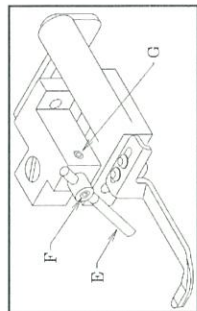
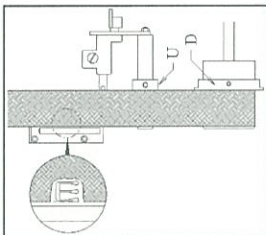
■ Adjustment for elastic band's tension the parts B and C should be fit with the bottom surface of table correctly with referring to dimensions.
(see the illustration)



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



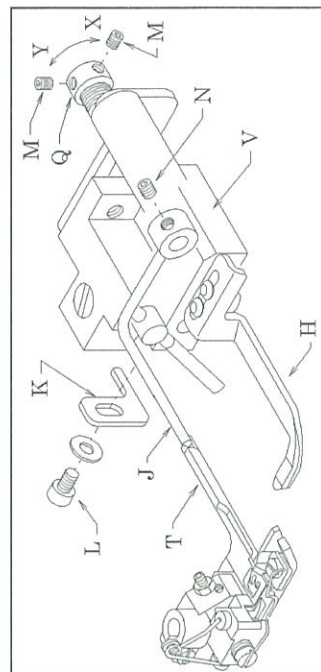
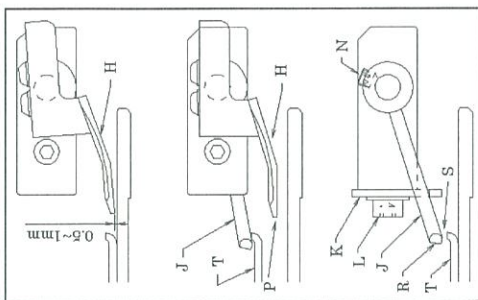
■ In order to locate the elastic band by moving properly (L-R direction). Adjust by the elastic slast collar D on the front roller B, the elastic guide collar U on the front roller C, and the elastic guide pole E on the upper side of the ruler plate. 25~45cm widths of the elastic band can be used.



13-2 Adjusting the cloth presser

1. Spring pressure of the cloth presser can be adjusted by loosening screw M on the collar Q. Turning the collar to the direction of arrow X can strengthen spring presser, and turning the collar to the direction of arrow Y can weaken it.
2. Make the distance of 0.5~1.0mm between the edge P of the cloth presser H and needle plate when presser foot descends as shown in the figure. Locate the edge P of the cloth presser H at the middle point between needle plate and presser foot.

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



13-3 Adjusting the knife apparatus

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

<Note >

Do not tighten the screw A on the lower knife too much.

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

<Note >

Insert some oil from a hole E periodically.

2. How to detach/attach the lower knife

<Detaching the lower knife>

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

<Attaching the lower knife>

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

3. How to detach/attach the upper knife.

<Detaching the upper knife>

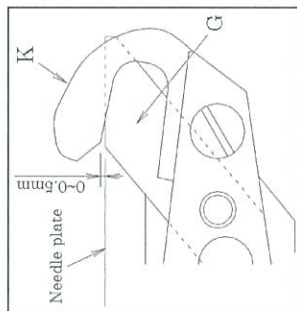
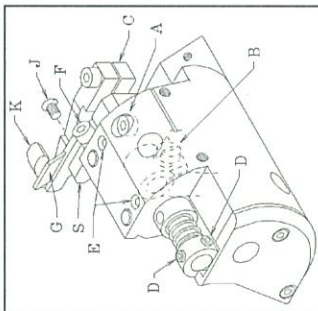
- a. Temporally tighten screw B at which you can see the screw J on the upper knife, while loosening.
- b. Detach the upper knife by loosening screw J on the upper knife K.

<Attaching the upper knife>

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

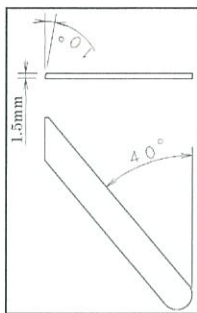
4. Adjusting the contact of the upper and the lower knives.

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



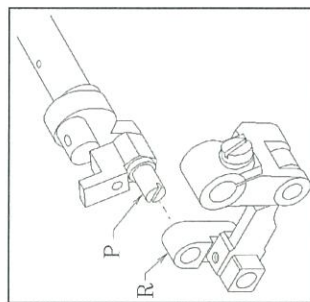
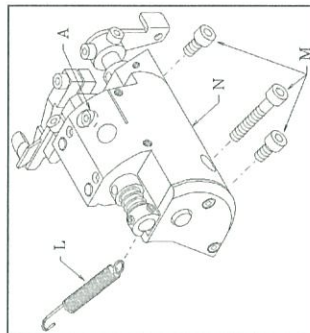
5. How to grind knives.

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



6. How to detach the right knife table.

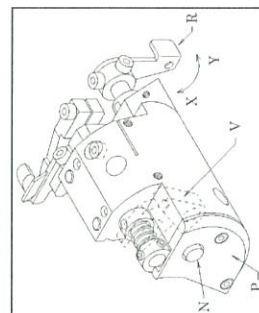
- a. Open the side cover and detach upper knife adjust spring L.
- b. Remove 3 screws M on the right knife table N.
- c. Move the needle bar to the upper death point by rotating puller manually.
- d. Detach the right knife table from its bed. You can loosen screw A on the lower knife table if you cannot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



13-4 Adjusting the mechanism of knife drops

1. In case you function the mechanism of knife drops.

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

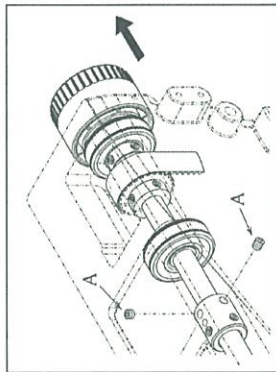
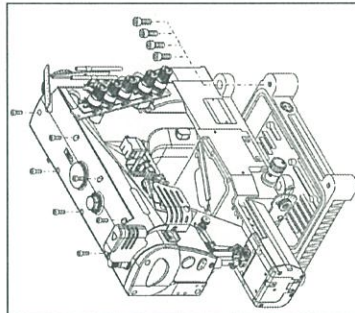


- c. Pull the drop lever R to the direction Y slightly until the edge of the push bottom N touches the upper knife adjust lever V. You can lock the movement of the upper knife after this.
- d. In order to unlock it, push the drop lever R to the direction of Y. Push bottom N will be away from the upper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

【 14】 REPLACING THE TIMING BELT

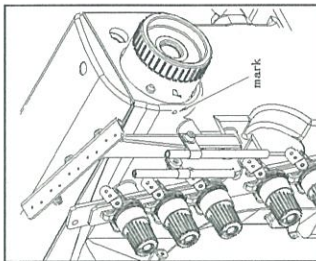
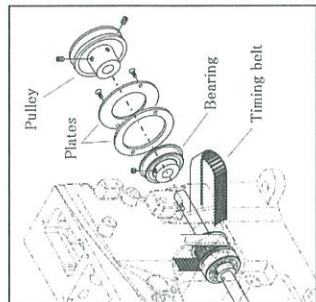
14-1 To remove the timing belt

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



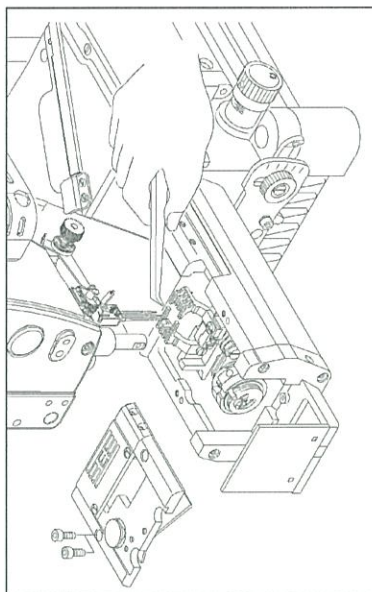
14-2 To place the timing belt

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



【 15】 CLEANING THE MACHINE

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



NR-UT *Series Instruction Manual*

INTRODUCTION

*Thank you for your purchasing Kansai Special's NR/UT Series.
Read and study this instruction manual carefully before beginning any of
the procedures and save it for later use.
This instruction manual describes adjustments and maintenance
procedures for the thread trimmer.
Refer to the NR Series instruction manual for other information.*

NR-UTseries

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NR-UTseries

【1】 HOW TO USE THE THREAD TRIMMER

< Note >

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

- Pressing the pedal with toe (position A) starts the machine. Releasing the pedal (position B) stops the needle at the top/bottom of its stroke (adjustable with the motor).
- If the needle stops at the bottom of its stroke as adjusted, pressing the pedal with heel (position C) raises the needle. As soon as the needle stops at the top of its stroke by pressing the pedal with heel, the thread trimmer gets actuated (if the needle stops at the top of its stroke as adjusted, the thread trimmer gets actuated by pressing the pedal with heel).
- Returning the pedal to position B lowers the presser foot.
- The presser foot can be raised or lowered freely by releasing the pedal (position B) or pressing the pedal with heel (position C) until the pedal is placed at position A for the next sewing operation after the threads are cut.

【2】 INSTALLING THE POSITION DETECTOR

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

< Note >

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

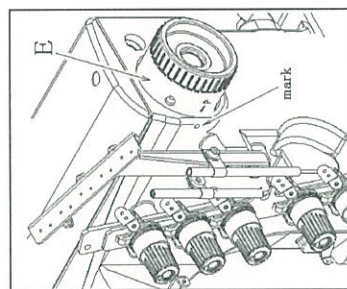
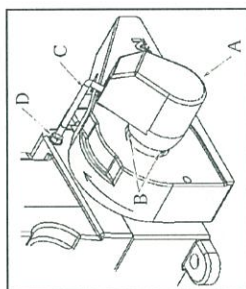
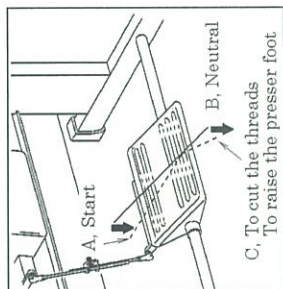
- Press the pedal with heel after two to three stitches are formed by pressing the pedal with toe.
- Loosen screws B for the position detector.

Turn the machine pulley while checking that the position of screws B is not shifted. Align mark P on handwheel E with the alignment mark on the arm.

Then the needle bar is at the top of its stroke.

Tighten screws B to secure the position detector.

- Check to see if the needle bar stops at the top of its stroke by pressing and then releasing the pedal.



【3】 ADJUSTING THE THREAD TRIMMER AIR CYLINDER (UTA)

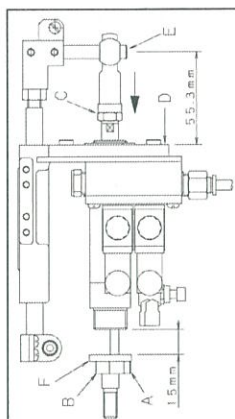
3-1 Air cylinder stroke

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

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

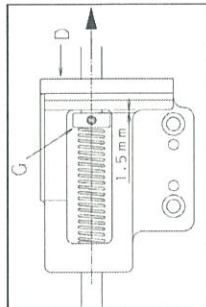
To position shaft E, loosen nut C.

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



3-2 Air cylinder return spring

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



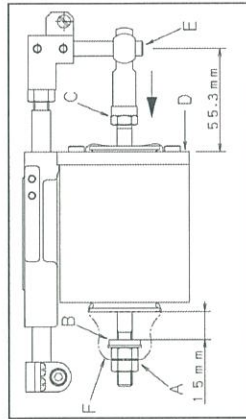
【4】 ADJUSTING THE THREAD TRIMMER SOLENOID (UTE)

4-1 Solenoid stroke

The stroke of the solenoid should be approximately 15mm.

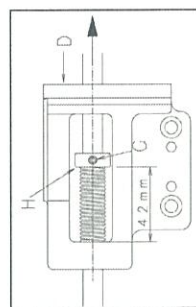
To adjust this stroke, remove rubber cover F and loosen nut A.

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



4-2 Adjusting the solenoid return spring

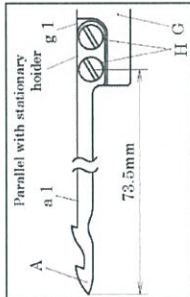
With the solenoid plunger protruded, there should be approximately 42mm clearance between collar H and bracket D. To make this adjustment, loosen screw G of solenoid return spring collar H.



[5] ADJUSTING THE THREAD TRIMMER

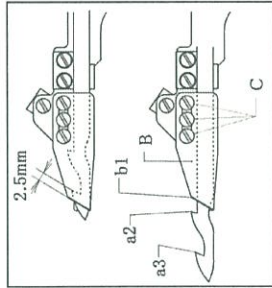
5-1 Position of the movable knife and the stationary knife

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



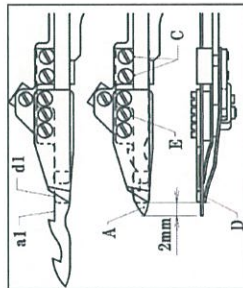
- Relation between the stationary knife and the movable knife.

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



5-2 Adjusting the loop thread clamp spring

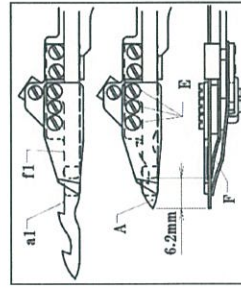
Position of loop thread clamp spring D so that the part (a 1) of movable knife and the part (d 1) of loop thread clamp spring are on the same plane.
And adjust it will protrude approximately 2mm from the point of movable knife A when movable knife is at the extreme right. Adjustment is made by loosening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



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

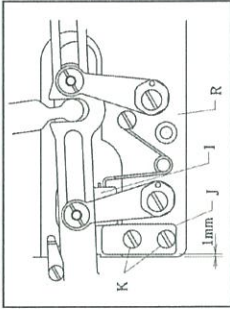
5-3 Adjusting the movable knife pressure spring

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



5-4 Adjusting the stationary knife holder stopper

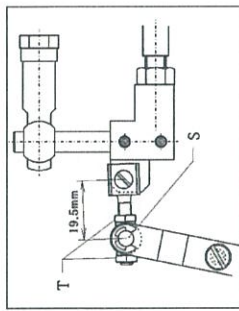
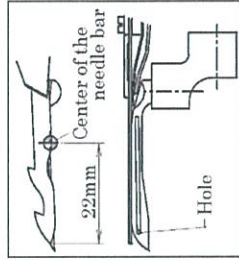
The stationary knife holder I slides to the left and stops by stationary knife holder stopper J.
Never slide the stationary knife holder I to the left too much because the loop thread clamp spring touches the loop.
The adjustment is made by loosening screw K and moving stationary knife stopper left and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



5-5 Adjusting the movable knife holder left and right

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

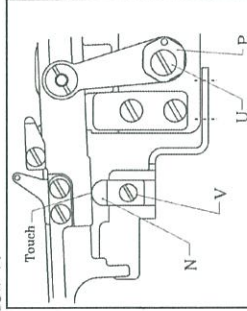
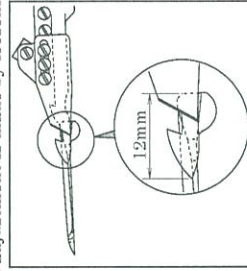
To make the above adjustments, loosen nut T and move the pin S make a fine left-to-right adjustment by turning nut T. The point of the movable knife is center between the point of the loop and the eye's of the loop when move extremely left position of the knife.



5-6 Adjusting the movable knife front to back

To adjust the movable knife front to back, center the point of movable knife over the loop with the point of movable knife 12mm moved to the left from the right end of loop. To adjust, when loosening screw U and turning guide lever P clockwise, the movable knife point moves forward and turning it counterclockwise, the point moves backward.

At the same time, movable knife holder guide N should slightly touch the end of movable knife holder. The adjustment is made by loosening screw V.

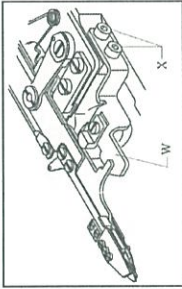
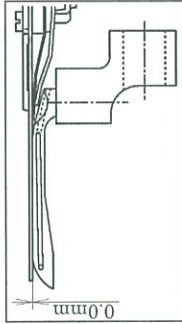


< Note >

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

5-7 Adjusting the movable knife up and down

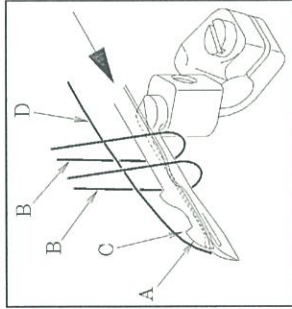
There should be a clearance of 0mm between movable knife and the top surface of looper. The adjustment is made by loosening screw X and moving stationary knife holder guide. After the above adjustment, make sure the movable and stationary knife holders move smoothly.



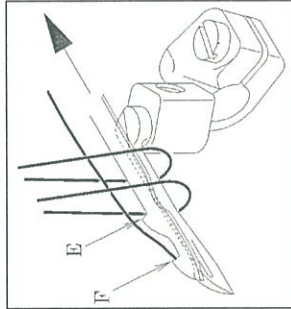
5-8 Relationship between the movable knife, needle thread and looper thread

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

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

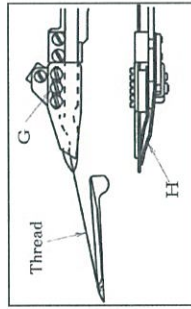


- When the movable knife is returning home, the needle threads and looper thread are pulled to the right by cutting edges E and F and cut by the stationary knife.



5-9 Looper thread clamp spring pressure

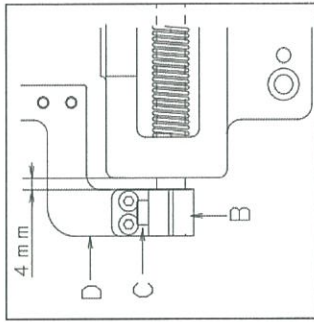
The looper thread clamp spring holds the looper thread after it is cut. To adjust the pressure of thread clamp spring H, turn adjusting screw G. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise. The machine is supplied with a spun thread (#60). The pressure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



[6] ADJUSTING THE THREAD RELEASER

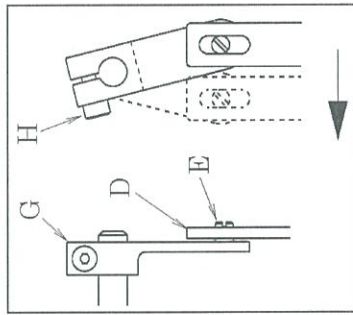
6-1 Thread releaser block

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



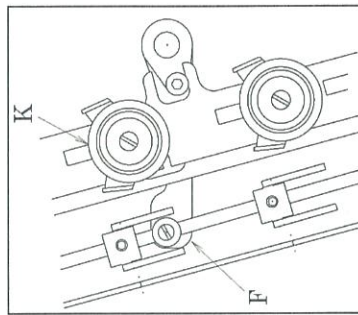
6-2 Thread releaser connection plate

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



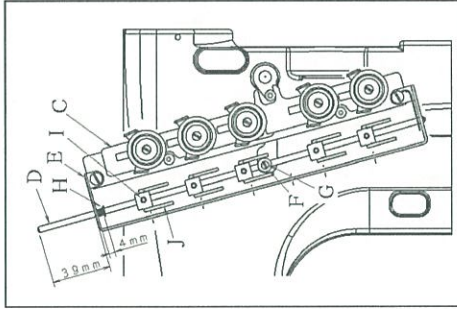
6-3 Thread releaser lever

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



6-4 Thread releaser plate

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

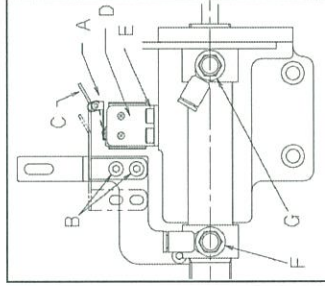


6-5 Thread releaser hook

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

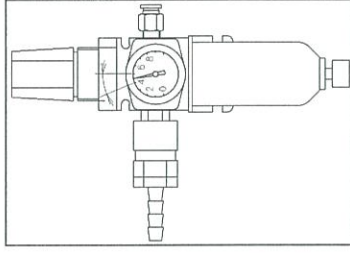
[7] SAFETY DETECTOR

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



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

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

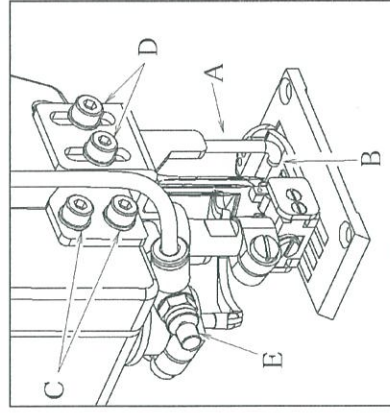
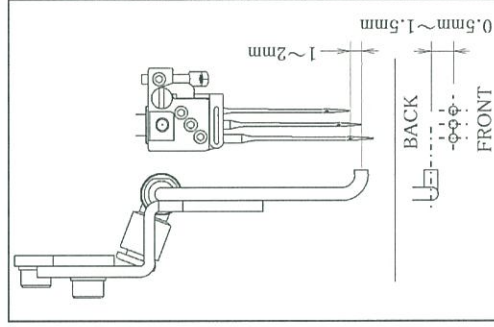


<Note>

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

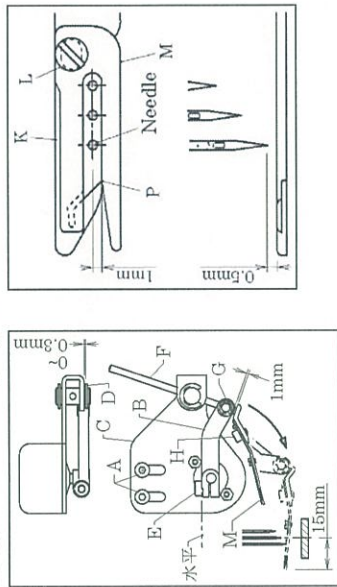
[9] AIR WIPER ADJUSTMENT (UTA, UTAB)

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



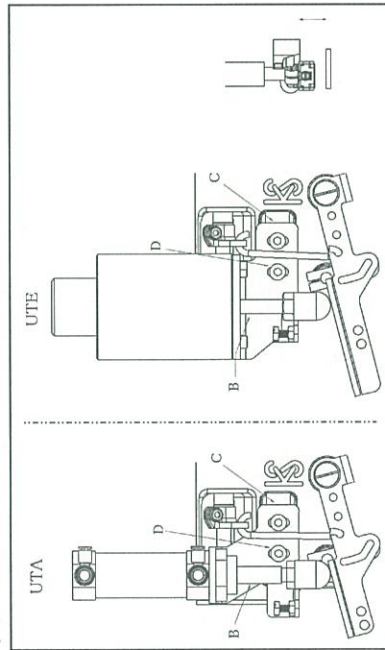
【 10】 THREAD WIPER ADJUSTMENT (UTE)

- Tighten screw E to position lever B horizontally. There should be a 0 to 0.3mm clearance between bracket C and stopper ring D.
- Position thread wiper K with screw H. The distance between the left end of the thread wiper and the center of the needle bar should be approximately 15mm when the thread wiper is all the way to the left and clearance between the needle center and point P of the thread wiper should be approximately 1mm.
- The distance between the left needle and thread wiper K should approximately 0.5mm with screw A.
- Position of thread wiper K is parallel with flat spring M with screw L.



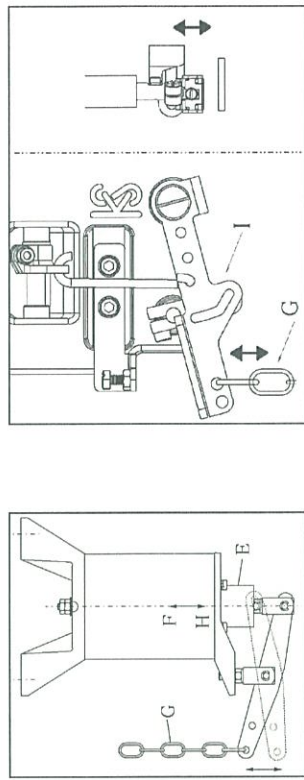
【 11】 ADJUSTING THE PRESSER FOOT LIFT

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



■ Electric presser foot lifter for P-UTTE

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

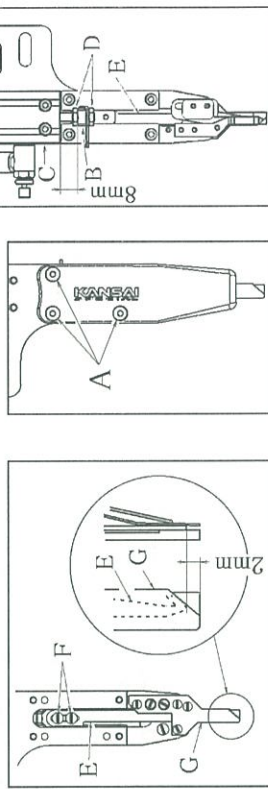


【 12】 ADJUSTING THE TOP COVER THREAD TRIMMER

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

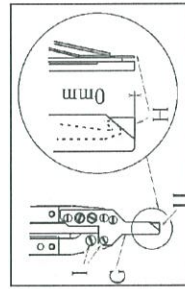
When the movable knife E retracts all the way, Set the clearance between mount bracket B and the end of the air cylinder C at 8mm. Tighten nut D.(Model for UTA)

When the movable knife E retracts all the way, Set the clearance between the end of fixed knife G and the top of the movable knife E at 2mm. Loosen screw A to open the cover, then loosen screw F and adjust knife position.



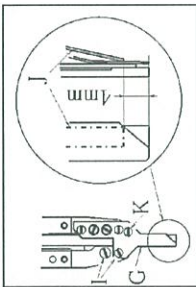
12-2 Adjusting the top cover thread clamp spring

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



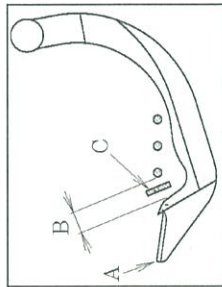
12-3 Adjusting the top cover thread rear spring

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



12-4 Adjusting the thread clamp pressure

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

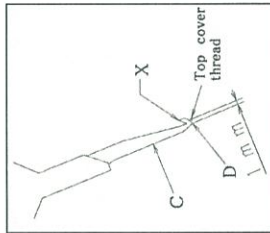


12-5 Adjusting the movable knife left to right

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

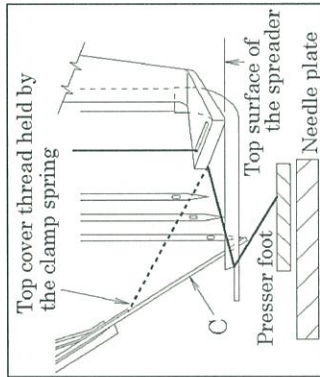
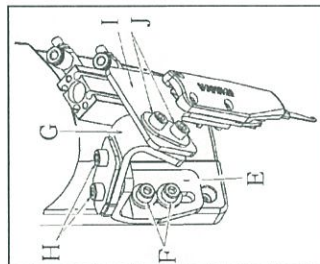
12-6 Adjusting the movable knife front to back

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



12-7 Adjusting the height of the movable knife

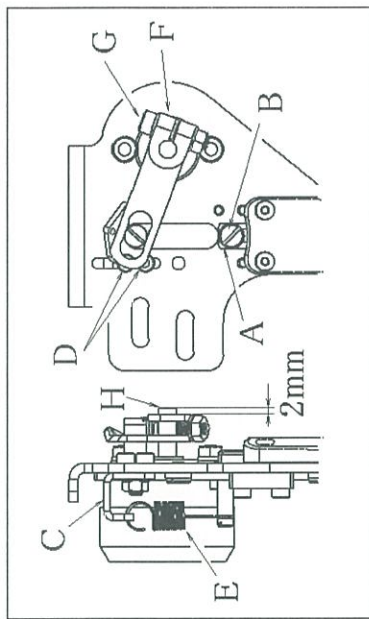
When the movable knife is at the bottom of its travel, hook point X of the movable knife should be aligned with the top surface of the spreader. Then tighten screws F when bracket E is in the lowest position. In case of the UTE series, adjustment is made by moving stoppers A. Loosen screw B for stopper.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



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

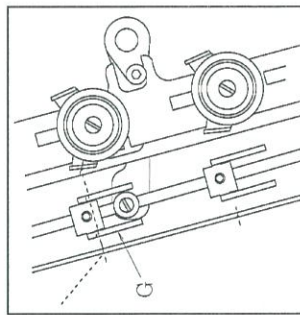
12-8 Adjusting the solenoid return spring (UTE)

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



12-9 Adjusting the top cover thread releaser hook

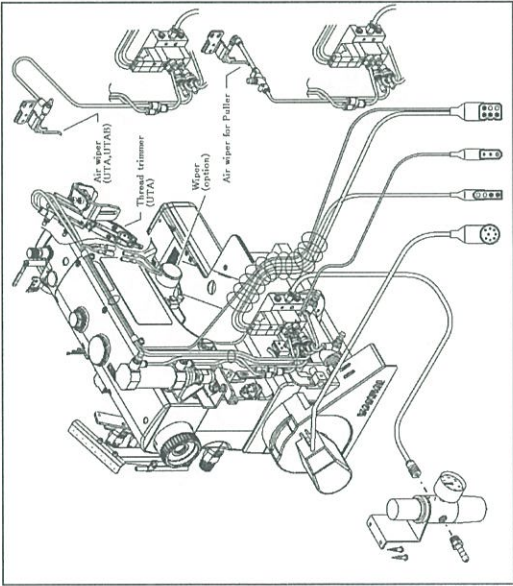
To decrease the amount of the thread supplied by the thread take-up, move up thread releaser hook G. To increase the amount of the thread supplied by the thread take-up, move down thread releaser hook G. If the amount is too small, the top cover thread cannot be held after it is cut.



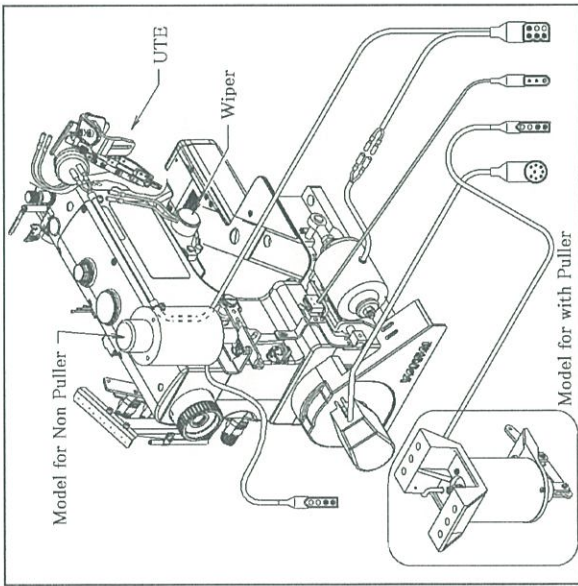
[13] WIRING AND PIPING FOR PNEUMATIC DEVICES

■ **Model for UTA, UTAB**

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



■ **Model for UTE**



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