

PARTS LIST & INSTRUCTION

from the library of Dian

NR ***SERIES***

Industrial Sewing Machines

2021 年 11 月 第 4 版 発行

4th edition : November 2021

No. 210135

KANSAI
SPECIAL®

■このパーツブックは、2021年11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 November 2021.

■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. **from the library of Dian**

■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ミシンです。(PNEUMATIC TYPE)

UTA is with thread trimmer unit.

UTEは電気式糸切装置付ミシンです。(ELECTRIC TYPE)

UTE is with thread trimmer unit.

UTABはUTAのエアブロー式糸切装置付ミシンです。

UTAB is UTA with air wiper

without top cover thread trimmer.

■CCは地縫い、裾引き、潰しカバーリング、片倒しカバーリング用です。

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

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

PEは後スムー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.

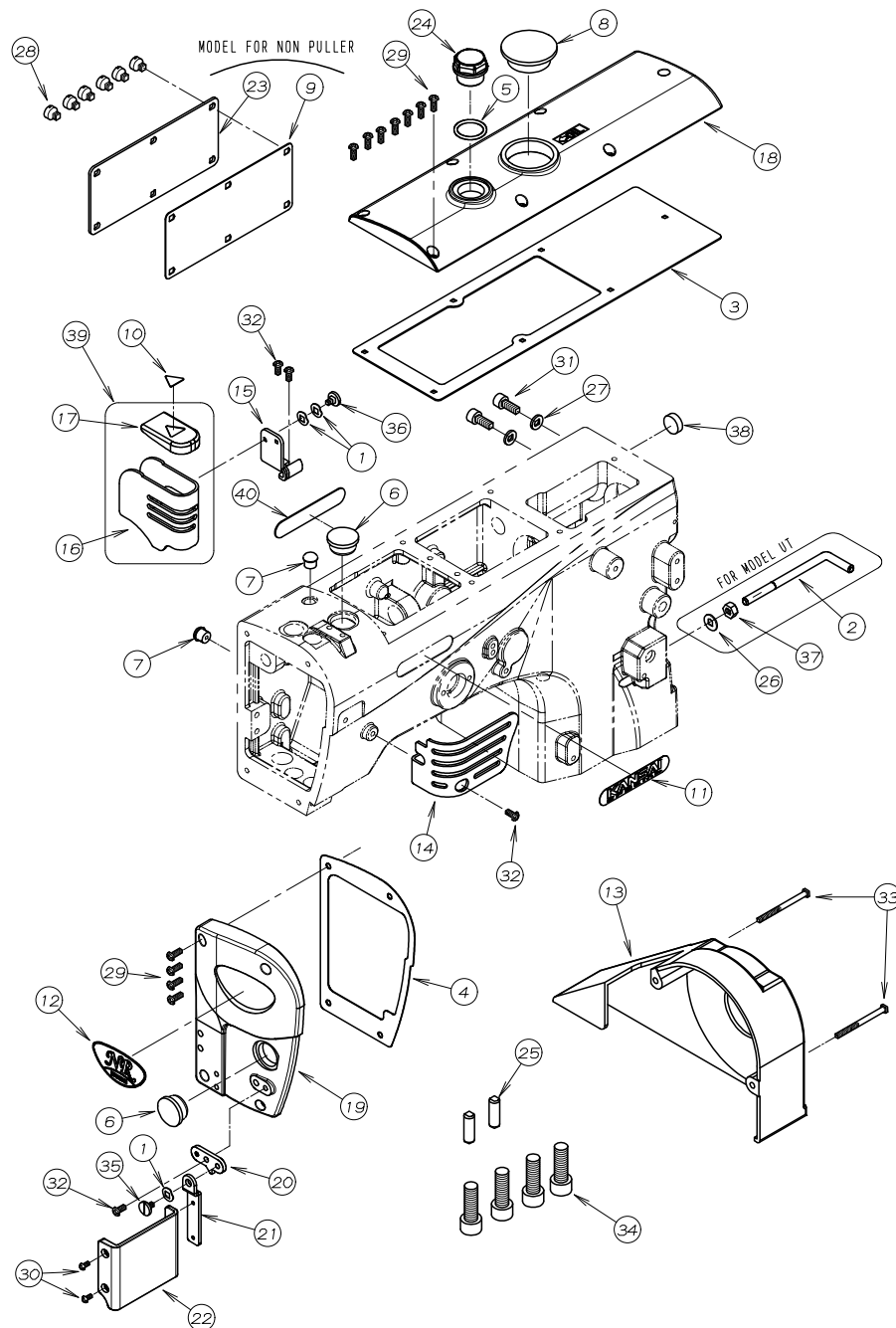
PMDは前プラー装置付です。 PMD is with front puller.

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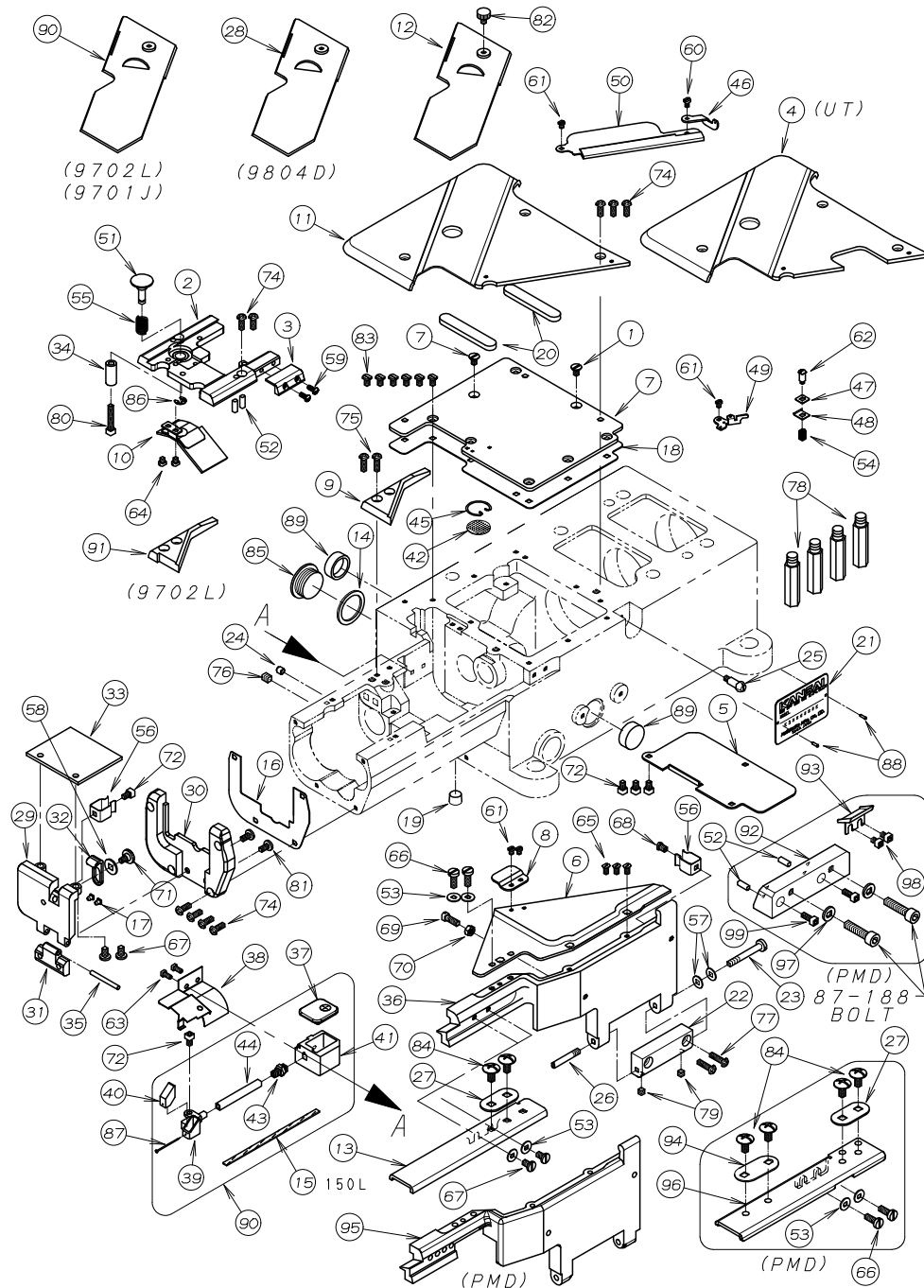
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1. フレーム関係 (1) FRAME ASSEMBLY (1)



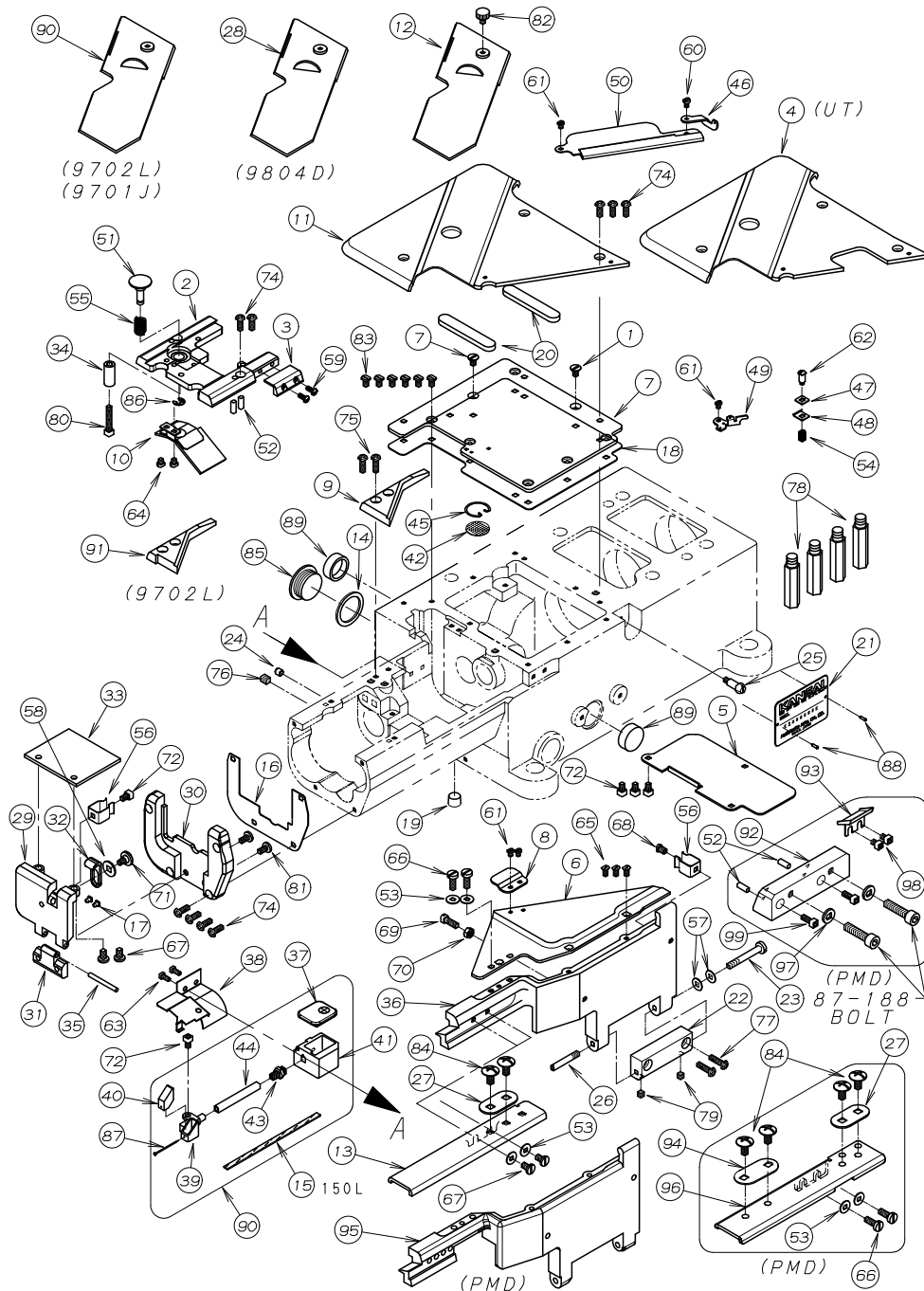
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
01-01	02-119	波座金	WASHER	3
01-02	05-292	ホ°シ°ショナーハ°ー	BAR	1
01-03	23-041	トップ°カハ°ーハ°ッキン	GASKET	1
01-04	23-045	面板ハ°ッキン	GASKET	1
01-05	23-287	O°リング	O RING	1
01-06	23-427	コ°ム栓	PLUG	2
01-07	23-501	コ°ム栓	PLUG	2
01-08	23-504	コ°ム栓	PLUG	1
01-09	23-538	ハ°ッキン	GASKET	1
01-10	24-060	針棒カバーシール	SEAL	1
01-11	24-069	銘版	BRAND NAME PLATE	1
01-12	24-062	機種プレート	MODEL PLATE	1
01-13	27-136	プーリーカバー	PULLEY COVER	1
01-14	27-231	天秤カハ°ー	COVER	1
01-15	27-233	針棒カハ°ーフ°ラケット	BRACKET	1
01-16	27-234	針棒カハ°ー	NEEDLE BAR COVER	1
01-17	27-235	針棒カハ°ーコ°ム	RUBBER	1
01-18	27-237W	トップ°カハ°ー	TOP COVER	1
01-19	27-238W	面板	HEAD COVER	1
01-20	27-239	アイカ°ート°ヒンジ° (1)	HINGE	1
01-21	27-240	アイカ°ート°ヒンジ° (2)	HINGE	1
01-22	27-241	アイカ°ート°	EYE GUARD	1
01-23	27-323W	後カハ°ー	REAR COVER	1
01-24	39-235	オイルポット	OIL POT	1
01-25	71-580	ノックピン	PIN	2
01-26	75-452	ワッシャ	WASHER	1
01-27	75-552	ワッシャ	WASHER	2
01-28	87-053	スリワリ付小ネジM6×6L	SCREW M6×6L	6
01-29	87-483	プラマイナベ小ねじ	SCREW	11
01-30	87-477	プラマイナベ小ねじ	SCREW	2
01-31	87-171	六角穴付きボルト	BOLT	2
01-32	87-482	プラマイナベ小ねじ	SCREW	4
01-33	87-489	プラマイナベ小ねじ	SCREW	2
01-34	87-228	六角穴付きボルト	BOLT	4
01-35	87-264	段ネジ°	SCREW	1
01-36	87-437	段ネジ°	SCREW	1
01-37	88-166	ナット	NUT	1
01-38	94-504	シールキャップ°	PLUG	1
01-39	20-0008	針棒カバーセット	NEEDLE BAR COVER ASS'Y	1
01-40	24-052	銘版	BRAND NAME PLATE	1

2. フレーム関係 (2-1) FRAME ASSEMBLY (2-1)



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
02-01	05-061	ネジ	SCREW	2
02-02	14-167	針板土台	NEEDLE PLATE SUPPORT BRACKET	1
02-03	14-168	針板補助フ ラケット	BRACKET	1
02-04	21-610W	上ハースカハ	UPPER COVER	1
02-05	21-640	防塵フ レート	PLATE	1
02-06	21-642W	定規板	FRONT COVER	1
02-07	21-643	上油カハ	CRANK CHAMBER COVER	1
02-08	21-644	調子皿保護カハ	COVER	1
02-09	21-646W	差板補助カハ	COVER	1
02-10	21-670	オイルカハ	OIL DIFENDER	1
02-11	21-678W	上ハースカハ	UPPER COVER	1
02-12	21-679	差板	SLIDE COVER	1
02-13	21-874	補助カハ	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	クッションゴ ム	CUSHION RUBBER	2
02-18	23-513	ハッキン	GASKET	1
02-19	23-528	フ ラク	PLUG	1
02-20	23-570	防振マット	CUSHION	2
02-21	24-053	モデル ステッカー	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	フ ラク	PLUG	1
02-25	25-522	カハーストッフ ネジ	SCREW	1
02-26	25-527	カハーストッフ 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	横カハーフ レート	SIDE COVER PLATE	1
02-34	27-217	カハーストッフ カラー	COLLAR	1
02-35	27-218	ヒンジ ピン	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	オイルフェンス (下軸)	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	ルーハース道	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	ルーハース案内	LOOPER THREAD GUIDE	1
02-51	69-517	フッショボ タン	PUSH BUTTON	1
02-52	71-253	ノックピン	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

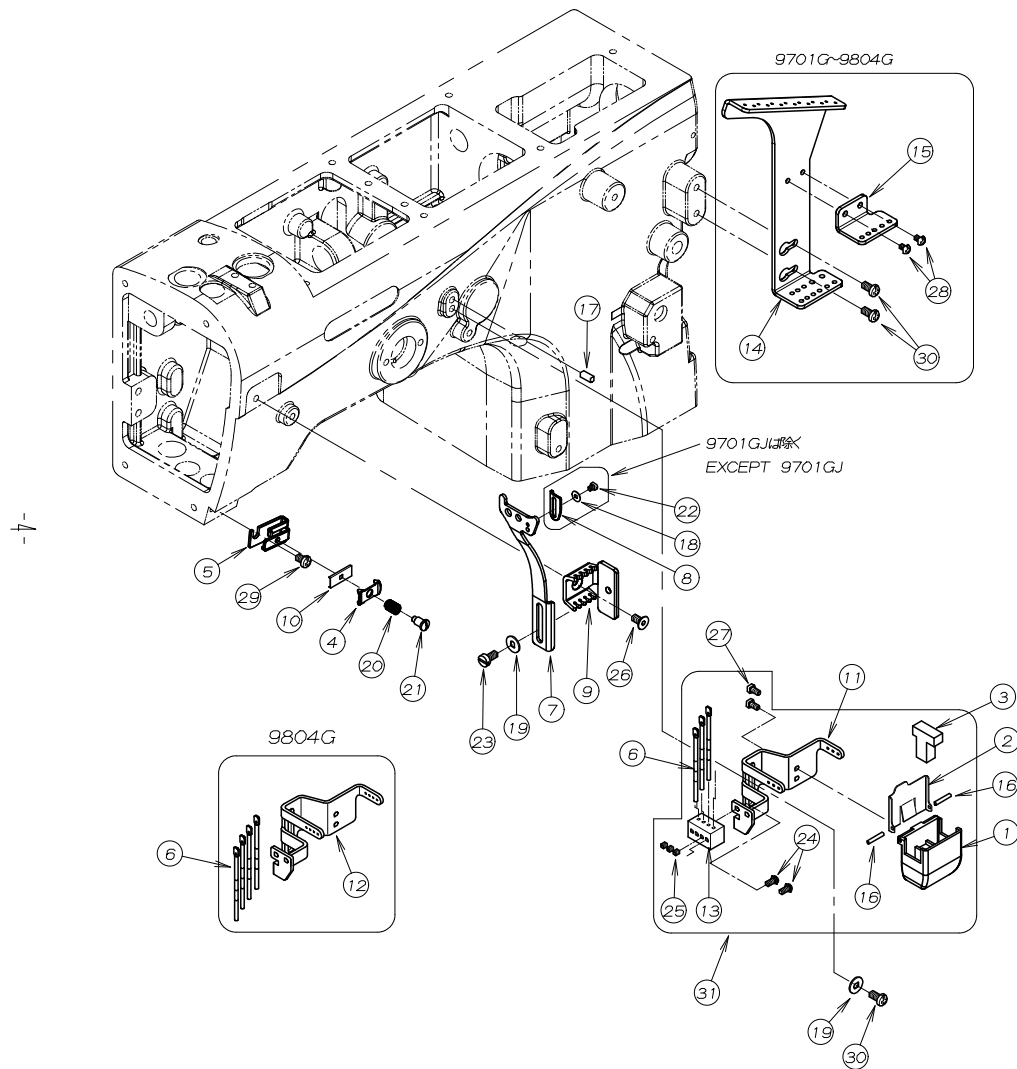
2. フレーム関係 (2-2) FRAME ASSEMBLY (2-2)



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
02-57	79-922	皿ハネ	SPRING	2
02-58	79-927	皿ばね 6	SPRING	1
02-59	84-154	ネジ	SCREW	2
02-60	84-161	ネジ	SCREW	1
02-61	84-167	ネジ	SCREW	4
02-62	84-175	段ネジ	SCREW	1
02-63	87-375	タッピングネジ	SCREW	2
02-64	84-364	ネジ	SCREW	2
02-65	84-464	ネジ	SCREW	3
02-66	84-566	ネジ	SCREW	4
02-67	84-574	ネジ	SCREW	4
02-68	84-575	ネジ	SCREW	1
02-69	84-635	ネジ	SCREW	1
02-70	86-311	ナット	NUT	1
02-71	87-066	段ネジ	SCREW	1
02-72	87-092	六角穴付きボルト	BOLT	5
02-73	20-0003	ニードルクーラーセット	NEEDLE COOLER ASS'Y	1
02-74	87-483	プラマイナベ小ねじ	SCREW	9
02-75	87-484	プラマイナベ小ねじ	SCREW	2
02-76	87-172	ネジ	SCREW	1
02-77	87-485	プラマイナベ小ねじ	SCREW	2
02-78	87-258	スタントピン	PIN	4
02-79	87-274	ネジ	SCREW	2
02-80	87-283	六角穴付きボルト	BOLT	1
02-81	87-288	ネジ	SCREW	2
02-82	87-409	ネジ	SCREW	1
02-83	87-415	ネジ	SCREW	6
02-84	87-436	ネジ	SCREW	6
02-85	87-812	ネジ	SCREW	1
02-86	93-205	Eリング	E-RING	1
02-87	93-625	フェルトピン	PIN	1
02-88	93-701	ピン	PIN	2
02-89	94-506	オイルシール	OIL SEAL	2
02-90	21-798	差板	SLIDE COVER	1
02-91	21-799W	差板補助カバー	COVER	1
02-92	01-156	前ブローラ取付台	BRACKET	1
02-93	01-157	油受け	PLATE	1
02-94	26-712	取付金具	WASHER	1
02-95	27-226	定規台 (PMD)	FRONT COVER	1
02-96	27-227	補助カバー	COVER	1
02-97	75-552	ワッシャー	WASHER	2
02-98	87-067	六角穴付きボルト	BOLT	2
02-99	87-113	ネジ	SCREW	2

3. 糸調子機構

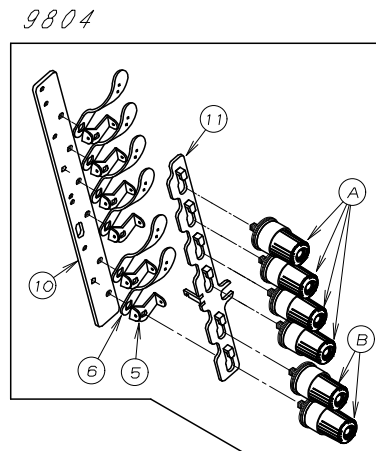
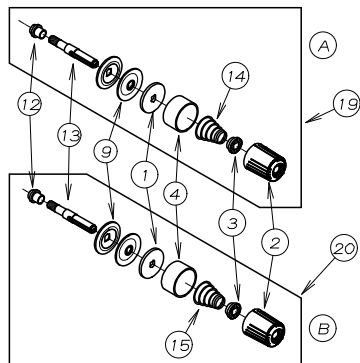
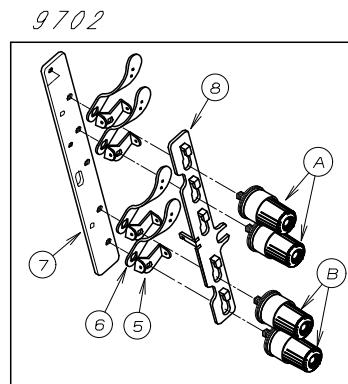
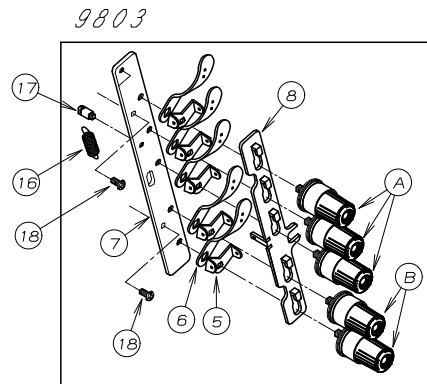
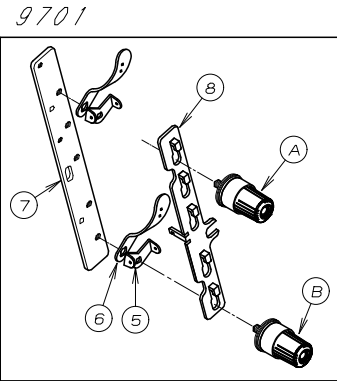
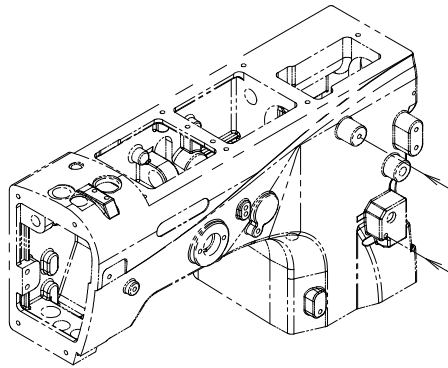
THREAD TENSION MECHANISM



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

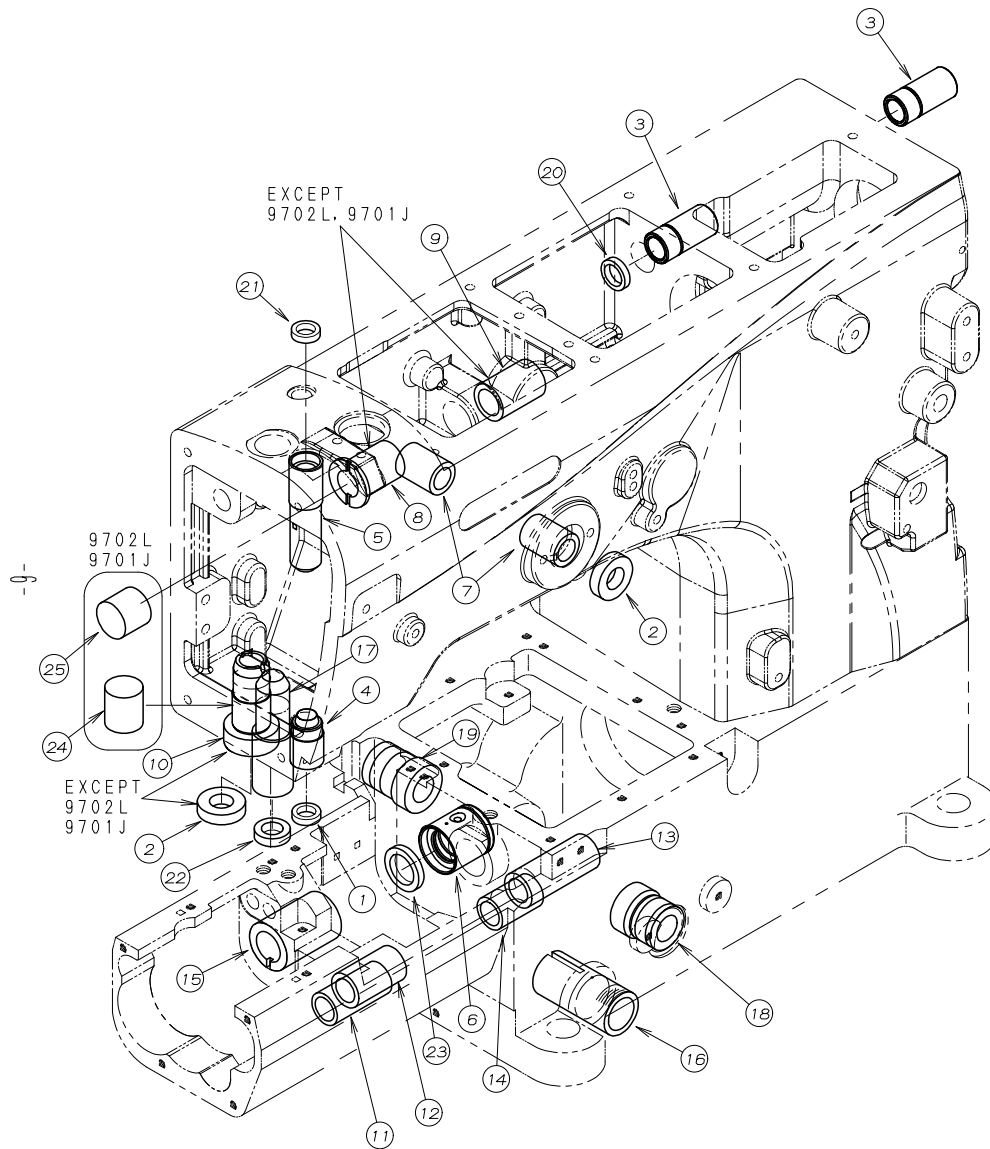
4. 糸調子機構 (UT除外)

THREAD TENSION MECHANISM (WITHOUT UT)



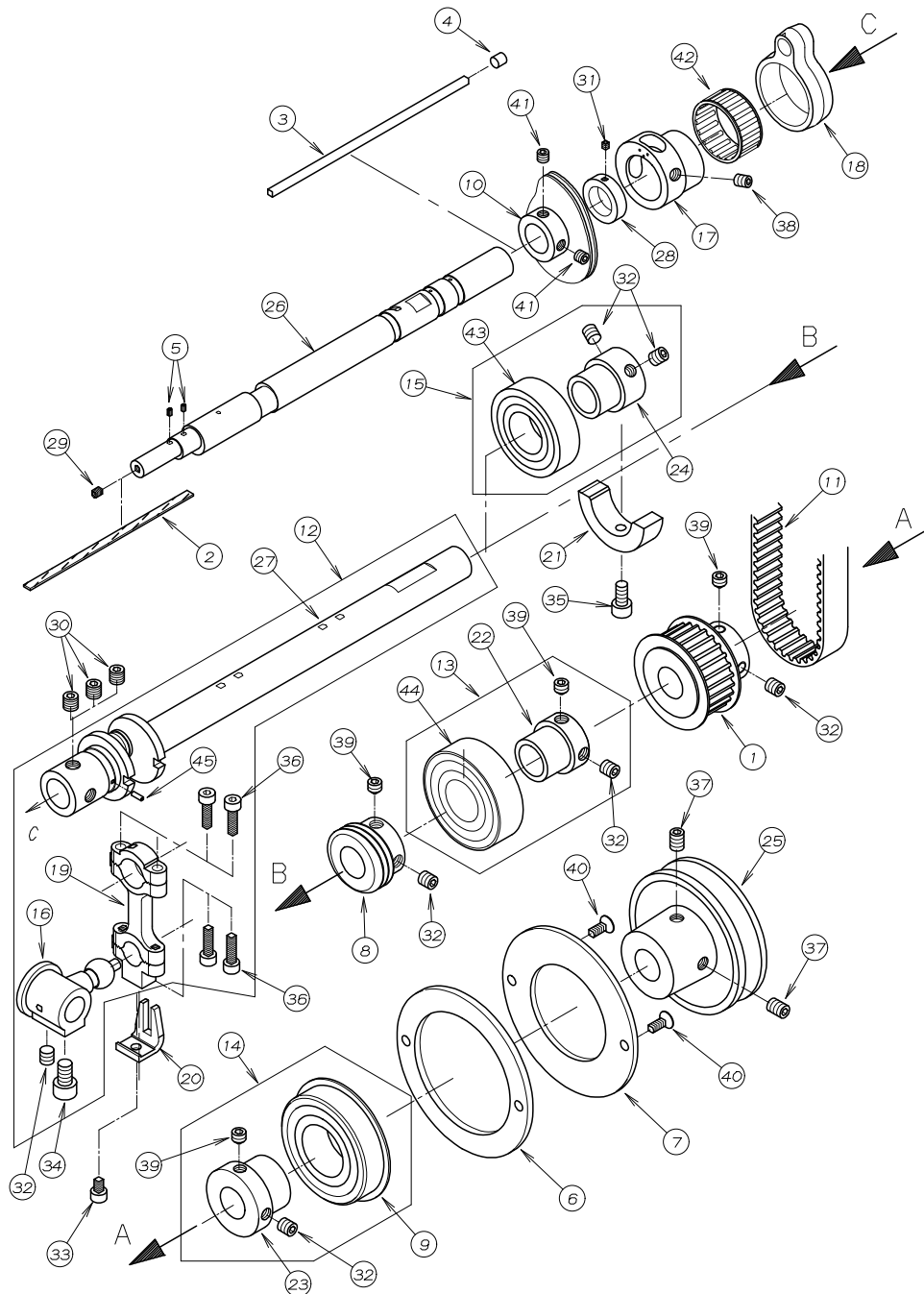
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
04-01	23-324	フェルト	FELT	*
04-02	41-104	チャンボン皿小ケース	THREAD TENSION NUT	*
04-03	41-105	チャンボン皿ラチェット	SPRING POST	*
04-04	41-108	チャンボン皿大ケース	SPRING CUP	*
04-05	41-115	糸道 (上)	THREAD GUIDE	*
04-06	41-117	糸道 (下)	THREAD GUIDE	*
04-07	41-501	ブラケット	BRACKET	1
04-08	41-502	糸緩めプレート	THREAD RELEASER	1
04-09	41-528	チャンボン皿	TENSION DISC	*
04-10	41-518	フ ラケット	BRACKET	1
04-11	41-519	糸緩めフ レート	THREAD RELEASER	1
04-12	41-531	調子棒カラー	COLLAR	*
04-13	41-532	調子棒	SCREW STUD	*
04-14	41-701	チャンボン調子バネ (強)	SPRING (HEAVY)	*
04-15	41-702	チャンボン調子バネ (弱)	SPRING (LIGHT)	*
04-16	79-514	引張りバネ	SPRING	1
04-17	84-501	ネジ	SCREW	1
04-18	87-482	プラマイナベ小ねじ	SCREW	2
04-19	40-7510	チャンボンセット (強)	THREAD TENSION SET (HEAVE)	*
04-20	40-7520	チャンボンセット (弱)	THREAD TENSION SET (LIGHT)	*

5. ブッシュ機構 BUSHING



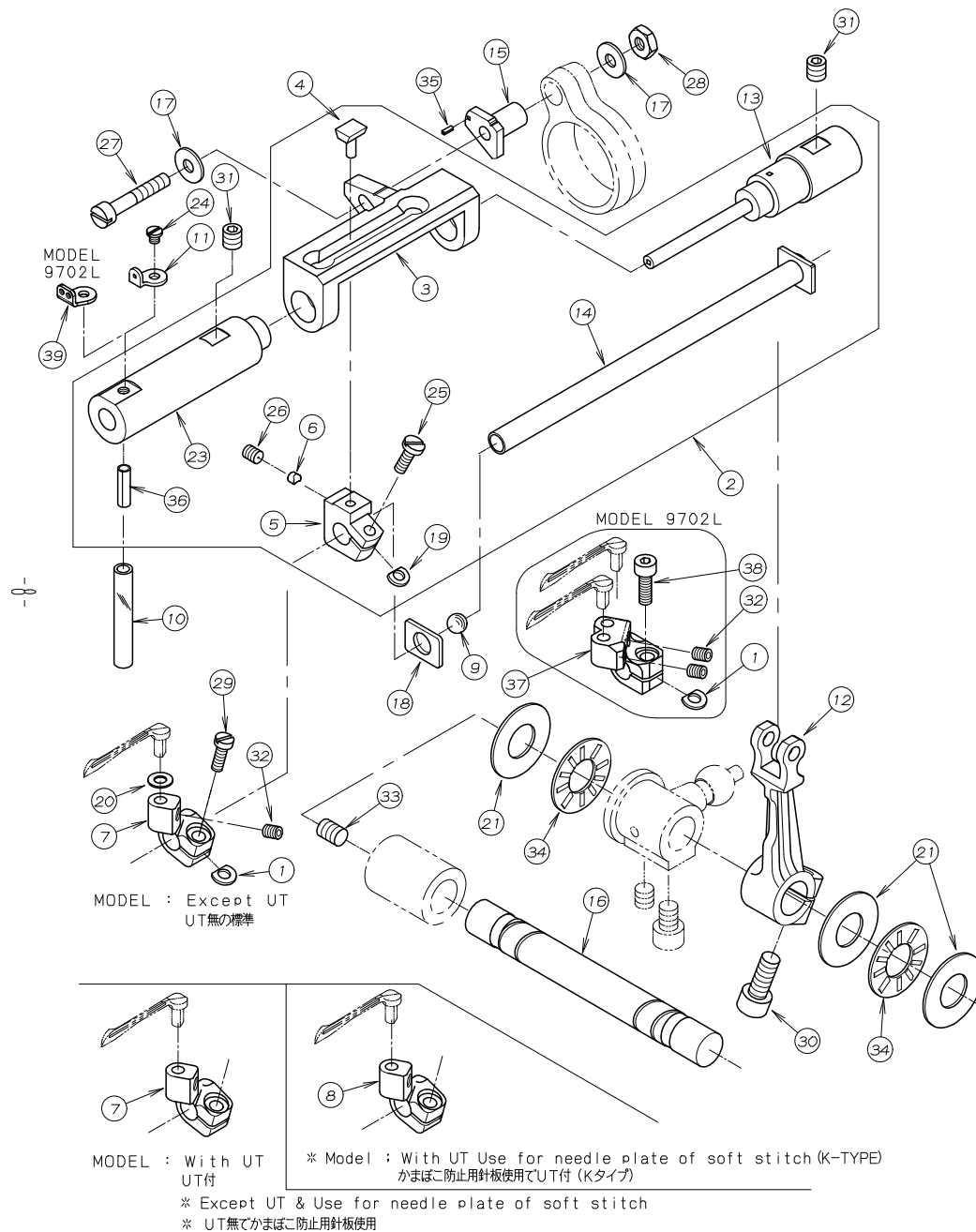
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
05-01	94-511	オイルシール	OIL SEAL	1
05-02	94-804	オイルシール	OIL SEAL	2
05-03	81-023	押上げ機構運動シャフトブッシュ	BUSHING	2
05-04	81-047	針棒ブッシュ (下)	BUSHING	1
05-05	81-048	針棒ブッシュ (上)	BUSHING	1
05-06	81-049	下軸ブッシュ (後)	BUSHING (REAR)	1
05-07	81-506	ブッシュ	BUSHING	2
05-08	81-507	ブッシュ	BUSHING	1
05-09	81-508	ブッシュ	BUSHING	1
05-10	81-587	飾り糸ルーパ-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	ルーパ-振り元軸ブッシュ	BUSHING	1
05-19	81-581	ルーパ-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	POMP DRIVING WARM	1
06-09	34-826	ホー ルハ ャ リンク	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	ルーパークランクロッド 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	ルーパ-振玉	DRIVE BALL	1
06-17	61-522	針返エキセン	ECCENTRIC	1
06-18	63-504	針返連結ロッド	CONNECTING ROD	1
06-19	63-505	ルーパ-振りロッド	CONNECTING ROD	1
06-20	69-513	振れ止め	GUIDE	1
06-21	69-536	バランス	BALANCER	1
06-22	69-544	ベアリングスリーブ	BEARING SLEEVE	1
06-23	69-549	スリーブ	SLEEVE	1
06-24	69-550	スリーブ	SLEEVE	1
06-25	69-552	Vプーリー	V-PULLEY	1
06-26	71-540	下軸	LOWER SHAFT	1
06-27	71-587	下軸クランク	CRANK SHAFT	1
06-28	75-511	カラー	COLLAR	1
06-29	84-314	ネジ	SCREW	1
06-30	85-113	ネジ	SCREW	3
06-31	87-104	ネジ	SCREW	1
06-32	87-172	ネジ	SCREW	7
06-33	87-092	六角穴付きボルト	BOLT	1
06-34	87-203	六角穴付きボルト	BOLT	1
06-35	87-213	六角穴付きボルト	BOLT	1
06-36	87-214	六角穴付きボルト	BOLT	4
06-37	87-242	ネジ	SCREW	2
06-38	87-254	ネジ	SCREW	1
06-39	87-259	ネジ	SCREW	4
06-40	87-270	ネジ	SCREW	2
06-41	87-274	ネジ	SCREW	2
06-42	91-413	ニードルゲージ	NEEDLE BEARING	1
06-43	91-890	ハ ャ リンク	BEARING	1
06-44	91-994	ハ ャ リンク	BEARING	1
06-45	93-718	スフ リンク ヒ ョ ン	SPRING PIN	1

7. ルーパー機構 LOOPER MECHANISM

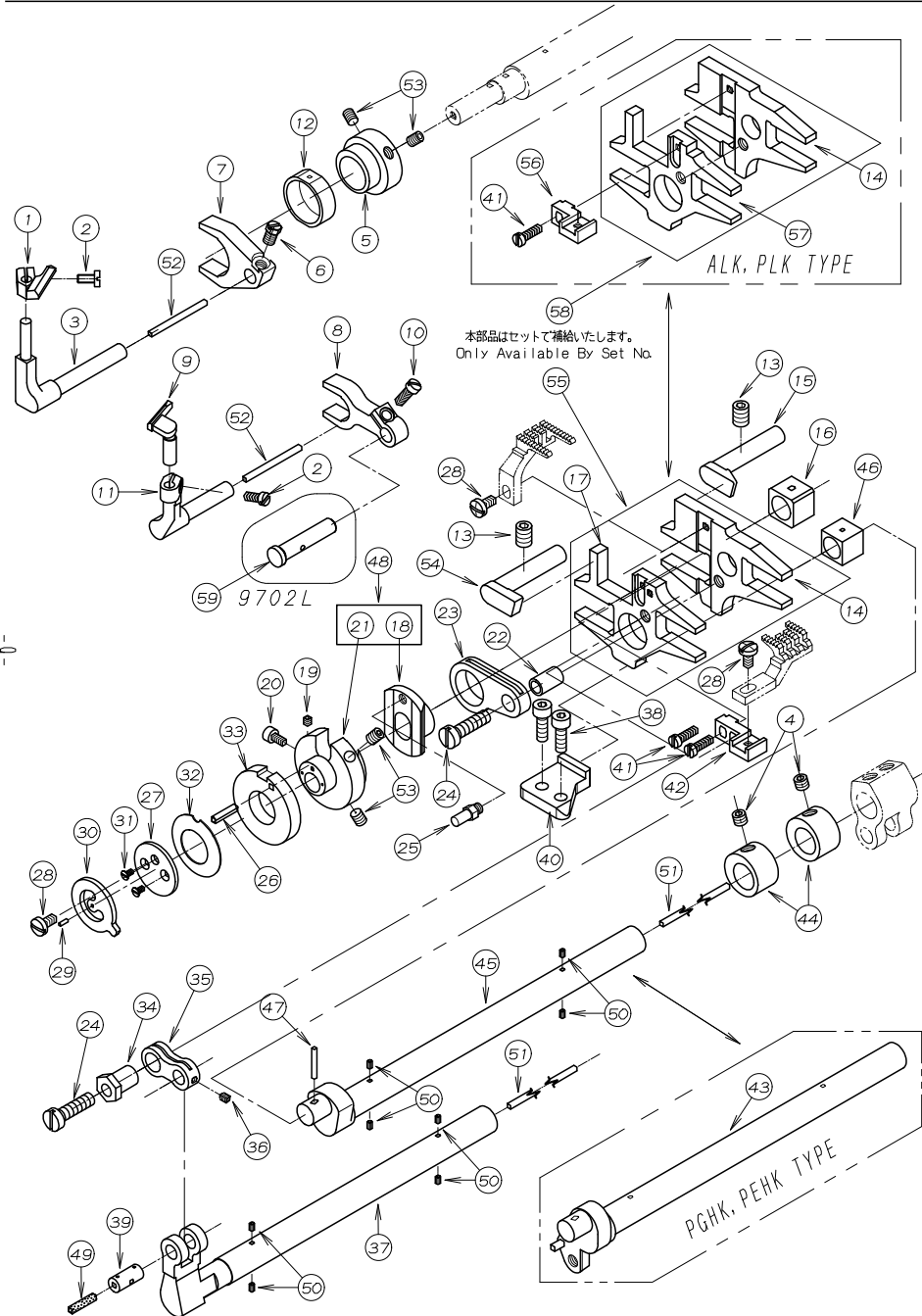


REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
07-01	06-375	スヘーサー	WASHER	2
07-02	10-5010	ルーパー駆動元台セット	LOOPER GUIDE ASS'Y	1
07-03	19-506	ルーパー駆動元台	LOOPER SHAFT GUIDE	1
07-04	19-507	カムフロアー	SLIDER	1
07-05	19-508	カムフロアー取付台	SLIDER HOLDER	1
07-06	19-509	カムフロアー押しピン	PIN	1
07-07	19-533	ルーパー台	LOOPER HOLDER	2
07-08	*19-558	ルーパー台	LOOPER HOLDER	1
07-09	23-515	詰栓	PLUG	1
07-10	35-526	ヒールチューブ	TUBE	1
07-11	47-801	ルーパー案内糸道	THREAD EYELET	1
07-12	67-505	ルーパー振元レバー	LEVER	1
07-13	71-532	ルーパー案内棒	LOOPER SHAFT GUIDE BAR	1
07-14	71-535	ルーパーシャフト	LOOPER SHAFT	1
07-15	71-538	針返り調節ピン	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	スヘーサー	WASHER	1
07-20	75-532	スヘーサー	SPACER	1
07-21	75-901	ワッシャ	WASHER	3
07-22				
07-23	81-573	ルーパー案内ブッシュ	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	ルーパー台	LOOPER HOLDER	1
07-38	87-129	六角穴付きボルト	BOLT	1
07-39	43-571	ルーパー案内糸道	THREAD EYELET	1

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

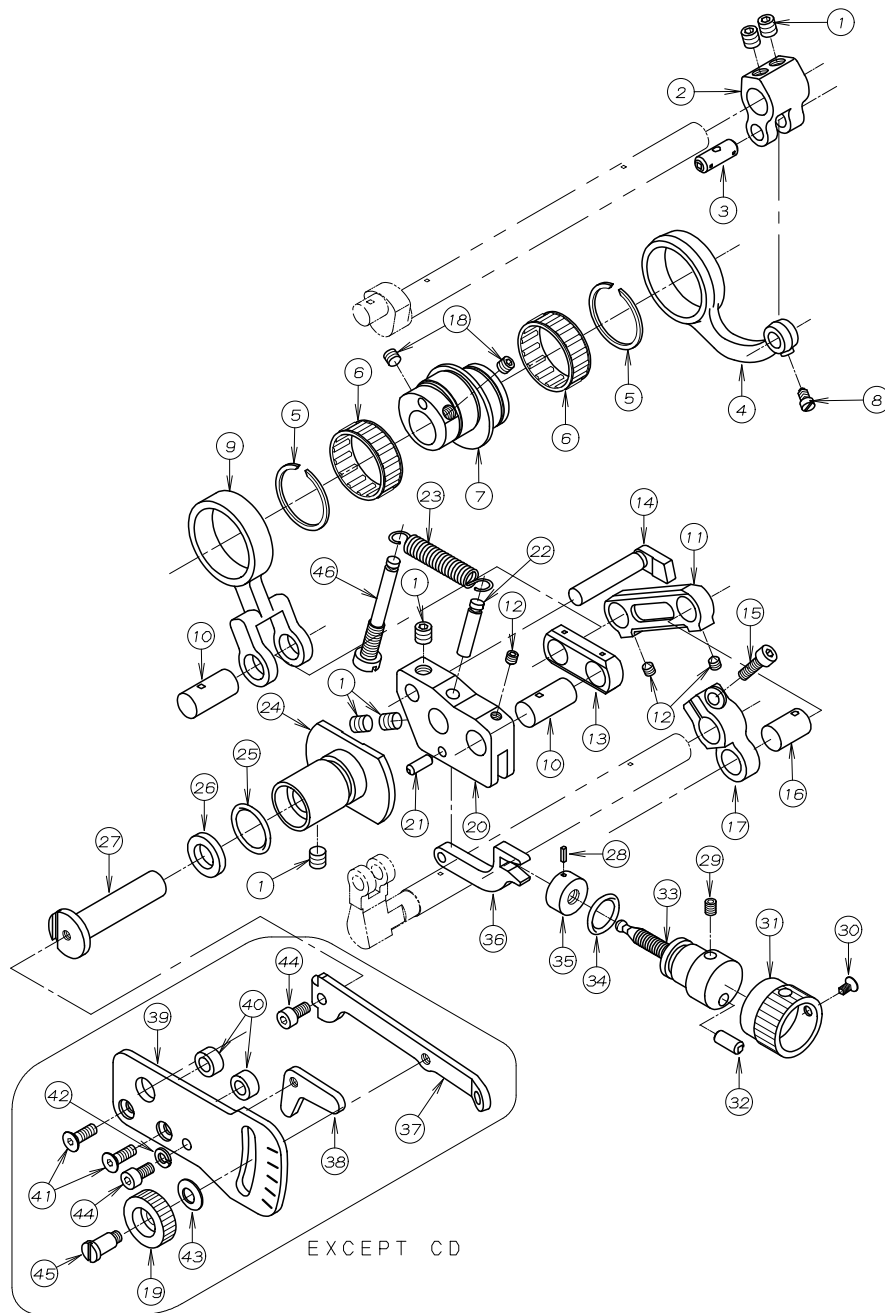
* Please refer to Page 49 GAUGE PARTS LIST for soft stitch

8. 送り機構 (1) FEED MECHANISM (1)



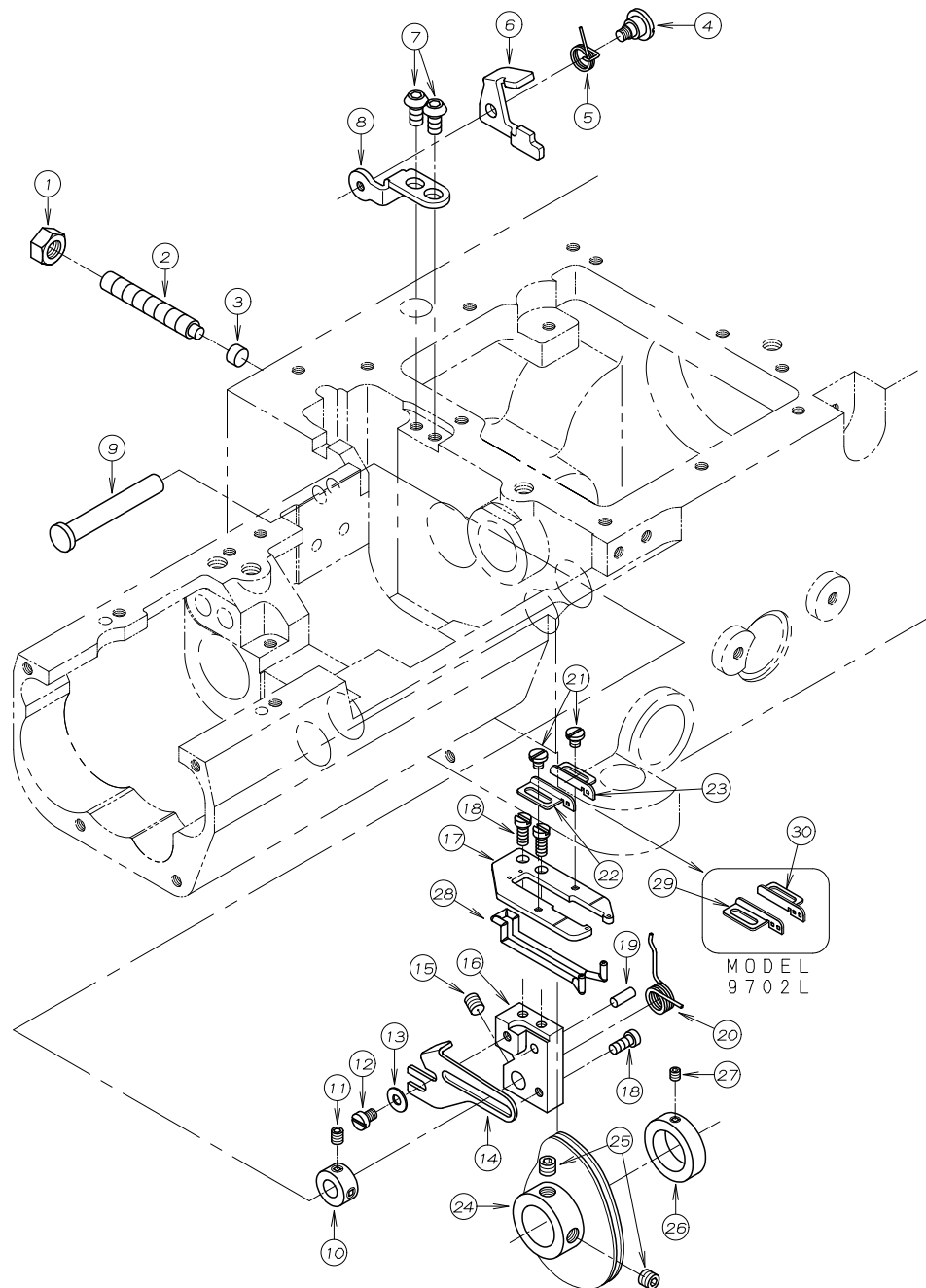
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
08-01	18-805	針受	NEEDLE GUARD	1
08-02	84-155	ネジ	SCREW	2
08-03	18-804	針受ブ ラケット	BRACKET	1
08-04	87-274	ネジ	SCREW	2
08-05	61-530	針受エキセン	ECCENTRIC	1
08-06	84-616	ネジ	SCREW	1
08-07	18-800	針受レバ ー	NEEDLE GUARD LEVER	1
08-08	18-801	針ガ イト* レバ ー	NEEDLE GUARD LEVER	1
08-09	18-806	針ガ イト*	NEEDLE GUARD	1
08-10	84-376	ネジ	SCREW	1
08-11	18-803	針ガ イト* ブ ラケット	BRACKET	1
08-12	18-799	針受エキセン角ゴ マ	BLOCK	1
08-13	87-242	ネジ	SCREW	2
08-14	51-827	主送り台	MAIN FEED BAR	1
08-15	69-514	送り台ガ イト*	FEED ROCKER GUIDE	1
08-16	51-822	角ゴ マ (後)	FEED LIFT BLOCK (REAR)	1
08-17	51-826	差動送り台	DIFFERENTIAL FEED BAR	1
08-18	61-504	スライド* エキセン	ECCENTRIC	1
08-19	87-104	ネジ	SCREW	1
08-20	87-123	ネジ	SCREW	1
08-21	61-503	送りエキセン	FEED ECCENTRIC	1
08-22	71-530	主送り連結リンクピ ン	PIN	1
08-23	51-823	主送り連結リンク	CONNECTING LINK	1
08-24	87-235	ネジ	SCREW	2
08-25	69-511	エキセンカム案内ピ ン	PIN	1
08-26	52-308	スプリング ピン	SPRING PIN	1
08-27	69-509	押上板	PLATE	1
08-28	84-374	ネジ	SCREW	3
08-29	93-716	スプリング ピン	SPRING PIN	1
08-30	69-510	送り調節ストッパ ー	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	調節エキセン	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	51-883	送り土台ガ イト* プ レート	FEED BAR GUIDE PLATE	1
08-41	84-158	ネジ	SCREW	3
08-42	51-825	差動送り歯取付台	DIFFERENTIAL FEED DOG BASE	1
08-43	71-634	送り上下軸	FEED LIFT SHAFT	1
08-44	75-512	カラー	COLLER	2
08-45	71-566	送り上下軸	FEED LIFT SHAFT	1
08-46	51-821	角ゴ マ (前)	FEED LIFT BROCK (FRONT)	1
08-47	23-531	フェルト	FELT	1
08-48	60-5070	送りエキセンセット	FEED ECCENTRIC ASS' Y	1
08-49	23-341	フェルト	FELT	1
08-50	23-554	フェルト	FELT	8
08-51	23-535	フェルト	FELT	2
08-52	23-552	フェルト	FELT	2
08-53	87-181	ネジ	SCREW	4
08-54	69-531	送り台ガ イト*	FEED ROCKER GUIDE	1
08-55	50-8260	送り土台セット	FEED BRACKET SET	1
08-56	51-849	取り付けブラケット	BRACKET	1
08-57	51-850	差動送り台	DIFFERENTIAL FEED BAR	1
08-58	50-8270	送り土台セット	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	6
09-02	67-504	送り上下レバー	FEED LEVER	1
09-03	71-431	ダ ルマピン	PIN	1
09-04	63-502	送り上下連結ロッド	CONNECTING ROD	1
09-05	93-402	サークリップ	SNAP RINK	2
09-06	91-412	ニード ルベ ージ	NEEDLE BEARING	2
09-07	61-505	送りダ ルマエキセン	FEED ECCENTRIC	1
09-08	84-366	ネジ	SCREW	1
09-09	63-503	連結ロッド	CONNECTING ROD	1
09-10	71-518	リンクピン	PIN	2
09-11	51-817	リンク	LINK	1
09-12	87-233	ネジ	SCREW	3
09-13	51-816	リンク	LINK	1
09-14	69-515	ロッド ガ イド	CONNECTING ROD GUIDE	1
09-15	87-129	ネジ	SCREW	1
09-16	71-525	リンクピン	PIN	1
09-17	67-509	差動送りレバー	FEED LEVER	1
09-18	87-274	ネジ	SCREW	2
09-19	51-808	ナット	NUT	1
09-20	51-811	調節土台	BRACKET	1
09-21	71-520	ピン	PIN	1
09-22	51-812	引張りバ ネ取付ピン	PIN	1
09-23	79-527	引張りバ ネ	SPRING	1
09-24	51-809	ブ ッシュ	BUSHING	1
09-25	23-283	O-リング	O-RING	1
09-26	94-222	オイルシール	OIL SEAL	1
09-27	51-866	調節レバ ー軸	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	調節ノブ	ADJUSTING KNOB	1
09-32	71-208	ストップピン	PIN	1
09-33	51-814	調節ネジ	SCREW	1
09-34	23-192	O-リング	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	調節レバ ー	DIFFERENTIAL FEED CONTROL LEVER	1
09-38	51-804	ストップパ ー	STOPPER	1
09-39	51-801	目盛板	FEED GRADUATIONS	1
09-40	51-805	スベ 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	皿バ ネ	SPRING	1
09-44	87-177	ネジ	BOLT	2
09-45	51-807	段ネジ	SCREW	1
09-46	51-818	引張りバ ネ取付ネジ	STUD BOLT	1

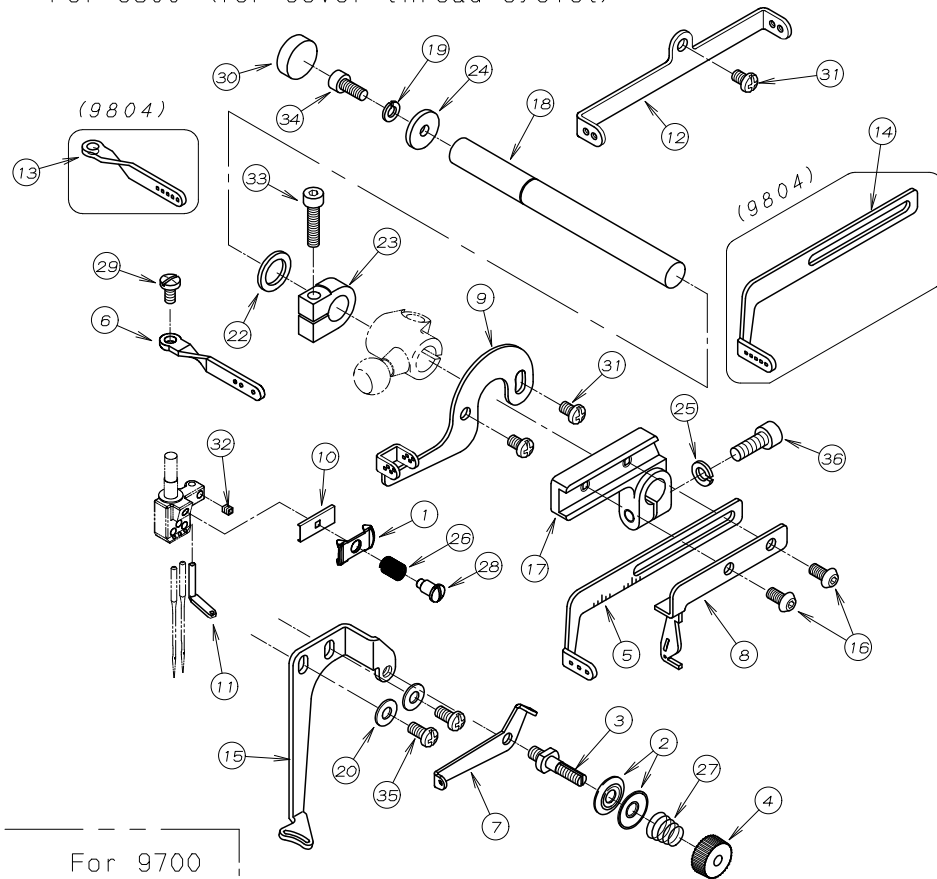
10. 下糸捌き機構 LOOPER THREAD MECHANISM



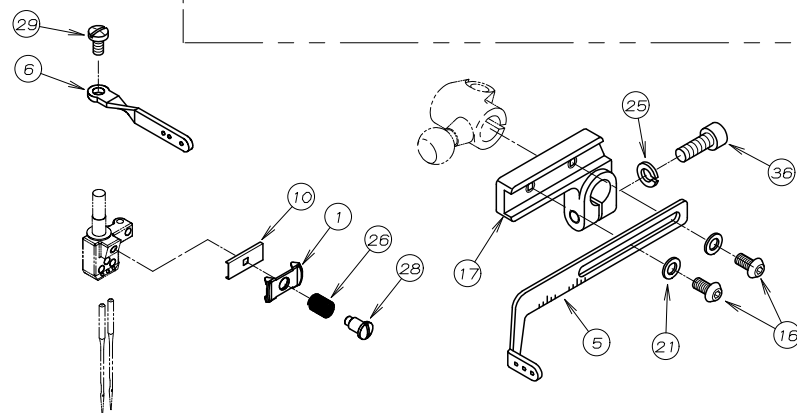
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
10-01	88-166	ナット	NUT	1
10-02	87-229	ネジ	SCREW	1
10-03	23-511	キャップ	CAP	1
10-04	84-174	ネジ	SCREW	1
10-05	79-523	バネ	SPRING	1
10-06	43-513	レバー	LEVER	1
10-07	87-272	ネジ	SCREW	2
10-08	43-506	ストップ台	STOP BRACKET	1
10-09	43-507	取付軸	SHAFT	1
10-10	75-105	カラー	COLLAR	1
10-11	84-314	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	カラー	COLLAR	1
10-27	87-104	ネジ	SCREW	1
10-28	23-319	巻き付き防止モール	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

12. 上糸捌き機構 NEEDLE THREAD MECHANISM

For 9800 (Top Cover thread eyelet)

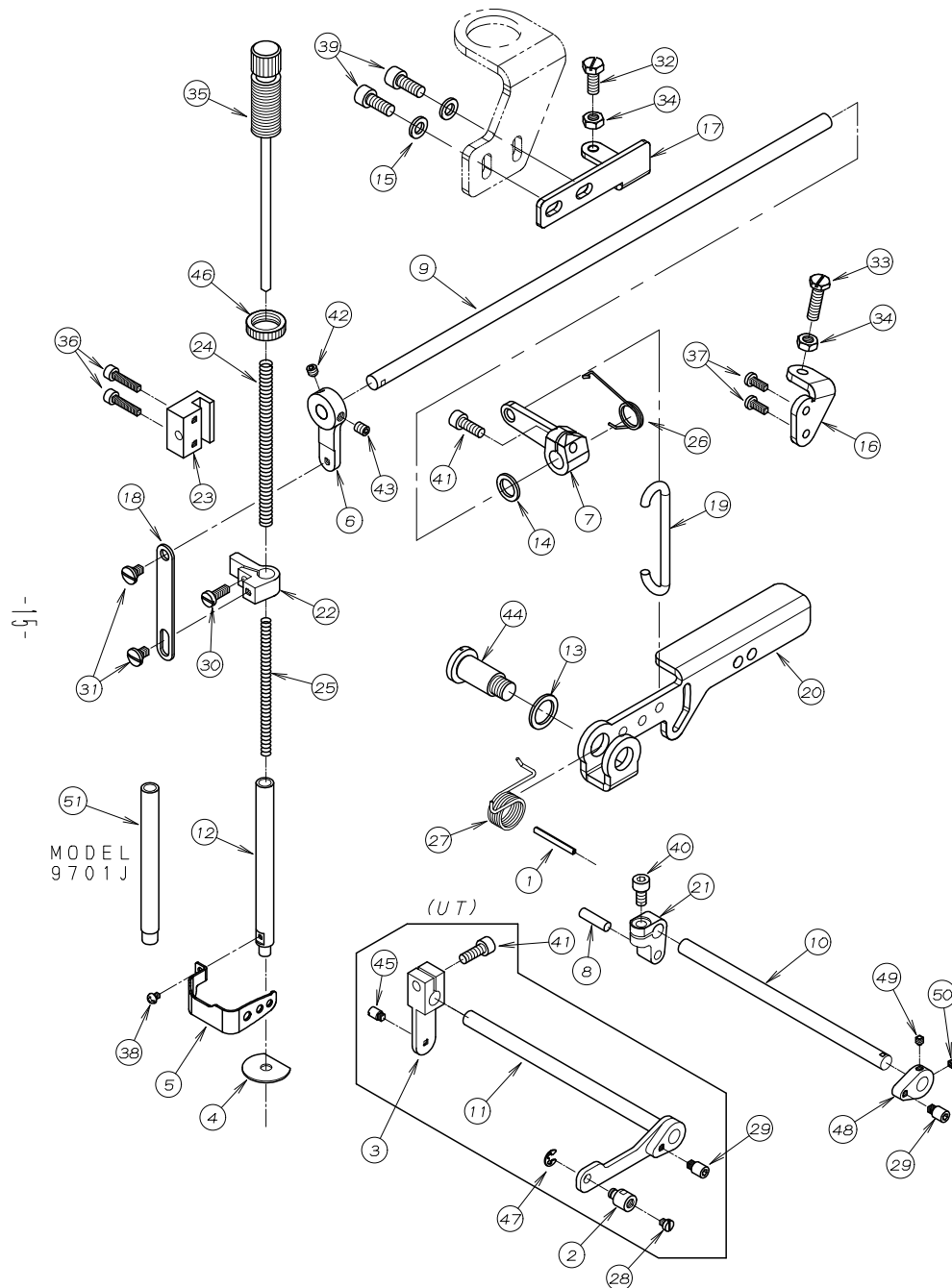


For 9700



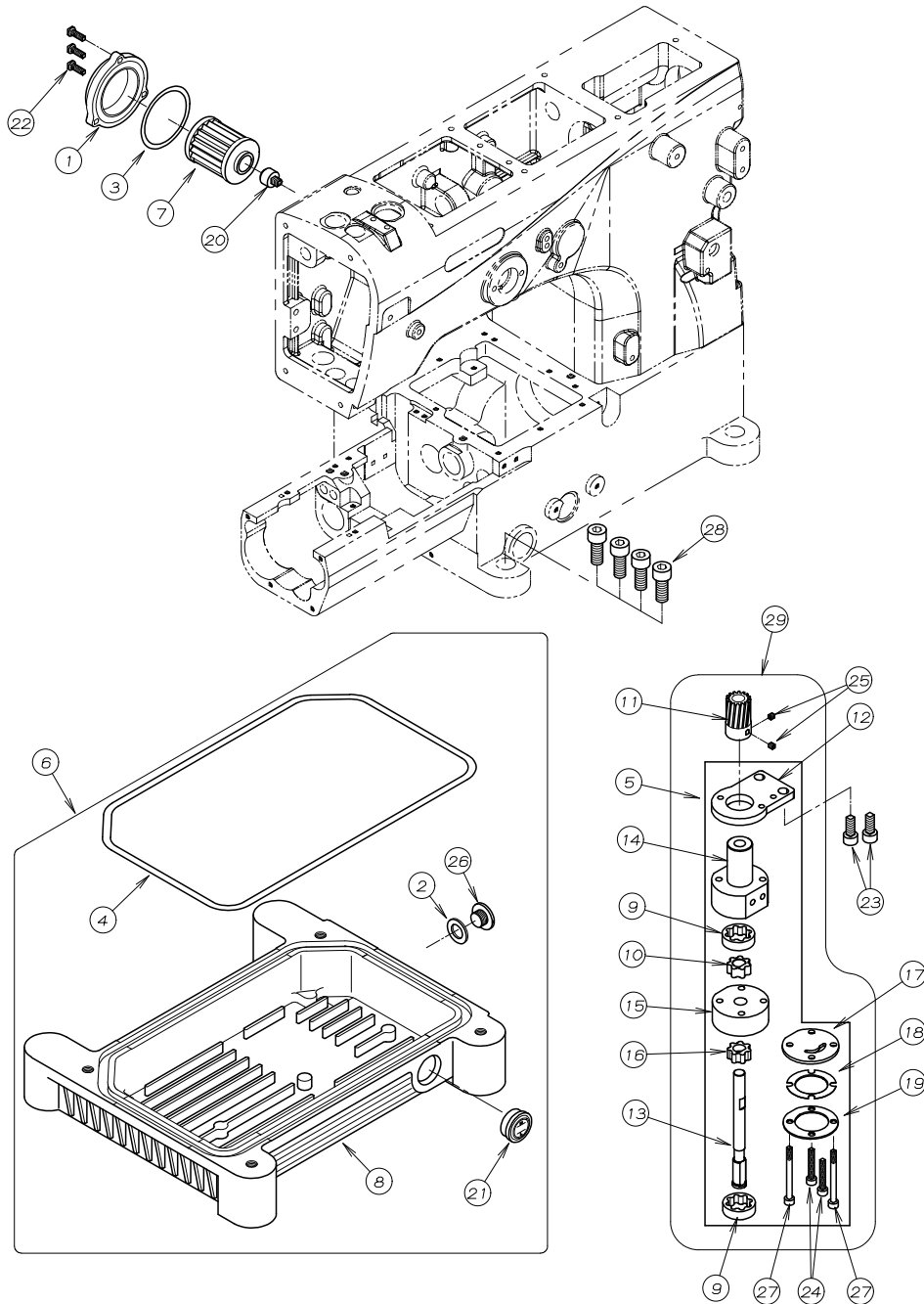
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
12-01	41-021	カメ糸道	THREAD NIPPER	1
12-02	41-155	チャンホ°ン皿	DISC	2
12-03	41-504	調子棒	TENSION POST	1
12-04	43-568	小チャンホ°ンナット	NUT	1
12-05	45-032	針糸サバキ	NEEDLE THREAD TAKE-UP	1
12-06	45-035	針棒糸道	THREAD EYELET	1
12-07	45-036	糸道	THREAD EYELET	1
12-08	45-502	飾り糸捌き	THREAD TAKE-UP	1
12-09	45-507	飾り糸捌き糸道	THREAD EYELET	1
12-10	45-508	針株小調子板	PLATE	1
12-11	45-514	飾り糸道	THREAD EYELET	1
12-12	45-515	針棒糸道	THREAD EYELET	1
12-13	45-535	針棒糸道	THREAD EYELET	1
12-14	45-536	針糸捌き	NEEDLE THREAD TAKE-UP	1
12-15	45-540	飾り糸案内	BRACKET	1
12-16	87-272	ネジ°	SCREW	2
12-17	67-502	針糸捌き取付台	LEVER	1
12-18	71-514	針糸捌きシャフト	SHAFT	1
12-19	75-410	スフ° リンク° ワッシャ	SPRING WASHER	1
12-20	75-455	ワッシャ	WASHER	2
12-21	75-468	ワッシャ	WASHER	2
12-22	75-504	ワッシャ	WASHER	1
12-23	75-505	カラー	COLLAR	1
12-24	75-508	ワッシャ	WASHER	1
12-25	75-526	スフ° リンク° ワッシャ	SPRING WASHER	1
12-26	79-025	カメ糸道パネ	SPRING	1
12-27	79-534	ハ° ネ	SPRING	1
12-28	84-021	ハ° ネカ° イト° ネジ°	SCREW	1
12-29	84-374	ネジ°	SCREW	1
12-30	94-504	シールキャップ°	PLUG	1
12-31	87-481	プラマイナベ小ねじ	SCREW	3
12-32	87-104	ネジ°	SCREW	1
12-33	87-112	六角穴付きボルト	BOLT	1
12-34	87-113	六角穴付きボルト	BOLT	1
12-35	87-482	プラマイナベ小ねじ	SCREW	2
12-36	87-224	六角穴付きボルト	BOLT	1

14. 押え揚げ機構 PRESSER FOOT MECHANISM



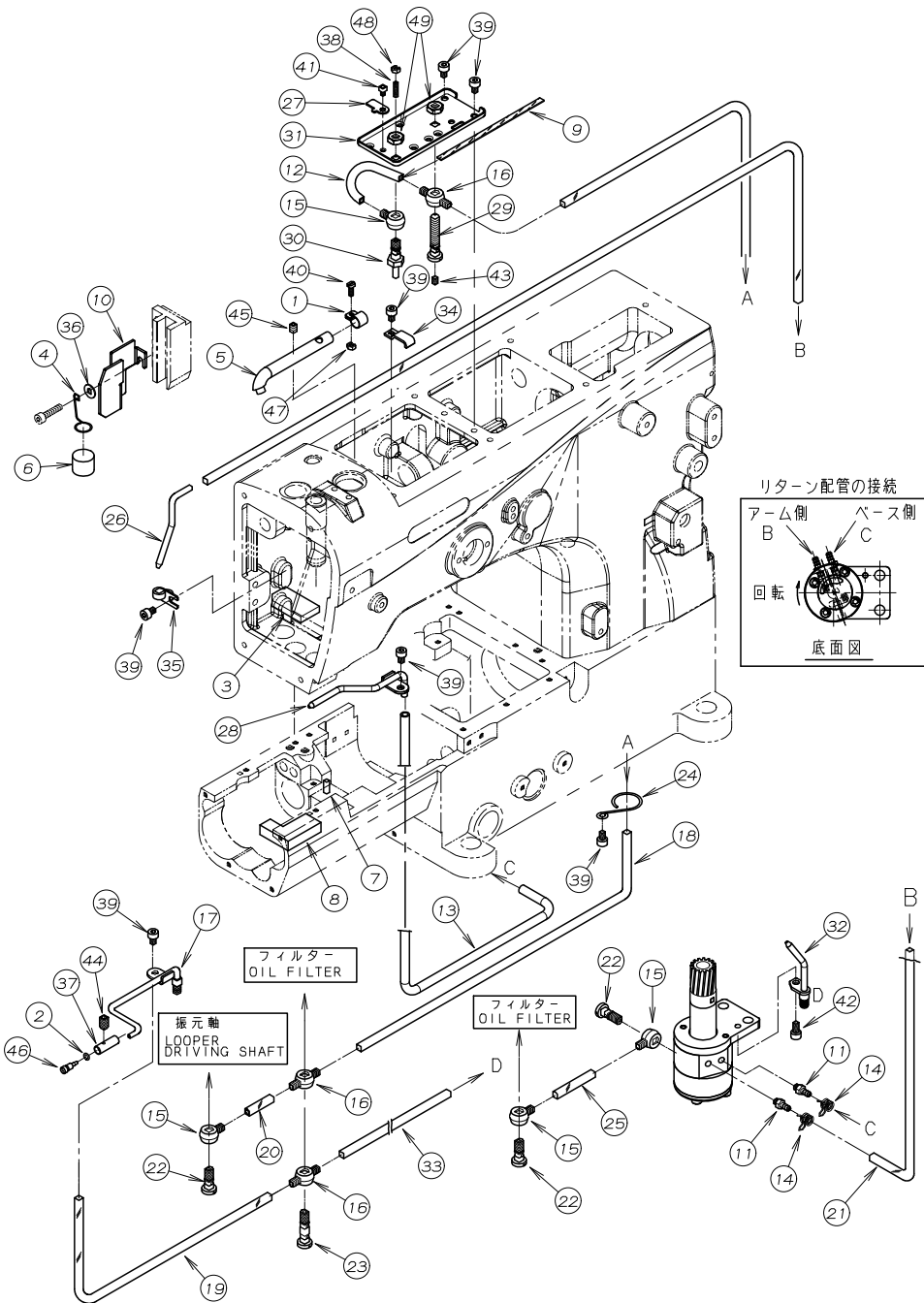
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
14-01	05-404	スプリングピン	SPRING PIN	1
14-02	05-853	糸緩め連結片	HOLDER	1
14-03	05-958	クランクレハ -	LEVER	1
14-04	23-018	押え棒油止シール	SEAL	1
14-05	27-232	フィンガーガード	FINGER GUARD	1
14-06	67-036	レハ -	LEVER	1
14-07	67-037	レハ -	LEVER	1
14-08	71-203	平行ピン	PIN	1
14-09	71-278	運動シャフト	SHAFT	1
14-10	71-270	糸緩め軸	SHAFT	1
14-11	71-280	レハ - シャフト (UT)	SHAFT	1
14-12	71-515	押え棒	PRESSER FOOT BAR	1
14-13	75-332	ワッシャ	WASHER	1
14-14	75-504	ワッシャ	WASHER	1
14-15	75-552	ワッシャ	WASHER	2
14-16	77-030	ブラケット	BRACKET	1
14-17	77-033	押え浮かしストッパー	STOPPER	1
14-18	77-051	連結プレート	PLATE	1
14-19	77-052	リンク	LINK	1
14-20	77-053	押揚ケレハ -	LEVER	1
14-21	77-504	押え揚クランク	CRANK	1
14-22	77-510	押え棒抱き	CLAMP	1
14-23	77-511	押え棒ガイド	GUIDE	1
14-24	79-022	押え棒ハネ (上)	SPRING	1
14-25	79-023	押え棒ハネ (下)	SPRING	1
14-26	79-024	巻きハネ	SPRING	1
14-27	79-423	巻きバネ	SPRING	1
14-28	84-364	ネジ	SCREW	1
14-29	84-561	ネジ	SCREW	2
14-30	84-566	ネジ	SCREW	1
14-31	84-581	段ネジ	SCREW	2
14-32	84-818	六角ボルト	BOLT	1
14-33	84-813	ネジ	SCREW	1
14-34	86-411	ナット	NUT	2
14-35	87-001	押え棒筒ネジ	SCREW	1
14-36	87-112	六角穴付きボルト	BOLT	2
14-37	87-483	プラマイナベ小ねじ	SCREW	2
14-38	87-476	プラマイナベ小ねじ	SCREW	1
14-39	87-171	六角穴付きボルト	BOLT	2
14-40	87-213	六角穴付きボルト	BOLT	1
14-41	87-224	六角穴付きボルト	BOLT	2
14-42	87-253	ネジ	SCREW	1
14-43	87-254	ネジ	SCREW	1
14-44	87-404	段付ネジ	SCREW	1
14-45	87-423	段ネジ	SCREW	1
14-46	88-003	筒ネジ ナット	NUT	1
14-47	93-205	Eリング	E-RING	1
14-48	77-270	糸緩めプレート	PLATE	1
14-49	87-233	ネジ	SCREW	1
14-50	87-286	ネジ	SCREW	1
14-51	71-038	押え棒	PRESSER FOOT BAR	1

15 給油機構 (1) LUBRICATION MECHANISM (1)



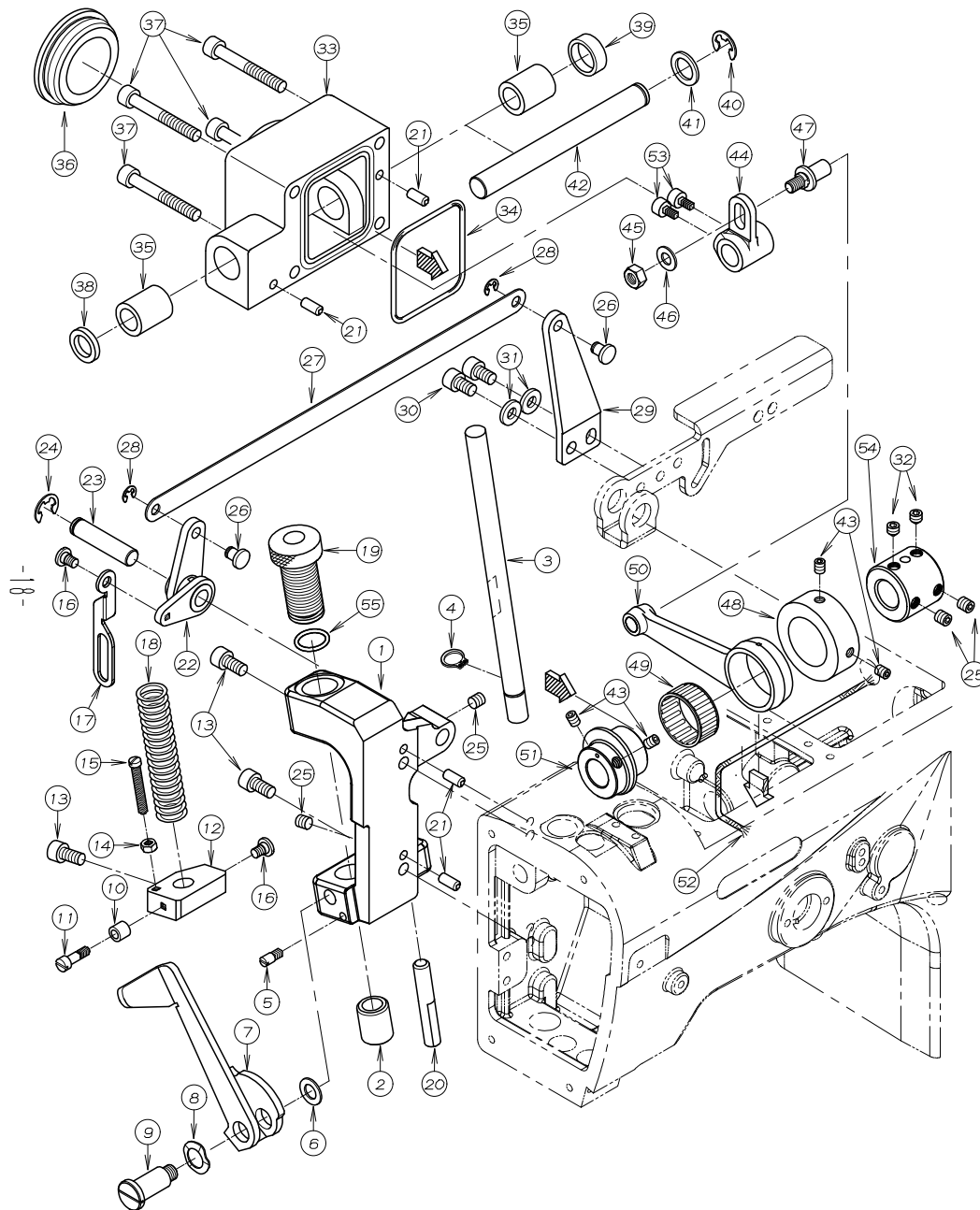
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
15-01	21-632W	オイルフィルターキャップ	OIL FILTER CAP	1
15-02	23-304	シール	SEAL	1
15-03	23-506	O-リング	O-RING	1
15-04	23-508	O-リング	O-RING	1
15-05	30-0019	ポンプセット	PUMP ASS'Y	1
15-06	30-5070	オイルタンクセット	OIL TANK ASS'Y	1
15-07	31-222	フィルター	OIL FILTER	1
15-08	31-507	オイルタンク	OIL RESERVOIR	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	プラマイナベ小ねじ	SCREW	3
15-23	87-171	六角穴付きボルト	BOLT	2
15-24	87-285	六角穴付きボルト	BOLT	2
15-25	87-286	ネジ	SCREW	2
15-26	87-311	フタネジ	SCREW	1
15-27	87-391	六角穴付ボルト	BOLT	2
15-28	87-663	六角穴付きボルト	BOLT	4
15-29	30-0020	ポンプセット	PUMP ASS'Y	1

16 給油機構 (2) LUBRICATION MECHANISM (2)



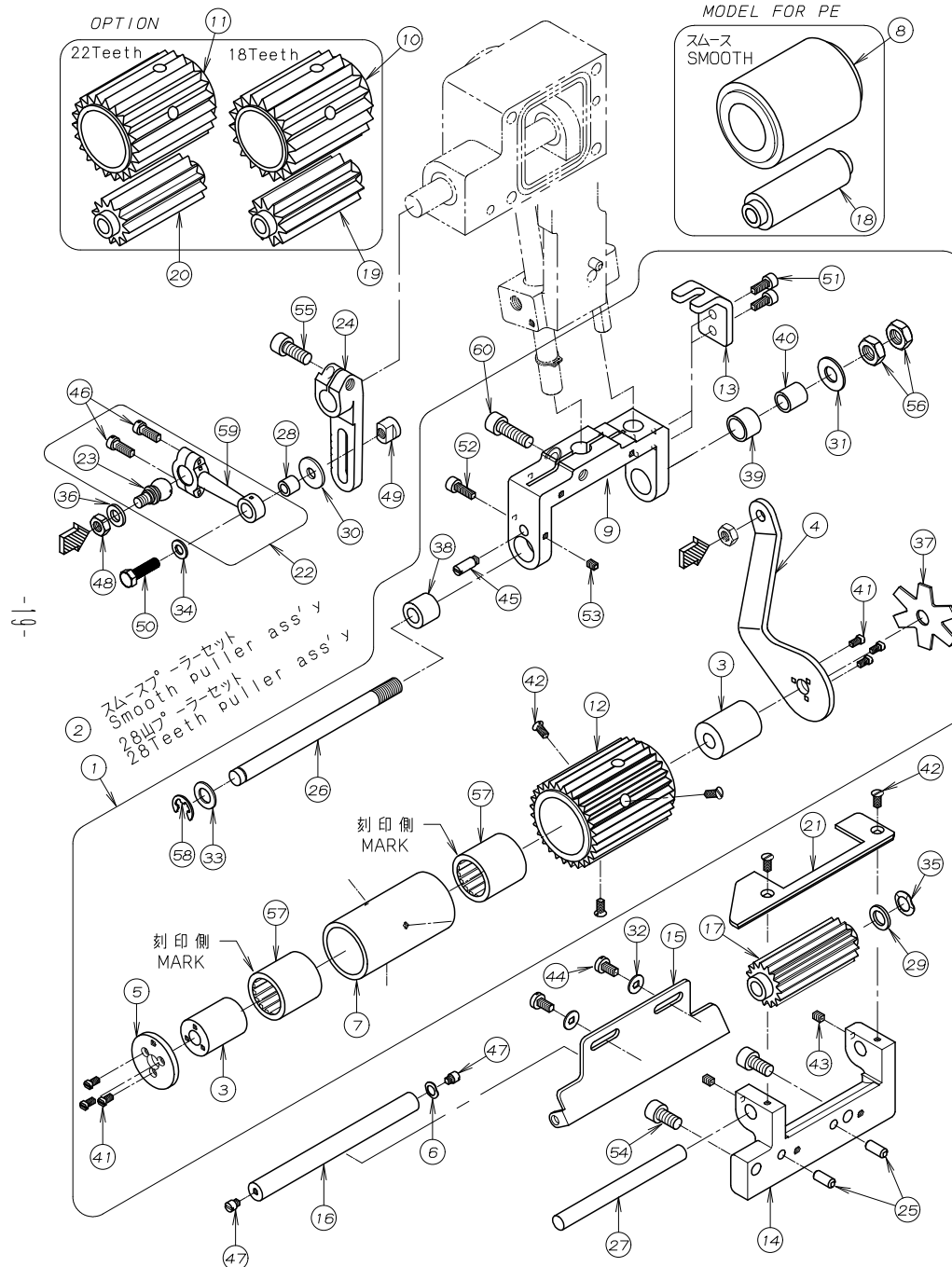
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
16-01	07-008	調節バンド	BAND	1
16-02	23-373	O-リング	O-RING	1
16-03	23-386	フェルト	FELT	1
16-04	23-558	給油サホート	SUPPORT	1
16-05	23-560	給油ハーフ	PIPE	1
16-06	23-562	スポンジ	SPONGE	1
16-07	23-567	フェルト	FELT	1
16-08	23-571	フェルト	FELT	1
16-09	23-574	フェルト	FELT	1
16-10	27-301	オイルフェンス	OIL COVER	1
16-11	31-314	継手	JOINT	2
16-12	35-005	ヒールチューブ 80L	TUBE	1
16-13	35-318	ヒールチューブ	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	ヒールチューブ 540L	TUBE	1
16-19	35-519	ヒールチューブ	TUBE	1
16-20	35-520	ヒールチューブ	TUBE	1
16-21	35-521	ヒールチューブ	TUBE	1
16-22	35-528	管継手ホルト	JOINT SCREW	3
16-23	35-529	管継手ホルト	JOINT SCREW	1
16-24	35-530	チューブバンド	CLAMP	1
16-25	35-537	ヒールチューブ	TUBE	1
16-26	35-540	リターン用ハーフ	PIPE	1
16-27	35-551	油調節プレート	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	ホップキヤ給油配管	PIPE	1
16-33	35-562	ヒールチューブ	TUBE (φ6xφ4.300L)	1
16-34	39-139	ハーフサホート	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	油量調節ブッシュ	ADJUSTING BUSHING	1
16-38	87-072	六角穴付止めねじ	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	油量調節ネジ	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)



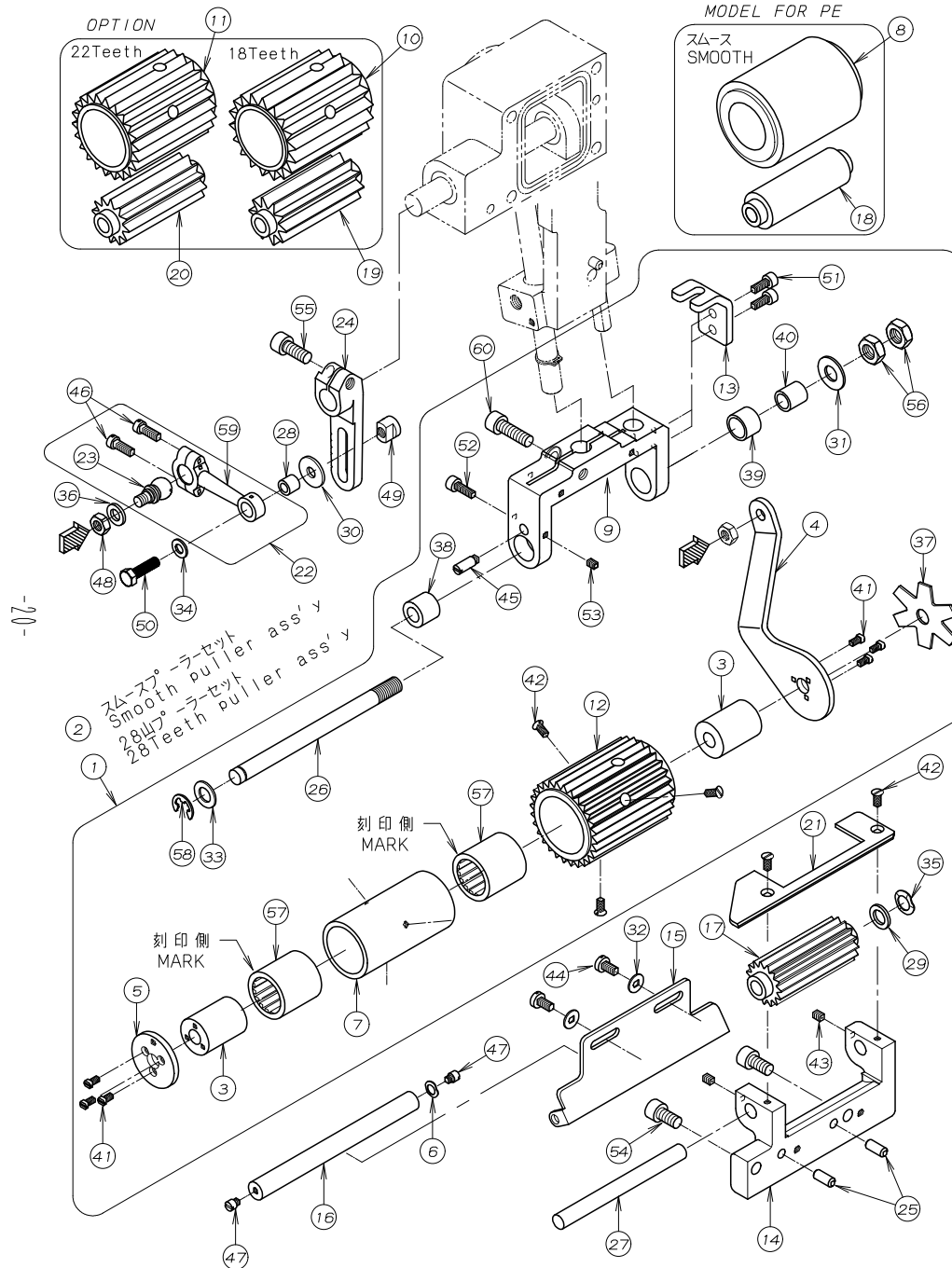
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
17-01	02-225W	後プーラーブラケット	REAR PULLER BRACKET	1
17-02	81-133	ブッシュ	BUSHING	1
17-03	71-464	後プーラー立シャフト	SHAFT	1
17-04	93-261	Eリング	E-RING	1
17-05	84-562	段ネジ	SCREW	1
17-06	75-519	ワッシャ	WASHER	1
17-07	02-216	手揚用金具	PULLER LIFTING LEVER	1
17-08	02-112	波ワッシャ	CORRUGATED WASHER	1
17-09	85-671	ネジ	SCREW	1
17-10	75-211	カラー	COLLAR	1
17-11	84-582	ネジ	SCREW	1
17-12	02-217	後プーラー立シャフト抱き	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	02-659	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	87-759	プーラー筒ネジ	SCREW	1
17-20	71-729	プーラー回り止メネジ	GUIDE PIN	1
17-21	71-208	ノックピン	PIN	4
17-22	02-219	後プーラー揚レバー	LEVER	1
17-23	71-726	シャフト	SHAFT	1
17-24	93-222	Eリング	E-RING	1
17-25	87-172	ネジ	SCREW	4
17-26	77-419	押易連結ピン	PIN	2
17-27	77-037	押易連結板	PLATE	1
17-28	93-205	Eリング	E-RING	2
17-29	77-421	押易レバー	LEVER	1
17-30	87-203	ネジ	SCREW	2
17-31	75-458	ワッシャ	WASHER	2
17-32	87-259	ネジ	SCREW	2
17-33	02-220W	上プーラー軸ケース	BRACKET	1
17-34	23-542	Oリング	O-RING	1
17-35	81-559	上プーラー軸ブッシュ	BUSHING	2
17-36	23-541	ゴム栓	PLUG	1
17-37	87-186	ネジ	SCREW	4
17-38	94-502	オイルシール	OIL SEAL	1
17-39	94-506	シールキャップ	PLUG	1
17-40	93-223	Eリング	E-RING	1
17-41	75-187	ワッシャ	WASHER	1
17-42	71-727	上プーラー駆動軸	SHAFT	1
17-43	87-254	ネジ	SCREW	4
17-44	67-528	上プーラー振りレバー	LEVER	1
17-45	88-166	ナット	NUT	1
17-46	75-452	ワッシャ	WASHER	1
17-47	04-502	調節レバーピン	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	六角ナット	BOLT	2
17-54	75-273	上軸ジョイント (P用)	JOINT COLLAR (for P model)	1
17-55	23-289	Oリング	O-RING	1

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



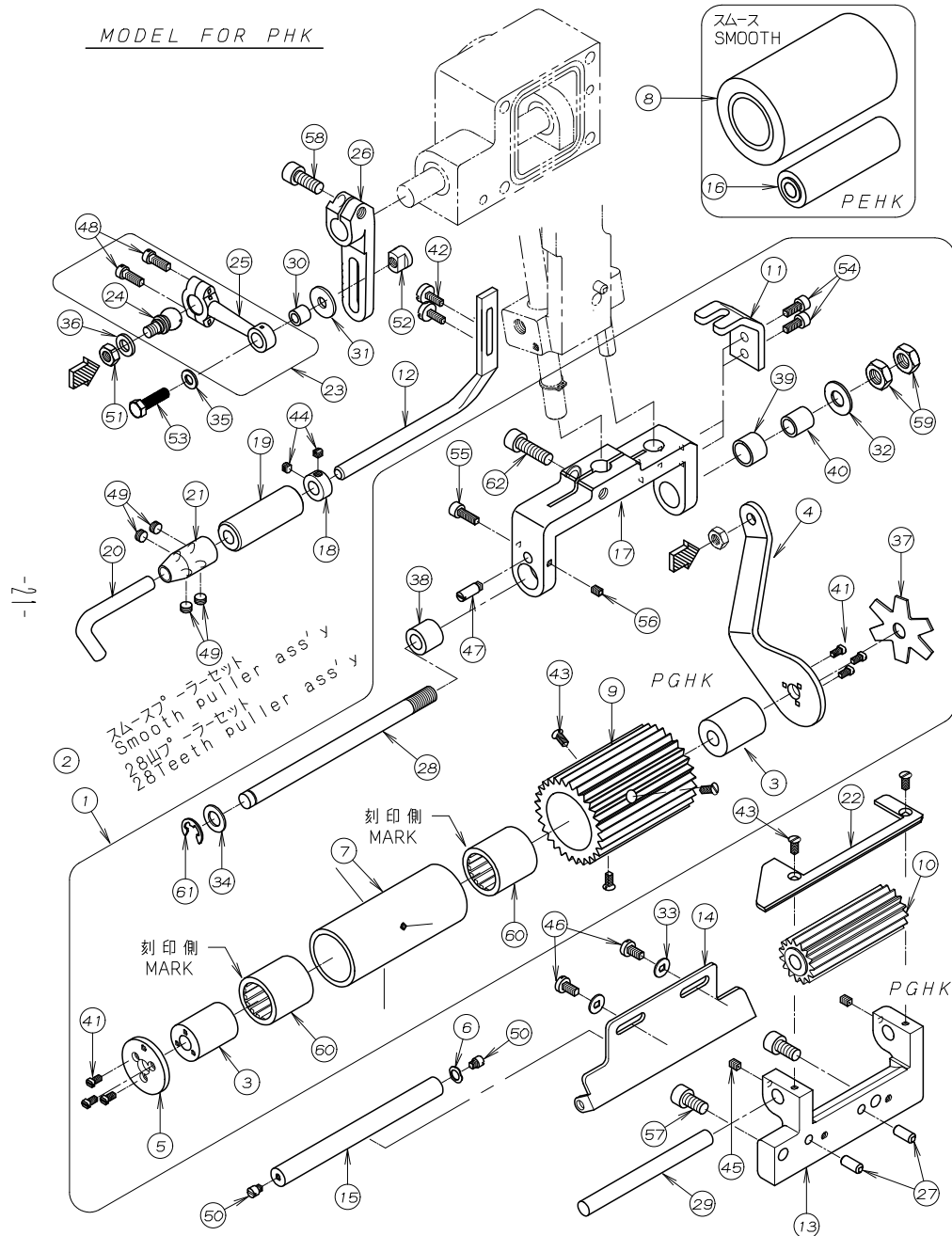
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
18-01	00-3282	28山プラーセット	28TEETH REAR PULLER ASS'Y	1
18-02	00-2008	スムーズプラーセット	SMOOTH PULLER ASS'Y	1
18-03	01-115	スリーブ	SLEEVE	2
18-04	02-017	後プラー連結板	CONNECTING PLATE	1
18-05	02-117	後プラーハイトフタ	PLATE	1
18-06	02-118	波ワッシャ	WASHER	1
18-07	02-123	ワッシャクワッチ用ハウジング (中)	CLUTCH HOUSING	1
18-08	02-136	スムーズ (中)	REAR PULLER (SMOOTH)	1
18-09	02-158	後プラー台	REAR PULLER HOLDER	1
18-10	02-176	後プラー上ギヤ-18山	UPPER REAR PULLER18	1
18-11	02-177	後プラー上ギヤ-22山	UPPER REAR PULLER22	1
18-12	02-178	後プラー上ギヤ-28山	UPPER REAR PULLER28	1
18-13	02-250	回り止フケット	BRACKET	1
18-14	02-252W	下プラー土台	BRACKET	1
18-15	02-253	補助ローラー取り付け板	PLATE	1
18-16	02-254	補助ローラー	ROLLER	1
18-17	02-255	後プラー下 (15山)	LOWER REAR PULLER GEAR (15 TEETH)	1
18-18	02-451	下ローラースmooth	REAR PULLER (SMOOTH)	1
18-19	02-452	下ローラー (10山)	REAR PULLER GEAR (10TEETH)	1
18-20	02-453	下ローラー (12山)	REAR PULLER GEAR (12TEETH)	1
18-21	21-715	下プラーガイド	PULLER GUIDE	1
18-22	60-8090	プラー連結ロッドセット	CONNECTING ROD ASS'Y	1
18-23	61-810	プラー連結ロッド玉	CONNECTING ROD BALL	1
18-24	67-529	上プラー駆動レバー	LEVER	1
18-25	71-208	ロックピン	PIN	2
18-26	71-444	後プラー台シャフト (中)	SHAFT	1
18-27	71-728	後プラー下シャフト	LOWER REAR PULLER SHAFT	1
18-28	75-247	連結メカネローラー	ROLLER	1
18-29	75-356	ワッシャ	WASHER	1
18-30	75-407	ワッシャ	WASHER	1
18-31	75-451	ワッシャ	WASHER	1
18-32	75-455	ワッシャ	WASHER	2
18-33	75-519	ワッシャ	WASHER	1
18-34	75-520	ワッシャ	WASHER	1
18-35	75-528	波座金	WASHER	1
18-36	75-552	ワッシャ	WASHER	1
18-37	79-551	プラー板ハネ	PULLER PLATE SPRING	1
18-38	81-321	ブッシュ	BUSHING	1
18-39	81-322	ブッシュ	BUSHING	1
18-40	81-323	ブッシュ	BUSHING	1
18-41	84-162	ネジ	SCREW	6
18-42	84-462	ネジ	SCREW	5
18-43	84-521	ネジ	SCREW	2
18-44	84-571	ネジ	SCREW	2
18-45	84-573	段ネジ	SCREW	1
18-46	84-635	ネジ	SCREW	2
18-47	85-607	段ネジ	SCREW	2
18-48	86-411	ナット	NUT	1
18-49	88-005	ナット	NUT	1
18-50	87-015	ネジ	SCREW	1
18-51	87-113	六角穴付きボルト	BOLT	2
18-52	87-129	六角穴付きボルト	BOLT	1
18-53	87-181	ネジ	SCREW	1
18-54	87-225	六角穴付きボルト	BOLT	2
18-55	87-171	六角穴付きボルト	BOLT	1
18-56	88-179	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 リング	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

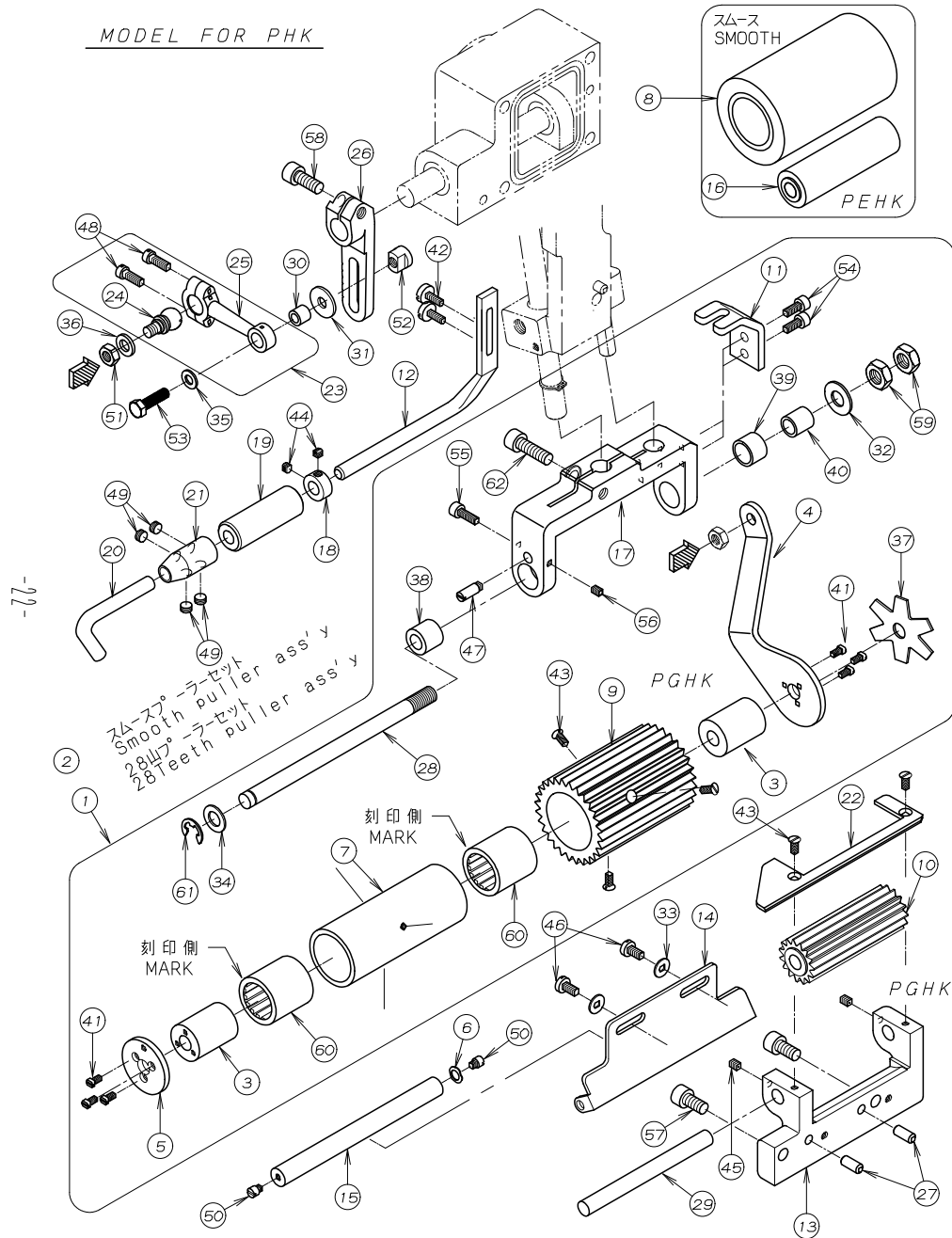
19. 後プーラー機構 (3-1) REAR PULLER MECHANISM (3-1)



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
19-01	00-4280	28山プーラーセット	28 TOOTH REAR PULLER ASS'Y	1
19-02	00-4283	スルスプーラーセット	SMOOTH PULLER ASS'Y	1
19-03	01-115	スリーブ	SLEEVE	2
19-04	02-018	後プーラー連結板	CONNECTING PLATE	1
19-05	02-117	後プーラーハーフフタ	PLATE	1
19-06	02-118	波ワッシャ	WASHER	1
19-07	02-124	ワッシャクラッチ用ハウジング (大)	HOUSING	1
19-08	02-138	後プーラー (コム)	REAR PULLER	1
19-09	02-228	後プーラー上28山	REAR PULLER GEAR (28 TEETH)	1
19-10	02-245	後プーラー下15山	LOWER REAR PULLER GEAR (15 TEETH)	1
19-11	02-246	回り止ブレース	BRACKET	1
19-12	02-247	コムガイド軸	ELASTIC TAPE GUIDE SHAFT	1
19-13	02-252W	下プーラー土台	BRACKET	1
19-14	02-253	補助ローラー取り付け板	PLATE	1
19-15	02-254	補助ローラー	ROLLER	1
19-16	02-455	下ローラースルス	REAR PULLER (SMOOTH)	1
19-17	02-159	後プーラー台	BRACKET	1
19-18	09-917	カラー	COLLAR	1
19-19	09-919	コムガイドローラー	TAPE GUIDE	1
19-20	09-923	プーラーコムガイド	ELASTIC GUIDE	1
19-21	09-984	コムガイド止めカラー	END COLLAR	1
19-22	27-038	下プーラーガイド	PULLER GUIDE	1
19-23	60-8090	プーラー連結ロッドセット	CONNECTING ROD ASS'Y	1
19-24	61-810	プーラー連結ロッド玉	CONNECTING ROD BALL	1
19-25	63-809	プーラー連結ロッド	BALL JOINT	1
19-26	67-529	上プーラー駆動レバー	LEVER	1
19-27	71-208	ロックピン	PIN	2
19-28	71-445	後プーラー台シャフト (大)	SHAFT	1
19-29	71-728	後プーラー下シャフト	LOWER REAR PULLER SHAFT	1
19-30	75-247	連結メカネローラー	ROLLER	1
19-31	75-407	ワッシャ	WASHER	1
19-32	75-451	ワッシャ	WASHER	1
19-33	75-455	ワッシャ	WASHER	2
19-34	75-519	ワッシャ	WASHER	1
19-35	75-520	ワッシャ	WASHER	1
19-36	75-552	ワッシャ	WASHER	1
19-37	79-551	プーラー板ハネ	PULLER PLATE SPRING	1
19-38	81-321	ブッシュ	BUSHING	1
19-39	81-322	ブッシュ	BUSHING	1
19-40	81-323	ブッシュ	BUSHING	1
19-41	84-162	ネジ	SCREW	6
19-42	84-368	ネジ	SCREW	2
19-43	84-462	ネジ	SCREW	5
19-44	84-511	ネジ	SCREW	2
19-45	84-521	ネジ	SCREW	2
19-46	84-571	ネジ	SCREW	2
19-47	84-573	段ネジ	SCREW	1
19-48	84-635	ネジ	SCREW	2
19-49	84-711	ネジ	SCREW	4
19-50	85-607	段ネジ	SCREW	2
19-51	86-411	ナット	NUT	1
19-52	88-005	ナット	NUT	1
19-53	87-015	ネジ	SCREW	1
19-54	87-113	六角穴付きボルト	BOLT	2
19-55	87-129	六角穴付きボルト	BOLT	1
19-56	87-181	ネジ	SCREW	1

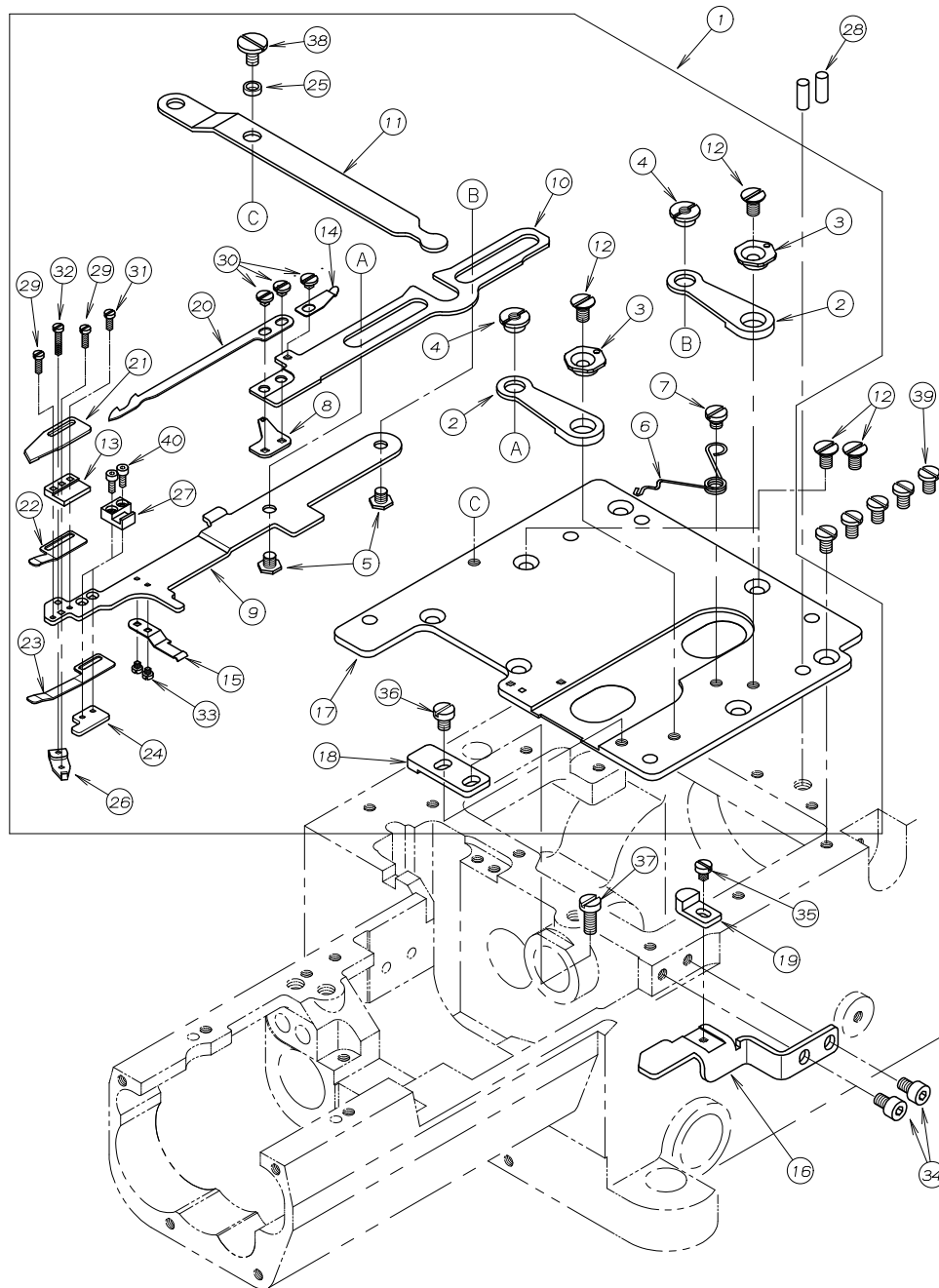
19. 後プーラー機構 (3-2) REAR PULLER MECHANISM (3-2)

MODEL FOR PHK



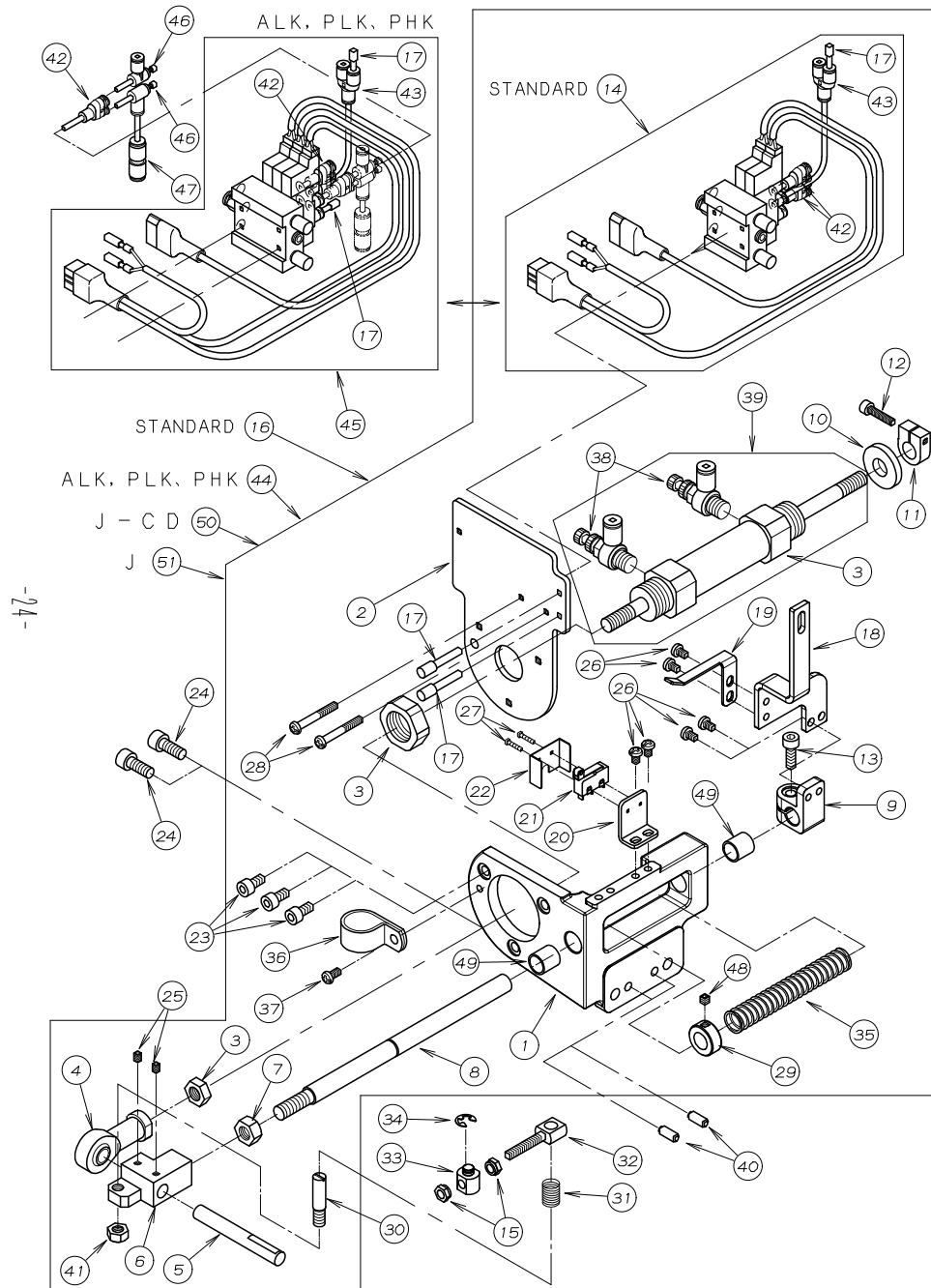
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
19-57	87-225	六角穴付きボルト	BOLT	2
19-58	87-171	六角穴付きボルト	BOLT	1
19-59	88-179	ナット	NUT	2
19-60	91-407	ワンウェイクラッチ	BEARING	2
19-61	93-221	ストップ リンク	E-RING	1
19-62	87-173	六角穴付きボルト	BOLT	1

20. 下糸切り装置 (UT) KNIFE MECHANISM (UT)



REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
20-01	00-8031	メスセット	THREAD TRIM ASSEMBLY	1
20-02	05-051	メスカイトレバー	LEVER	2
20-03	05-052	メスカイトレバー調節リング	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	固定メス台ハネ	SPRING	1
07-07	05-056	平頭付段ネジ	SCREW	1
20-08	05-057	ルーハース緩め糸道	THREAD EYELET	1
20-09	05-058	固定メス土台	UPPER KNIFE HOLDER	1
20-10	05-059	可動メス土台	LOWER KNIFE HOLDER	1
20-11	05-060	駆動レバー	LEVER	1
20-12	05-061	ネジ	SCREW	4
20-13	05-062	可動メスカイト	GUIDE	1
20-14	05-063	固定メス台補助ハネ	SPRING	1
20-15	05-064	固定メス台支ハネ	SPRING	1
20-16	05-065	カイトフラケット	GUIDE BRACKET	1
20-17	05-066	メス土台プレート	BASE PLATE	1
20-18	05-067	固定メス台ストッパ	STOPPER	1
20-19	05-068	可動メス台カイト	GUIDE	1
20-20	05-658	可動メス	LOWER KNIFE	1
20-21	05-812	固定メス	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	可動メスガイド	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

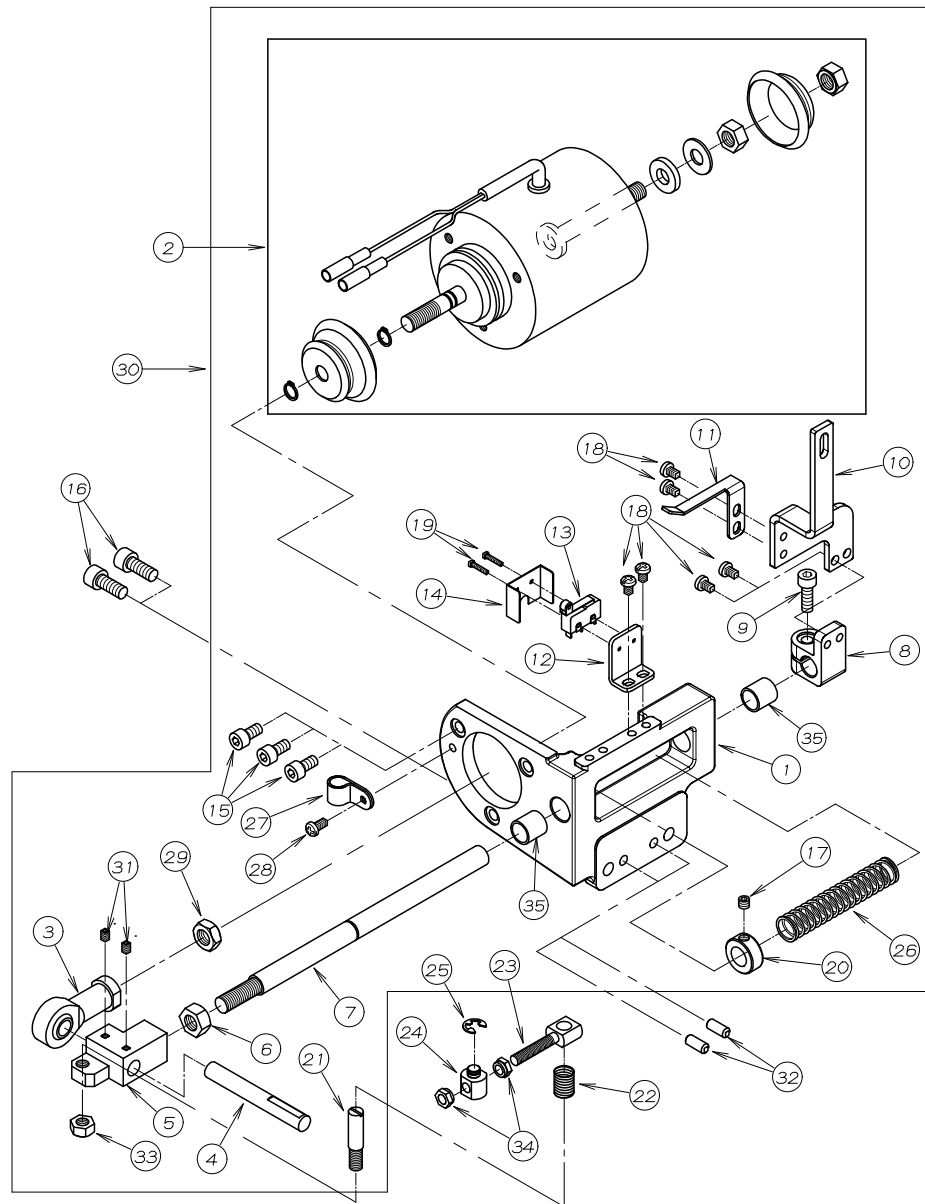
21. UT駆動装置(エア式) THREAD TRIMMING MECHANISM(PNEUMATIC TYPE)



REF. NO.	PART NO.	品 名	DESCRIPTION	Qty
21-01	05-901	シリンダ ー取付ブ ラケット	BRACKET	1
21-02	05-646	シリンダ ー取付板	PLATE	1
21-03	05-205	メス駆動シリンダ ー	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 ー取付台	BRACKET	1
21-10	05-907	クッションゴ ム	SHOCK RUBBER	1
21-11	05-220	クッションストッパ	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	調節ナット	NUT	2
21-16	00-6114	UT駆動装置	AIR CYLINDER ASSEMBLY	1
21-17	06-597	プ ラグ	PLUG	3
21-18	05-226	糸巻の連結プ 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	プラマイナベリねじ	SCREW	6
21-27	87-282	十字穴付ナベ 小ネジ	SCREW	2
21-28	87-488	プラマイナベリねじ	SCREW	2
21-29	75-537	カラー	COLLAR	1
21-30	05-829	連結ピン (2)	PIN	1
21-31	79-540	連結ピン用スプ リング	SPRING	1
21-32	05-913	連結ネジ	SCREW	1
21-33	05-045	連結ピン	PIN	1
21-34	93-211	Eリング	E RING	1
21-35	79-644	戻しバネ	SPRING	1
21-36	06-927	ナイロンクリップ	CORD CLAMP	1
21-37	87-482	プラマイナベリねじ	SCREW	1
21-38	06-580	スピード コントローラ	SPEED CONTROLLER	2
21-39	00-6083	メス駆動シリンダ ーセット	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	プランチュニオンワイ	JOINT	2~3
21-43	05-482	ユニオンワイ	JOINT	1
21-44	00-6121	UT駆動装置	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 コントローラ	SPEED CONTROLLER	2
21-47	05-224	異径ストレート	JOINT	1
21-48	87-274	ネジ	SCREW	1
21-49	81-588	ブ ッシュ	BUSHING	2
21-50	00-6140	UT駆動装置	AIR CYLINDER ASSEMBLY	1
21-51	00-6123	UT駆動装置	AIR CYLINDER ASSEMBLY	1

22. UT駆動装置 (電気式)

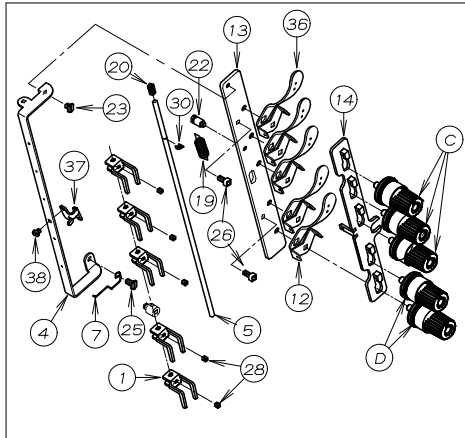
THREAD TRIMMING MECHANISM (ELECTRIC TYPE)



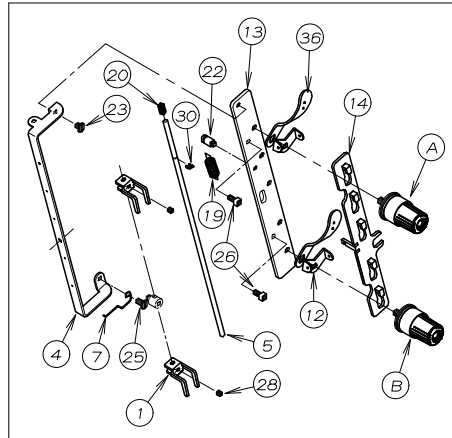
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
22-01	05-901	シリンダ ー取付ブ ラケット	BRACKET	1
22-02	06-336	メス用ソレノイド	SOLENOID	1
22-03	05-842	ロッドエンド	ROD	1
22-04	05-904	連結シャフト	SHAFT	1
22-05	05-828	連結ブ ラケット	BRACKET	1
22-06	88-176	ナット	NUT	1
22-07	05-905	戻しシャフト	SHAFT	1
22-08	05-927	レバ ー取付台	BRACKET	1
22-09	87-245	六角穴付きボルト	BOLT	1
22-10	05-226	糸巻の連結プ レート	PLATE	1
22-11	05-294	スイッチガ イド	SWITCH PLATE	1
22-12	05-910	スイッチ取付板	PLATE	1
22-13	05-911	スイッチ	SWITCH	1
22-14	05-912	スイッチカバー	COVER	1
22-15	87-213	ネジ	SCREW	3
22-16	87-171	ネジ	SCREW	2
22-17	87-274	ネジ	SCREW	1
22-18	87-481	プラマイナベネジ	SCREW	6
22-19	87-282	十字穴付きベネジ	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	プラマイナベネジ	SCREW	1
22-29	88-179	ナット	NUT	1
22-30	00-6115	UT電気式糸巻装置	SOLENOID ASSEMBLY	1
22-31	87-181	ネジ	SCREW	2
22-32	71-208	ロックピン	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)

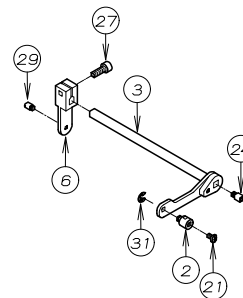
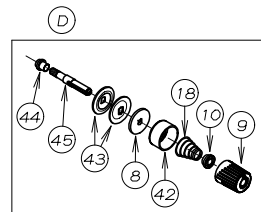
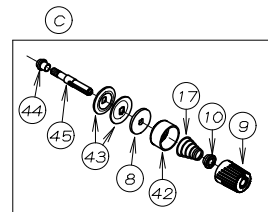
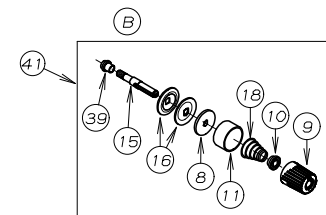
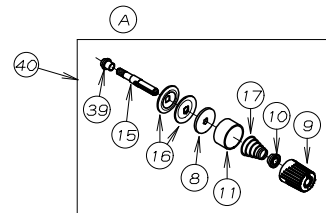
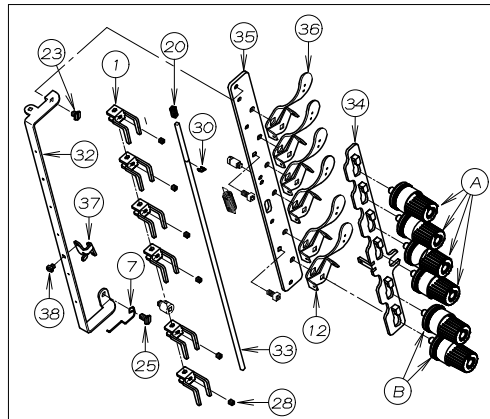
9803G



9701G



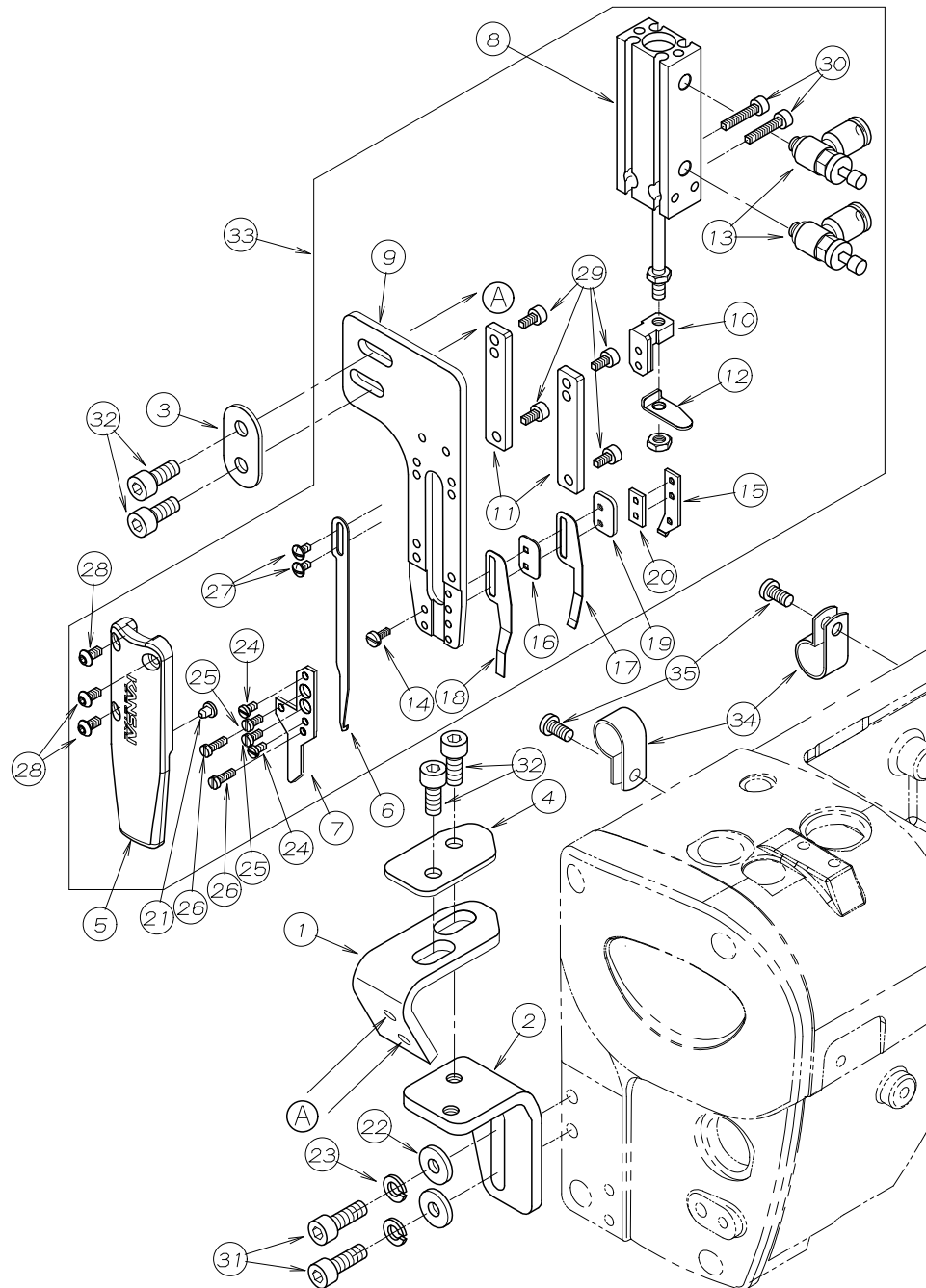
9804G



REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
23-01	05-850	糸緩めブロック (大)	HOLDER (LARGE)	5-6
23-02	05-853	糸緩め連結片	HOLDER	1
23-03	05-955	糸緩め軸	SHAFT	1
23-04	05-956	糸緩め糸道	THREAD EYELET	1
23-05	05-957	糸緩め棒	SHAFT	1
23-06	05-958	クランクレハ	LEVER	1
23-07	05-961	糸緩め防振ハネ	SPRING	1
23-08	23-324	フェルト	FELT	5-6
23-09	41-104	チャンポン皿小ケース	THREAD TENSION NUT	5-6
23-10	41-105	チャンポン皿ラチェット	SPRING POST	5-6
23-11	41-106	大ケース	SPRING CUP	5-6
23-12	41-115	糸道 (上)	THREAD GUIDE (UPPER)	5-6
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	41-527	調子棒	SCREW STUD	5-6
23-16	41-509	チャンポン皿	TENSION DISC	10-12
23-17	41-701	チャンポン調子バネ (強)	SPRING (HEAVY)	3
23-18	41-702	チャンポン調子バネ (弱)	SPRING (LIGHT)	1-2
23-19	79-514	引張りバネ	SPRING	1
23-20	79-542	糸緩め棒防振バネ	SPRING	1
23-21	84-361	ネジ	SCREW	1
23-22	84-501	ネジ	SCREW	1
23-23	84-553	ネジ	SCREW	1
23-24	84-561	ネジ	SCREW	1
23-25	84-574	ネジ	SCREW	1
23-26	87-177	六角穴付きボルト	BOLT	2
23-27	87-224	六角穴付きボルト	BOLT	1
23-28	87-286	ネジ	SCREW	5-6
23-29	87-423	段ネジ	SCREW	1
23-30	93-201	Eリング	E-RING	1
23-31	93-205	E-リンク	E-RING	1
23-32	05-962	糸緩め糸道	THREAD EYELET	1
23-33	05-963	糸緩め棒	SHAFT	1
23-34	41-519	糸緩めプレート	THREAD RELEASER	1
23-35	41-525	ブラケット	BRACKET	1
23-36	41-117	糸道 (下)	THREAD GUIDE	*
23-37	41-514	ルーハ糸道	THREAD EYELET	1
23-38	84-364	ネジ	SCREW	1
23-39	41-526	調子棒カラー	COLLAR	5-6
23-40	40-7510	チャンポンセット (強)	THREAD TENSION SET (HEAVY)	*
23-41	40-7520	チャンポンセット (弱)	THREAD TENSION SET (LIGHT)	*
23-42	41-108	チャンポン大ケース	SPRING CUP	*
23-43	41-528	チャンポン皿	TENSION DISC	*
23-44	41-531	調子棒カラー	COLLAR	*
23-45	41-532	調子棒	SCREW STUD	*

24. 上飾り糸切装置 (エア-式)

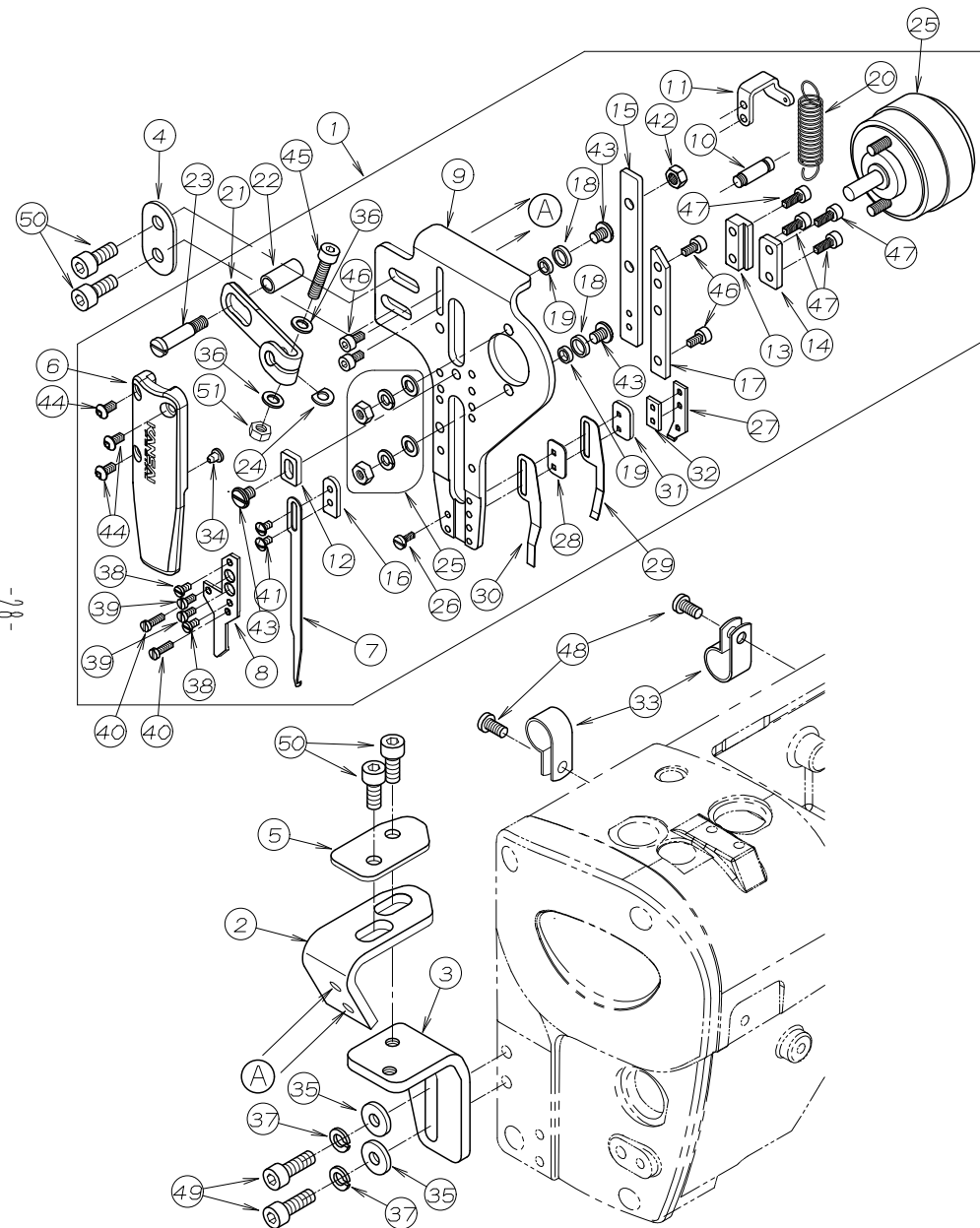
SPREADER THREAD TRIMMING MECHANISM (PNEUMATIC TYPE)



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	取付ベースプレート	BASE PLATE	1
24-10	05-280	シリンダーブロック	CYLINDER BLOCK	1
24-11	05-281	ガイド	GUIDE	2
24-12	05-282	調節レバー	LEVER	1
24-13	05-481	スピードコントローラー	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 (強)	LEAF SPRING	1
24-18	06-605	メス裏ハネ (弱)	LEAF SPRING	1
24-19	06-608	裏ハネ止板	PLATE	1
24-20	06-630	ハネ調節スプレッドプレート	PLATE	1
24-21	23-512	クッションゴム	CUSHION RUBBER	1
24-22	75-456	ワッシャー	WASHER	2
24-23	75-526	スプリングワッシャー	SPRING WASHER	2
24-24	85-102	ネジ	SCREW	2
24-25	85-105	ネジ	SCREW	2
24-26	85-106	ネジ	SCREW	2
24-27	85-613	ネジ	SCREW	2
24-28	87-099	ネジ	SCREW	3
24-29	87-123	六角穴付きボルト	BOLT	4
24-30	87-140	六角穴付きボルト	BOLT	2
24-31	87-245	六角穴付きボルト	BOLT	2
24-32	87-252	六角穴付きボルト	BOLT	4
24-33	00-8096	上飾り糸切セット (エア-)	THREAD TRIM ASS'Y (AIR)	1
24-34	06-928	ナイロンクリップ	CLAMP	2
24-35	87-482	プラマイナベ小ねじ	SCREW	2

25. 上飾り糸切装置 (電気式)

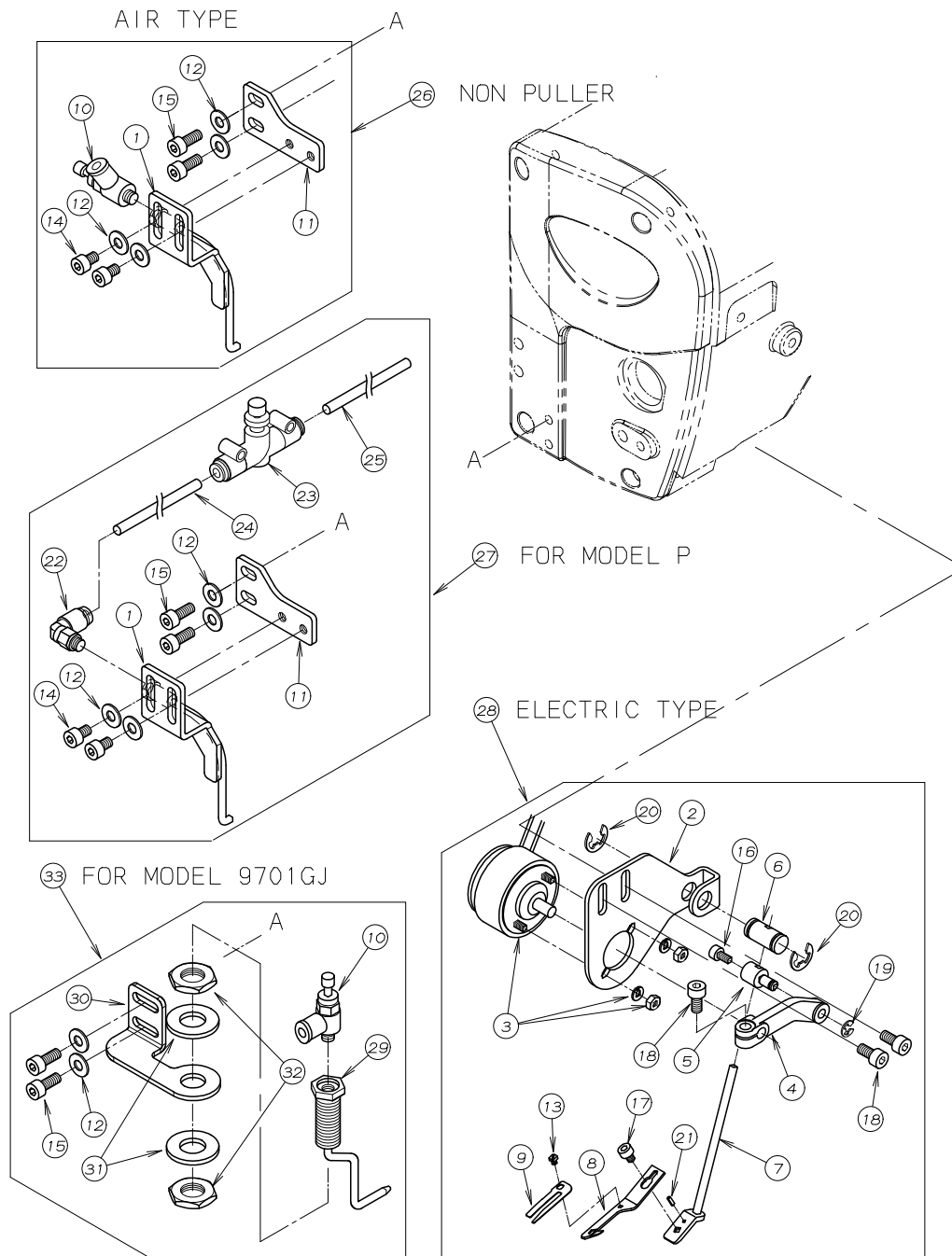
SPREADER THREAD TRIMMING MECHANISM (ELECTRIC TYPE)



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

26. 上糸払い装置 THREAD WIPER MECHANISM

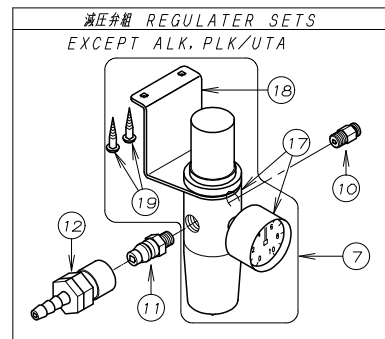
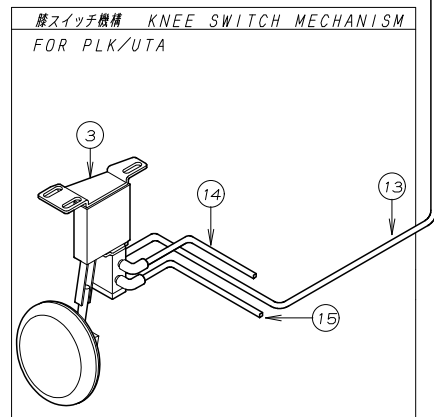
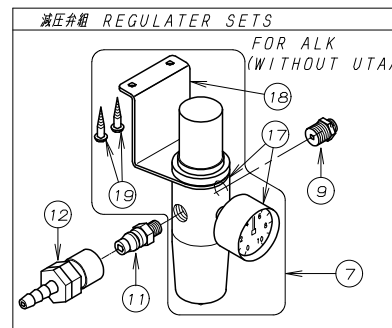
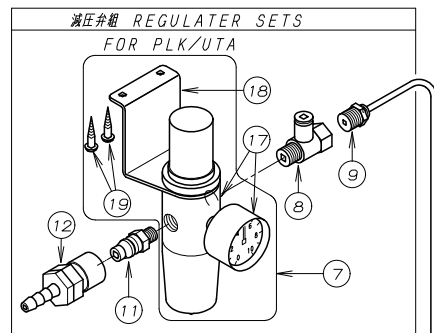
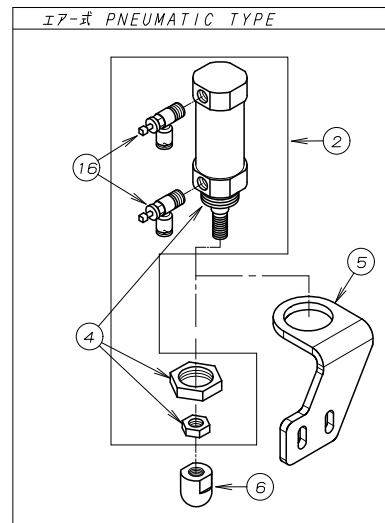
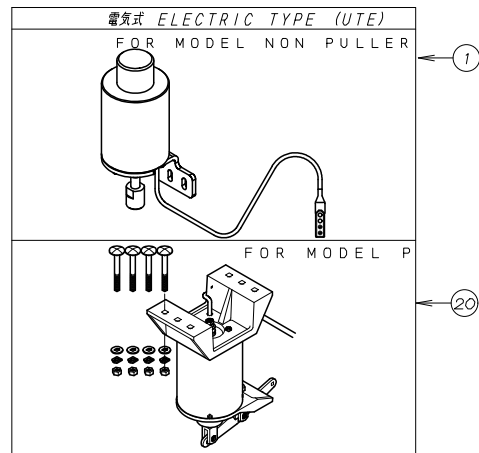
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REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
26-01	06-283	エアノズル	AIR NOZZLE	1
26-02	06-491	ソレノイド 取付台	BRACKET	1
26-03	06-492	ワイパーソレノイド	SOLENOID	1
26-04	06-493	ソレノイド レバー	LEVER	1
26-05	06-494	段付ピン	PIN	1
26-06	06-495	案内ピン	GUIDE PIN	1
26-07	06-496	ワイパー取付台	BRACKET	1
26-08	06-497	ワイパー	WIPER	1
26-09	06-498	糸挟みハネ	SPRING	1
26-10	06-559	スピードコントローラー	SPEED CONTROLLER	1
26-11	27-236	エアノズル取付プレート	BRACKET	1
26-12	75-455	ワッシャ	WASHER	4
26-13	87-091	ネジ	SCREW	1
26-14	87-092	六角穴付きボルト	BOLT	2
26-15	87-113	六角穴付きボルト	BOLT	2
26-16	87-123	六角穴付きボルト	BOLT	1
26-17	87-142	ネジ	SCREW	1
26-18	87-177	六角穴付きボルト	BOLT	3
26-19	93-201	Eリング	E-RING	1
26-20	93-213	E型止め輪	E-RING	2
26-21	93-717	スプリングピン	SPRING PIN	1
26-22	05-202	エルボユニオン	JOINT	1
26-23	05-640	スピードコントローラー	SPEED CONTROLLER	1
26-24	05-495	エアチューブ $\phi 4 \times 260\text{mm}$	AIR TUBE $\phi 4 \times 260\text{mm}$	1
26-25	05-493	エアチューブ $\phi 4 \times 400\text{mm}$	AIR TUBE $\phi 4 \times 400\text{mm}$	1
26-26	00-8036	糸払い装置 (エア)	WIPER MECHANISM ASS'Y (AIR)	1
26-27	00-8037	糸払い装置 (エア)	WIPER MECHANISM ASS'Y (AIR)	1
26-28	00-8045	糸払い装置 (電気)	WIPER MECHANISM ASS'Y (ELECTRIC)	1
26-29	06-282	エアノズル	AIR NOZZLE	1
26-30	27-369	エアフックラケット	BRACKET	1
26-31	75-538	ワッシャ	WASHER	2
26-32	86-801	ナット	NUT	2
26-33	00-8038	糸払い装置 (エア)	WIPER MECHANISM ASS'Y (AIR)	1

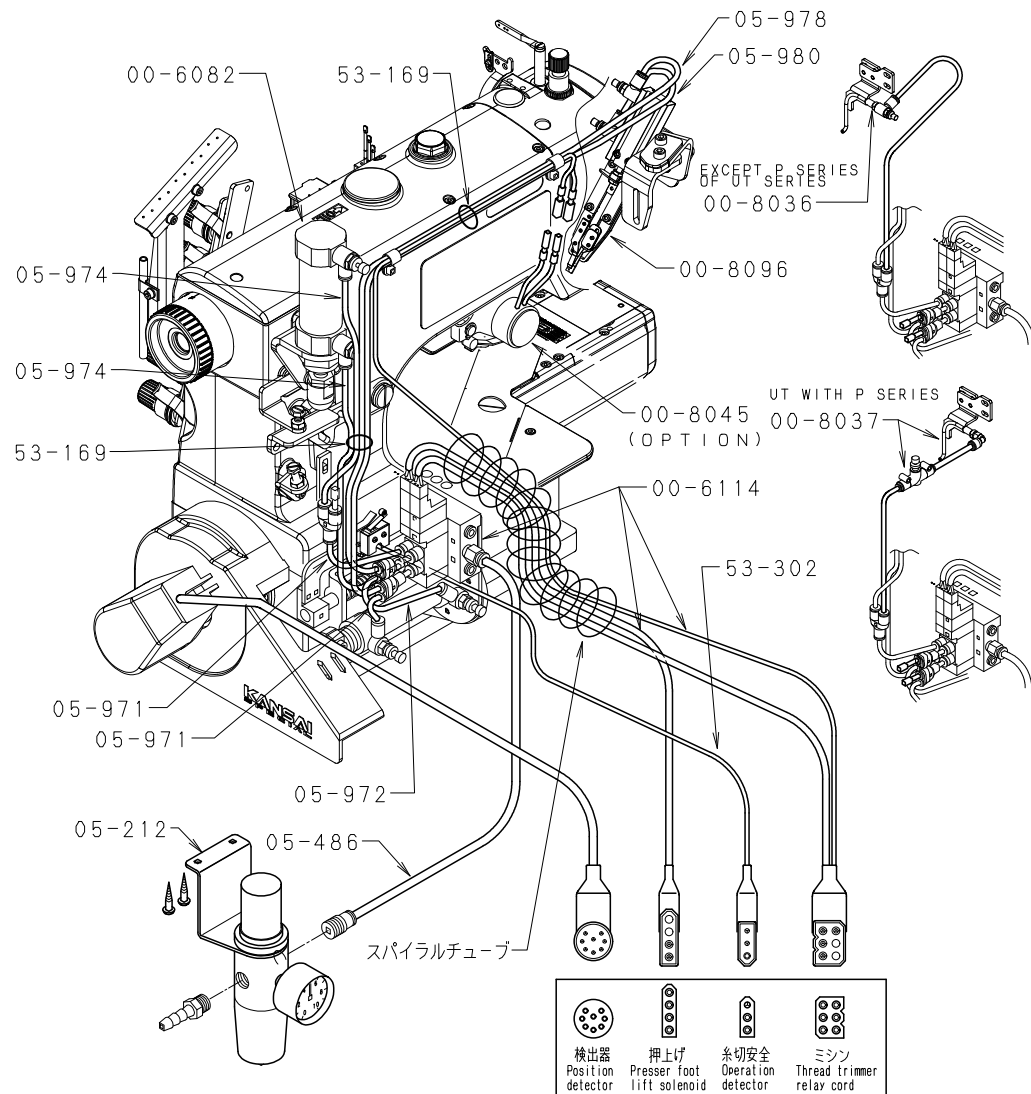
27. 押え揚げ装置, レギュレーターセット, 膝スイッチ機構

FOOT LIFTER MECHANISM, REGULATOR SETS, KNEE SWITCH MECHANISM



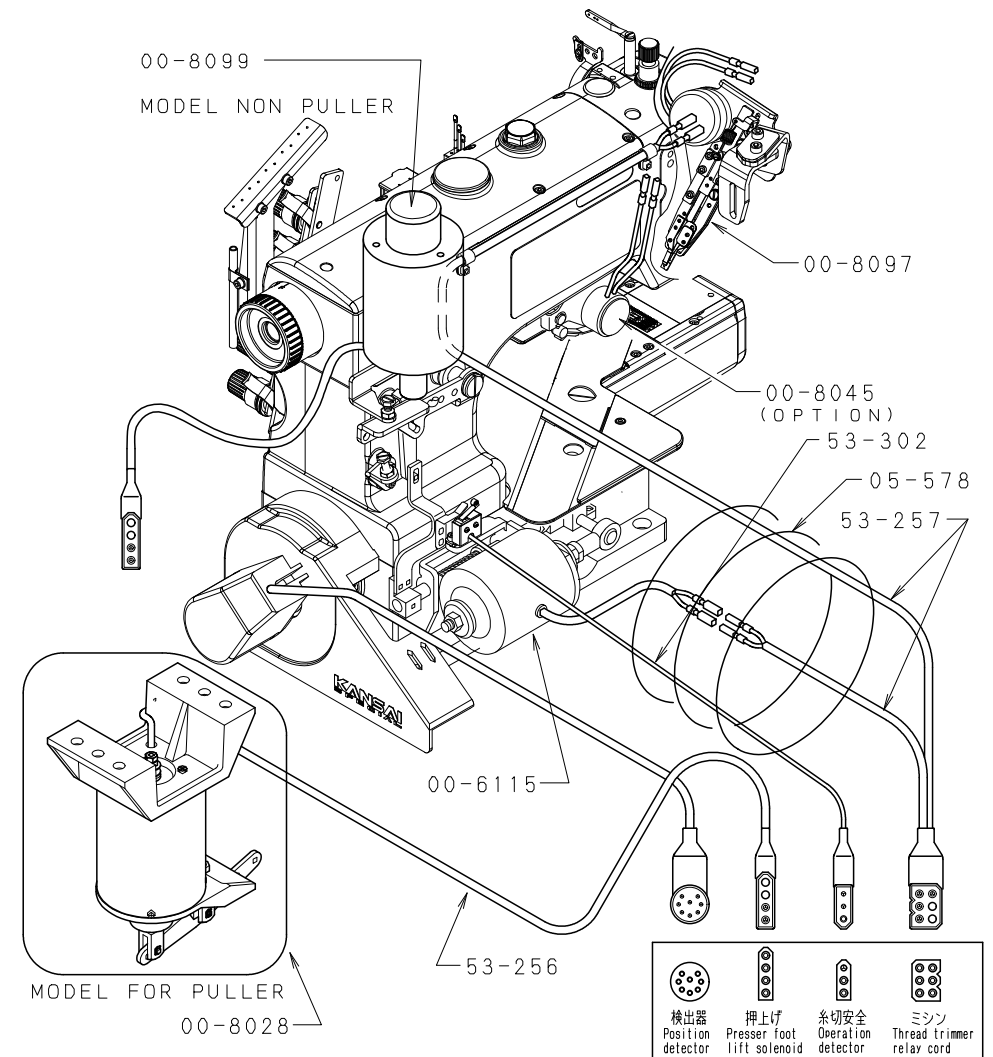
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
27-01	00-8099	電気式押え揚げセット	FOOT LIFTER SOLENOID ASS' Y	1
27-02	00-6082	押え揚げシリンダーセット	AIR CYLINDER ASS' Y	1
27-03	00-6118	膝スイッチセット	KNEE SWITCH ASS' Y	1
27-04	05-207	押え揚げシリンダー	AIR CYLINDER	1
27-05	77-032	シリンダーブレースラケット	BRACKET	1
27-06	05-897	作動器具	BRACKET	1
27-07	05-212	フィルタレギュレーター	REGULATOR	1
27-08	05-214	ユニハースサルメスエルボ	JOINT	1
27-09	05-217	ハーフユニオン	JOINT	1
27-10	05-218	レギュレーター用継手	JOINT	1
27-11	06-516	カフラメス	CONNECTOR	1
27-12	06-517	カフラオス	CONNECTOR	1
27-13	05-932	エアチューブ Ø4x1500mm	AIR TUBE Ø4x1500mm	1
27-14	05-938	エアチューブ Ø4x450mm	AIR TUBE Ø4x450mm	1
27-15	05-939	エアチューブ Ø4x500mm	AIR TUBE Ø4x500mm	1
27-16	06-580	スピードコントローラー	SPEED CONTROLLER	2
27-17	05-2120-A	フィルタレギュレーター	REGULATOR	1
27-18	05-2120-B	取付けブラケット	BRACKET	1
27-19	87-905	木ネジ	SCREW	2
27-20	00-8028	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)



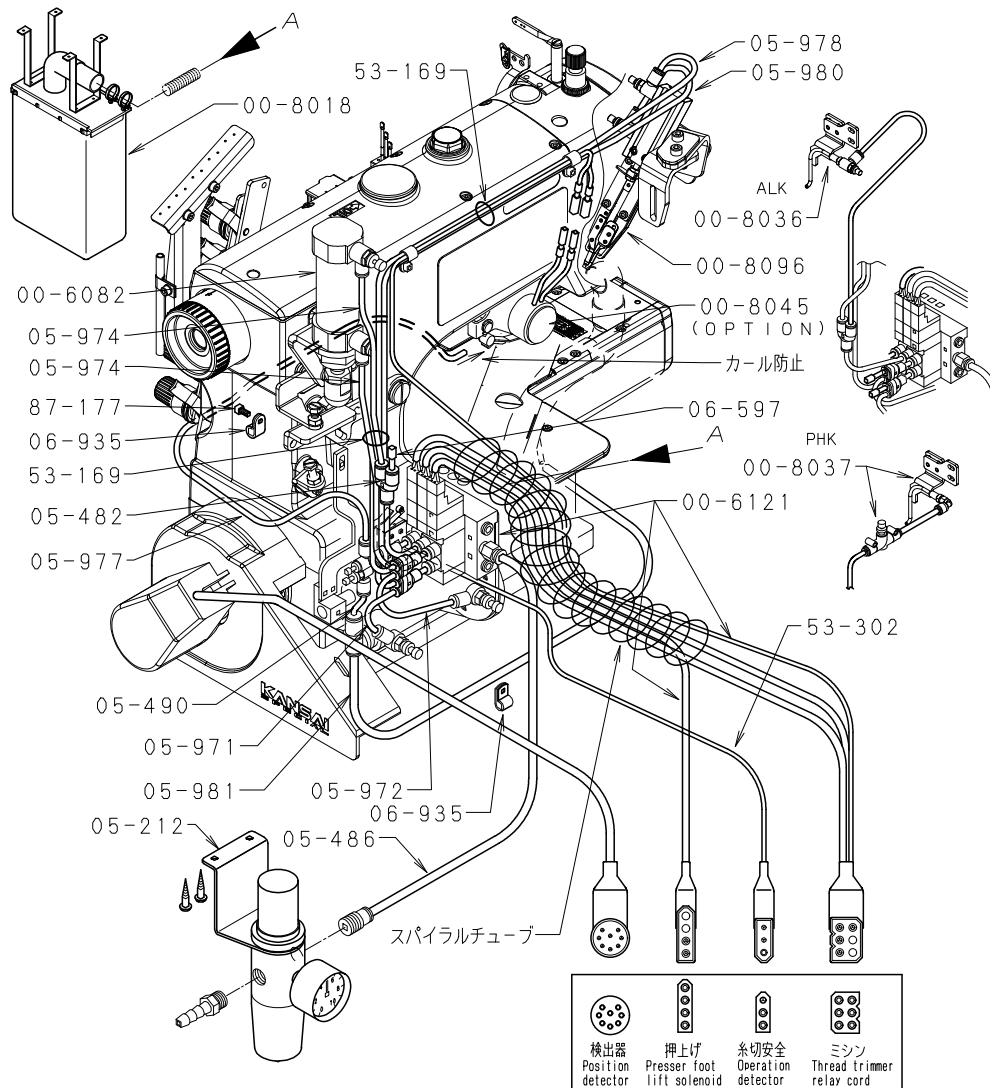
PART NO.	品 名	description
00-8096	上糸糸切装置 (エア式)	spreader thread trimming mechanism (AIR TYPE)
00-8036	上糸払い装置 (エア式)	thread wiper mechanism ass'y (air)
00-8037	上糸払い装置 (エア式)	thread wiper mechanism ass'y (air)
00-6082	押機シリンダーセット	presser foot lifter cylinder ass'y
00-6114	UT空気装置	air cylinder assembly (UTA)
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)



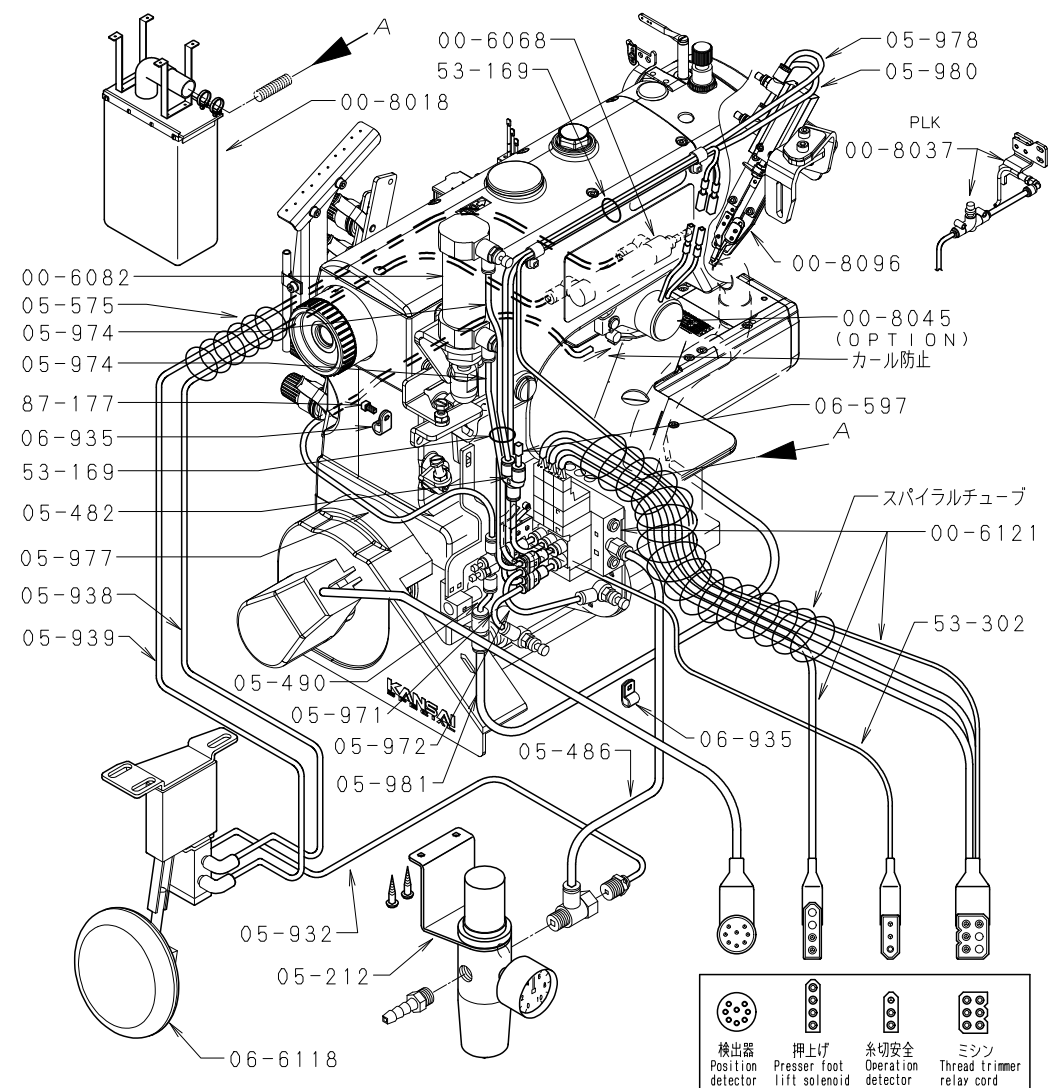
PART NO.	品 名	description
00-8097	上糸糸切装置	spreader thread trimming mechanism
00-8099	UT電気式押揚げ装置	presser foot lifter solenoid ass'y (FOR NON PULLER)
00-8028	UT電気式押揚げ装置	presser foot lifter solenoid ass'y (FOR PULLER)
00-6115	UT電気式下糸切装置	solenoid assembly (UTE)
00-8045	上糸払い装置	thread wiper mechanism ass'y (electric)
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)

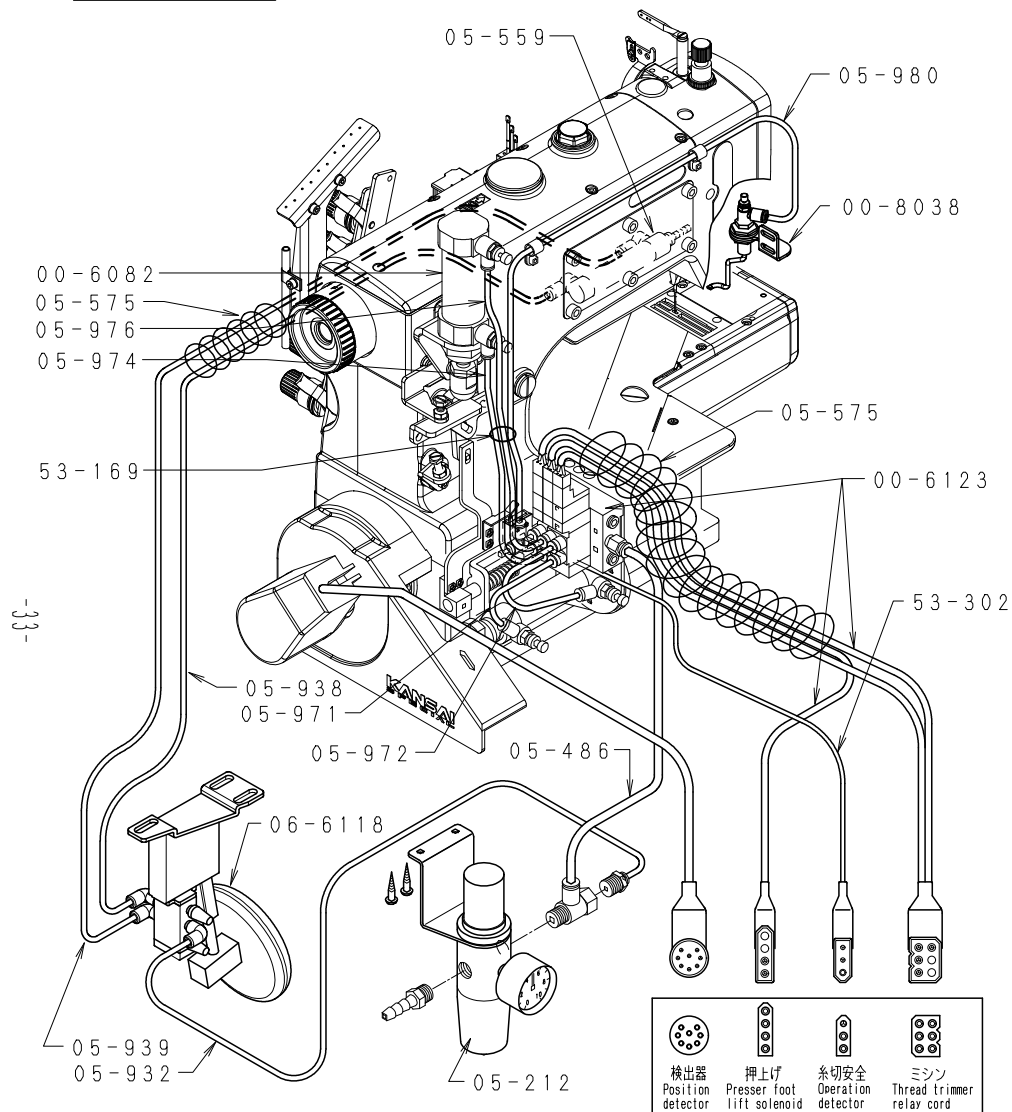
28-4. 配管, 配線図 (PLK エア式) WIRING AND PIPING (PNEUMATIC TYPE)



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)

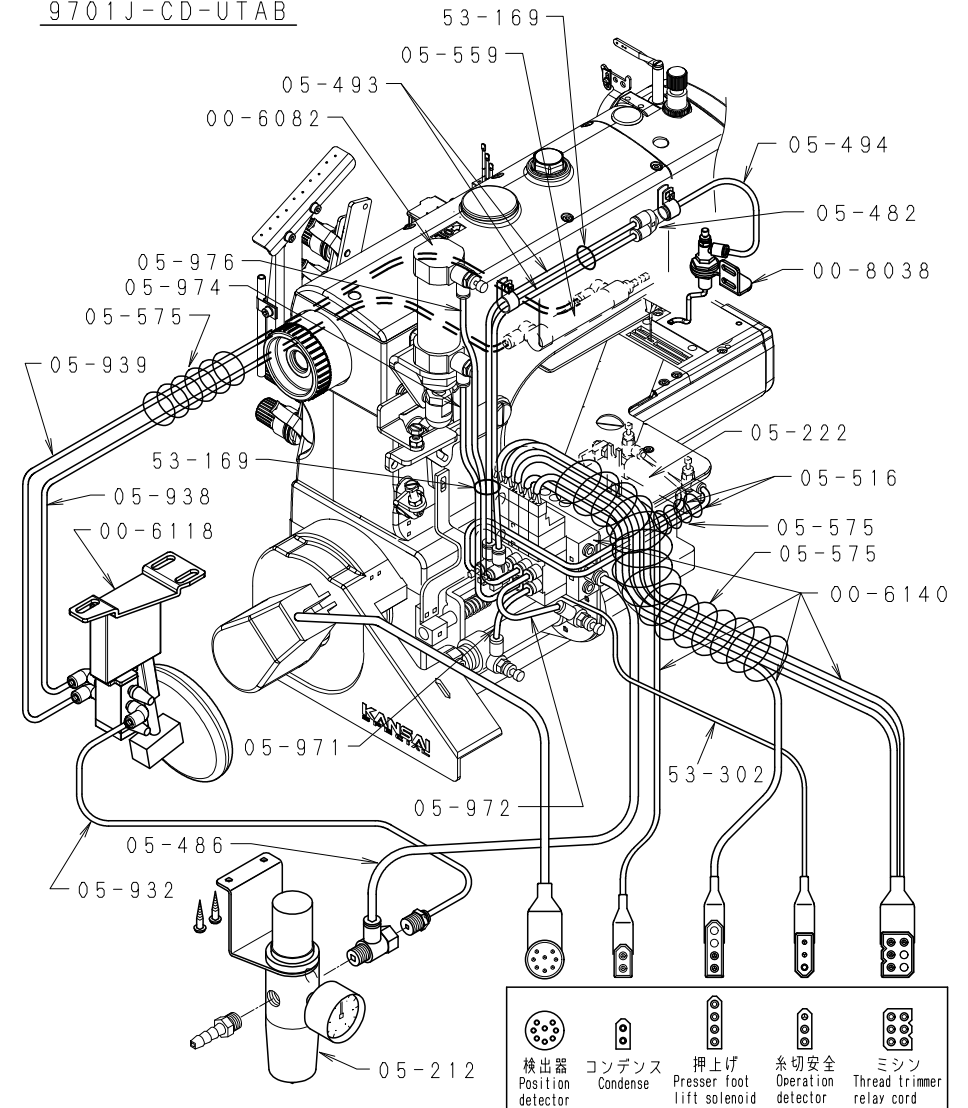
9701J-UTAB



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

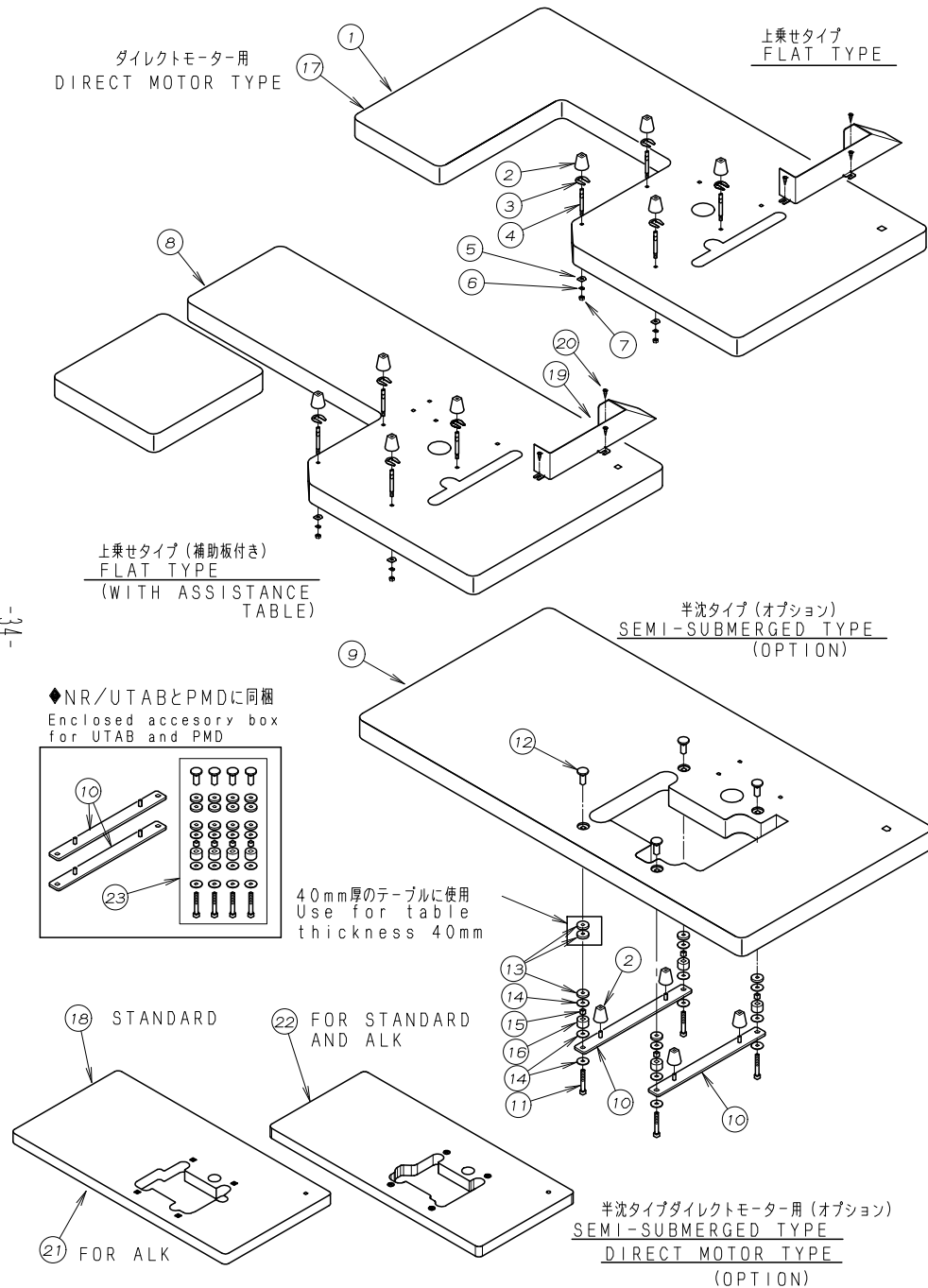
28-6. 配管, 配線図 (J-CD エア式) WIRING AND PIPING (PNEUMATIC TYPE)

9701J-CD-UTAB



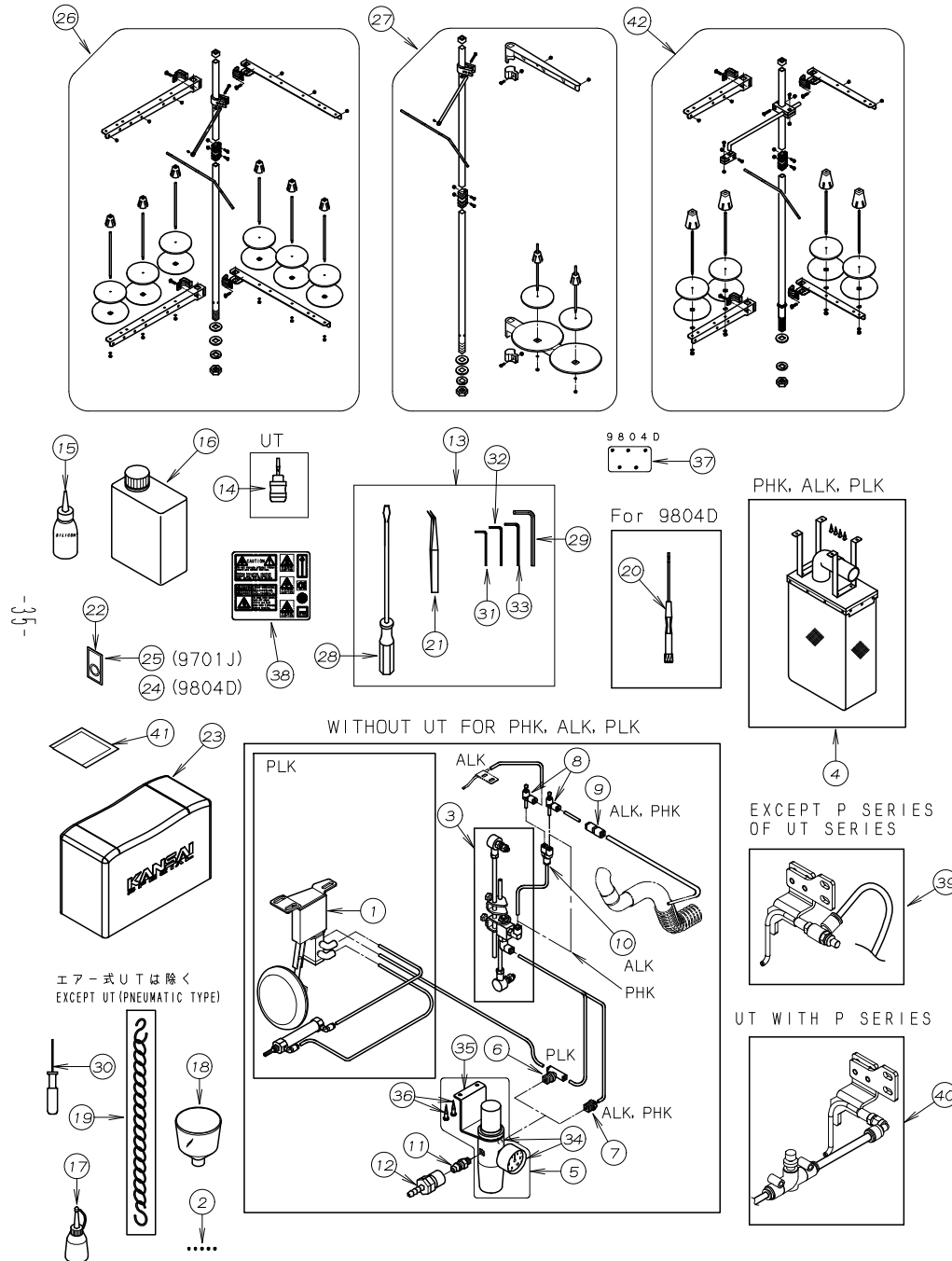
PART NO.	品 名	description
00-8038	上糸払い装置 (エア式)	thread wiper mechanism ass'y (air)
00-6082	押揚シリンダーセット	presser foot lifter cylinder ass'y
00-6140	UT空圧装置	air cylinder assembly (UTA)
05-212	レギュレータ	regulator
00-6118	膝スイッチセット	knee switch ass'y

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	クッションゴム取付ネジ	SCREW	4
29-05	75-536	平ワッシャー	WASHER	4
29-06	75-527	M6用バネ座金	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	半沈テーブルダイレクトモーター用	SEMI SUBMERGED TABLE DIRECT MOTOR	1
29-23	20-0040	マシン据付部品セット	ACCESSORIES	1

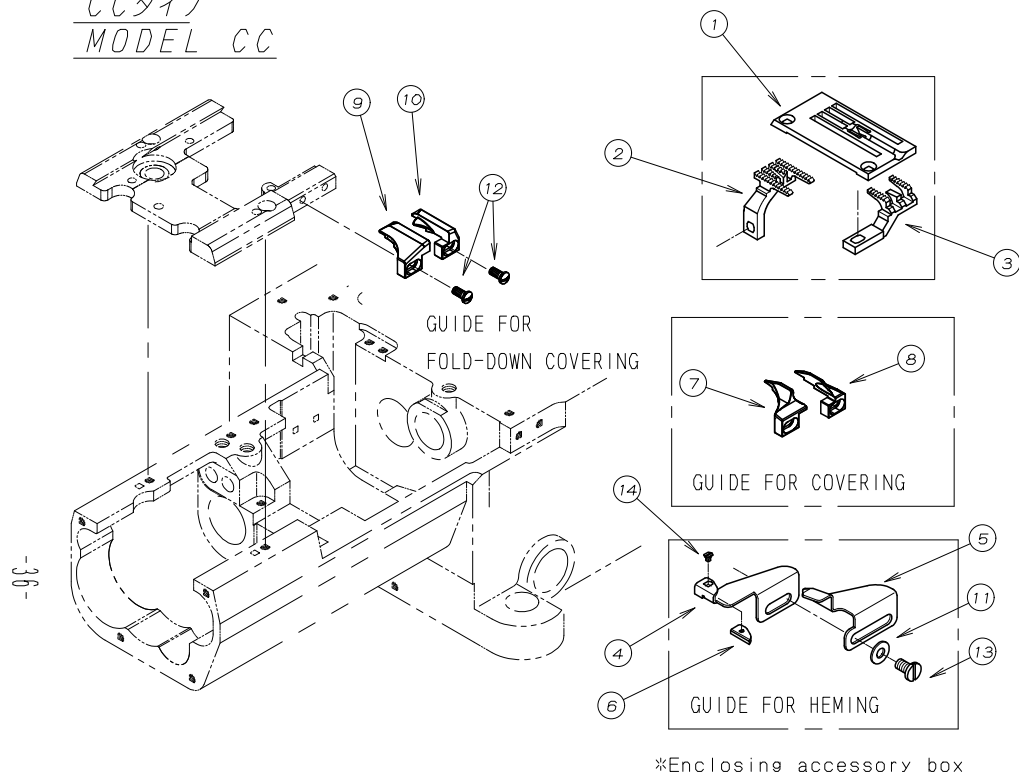
30. 糸立て及びアクセサリー関係 THREAD STAND AND ACCESSORIES



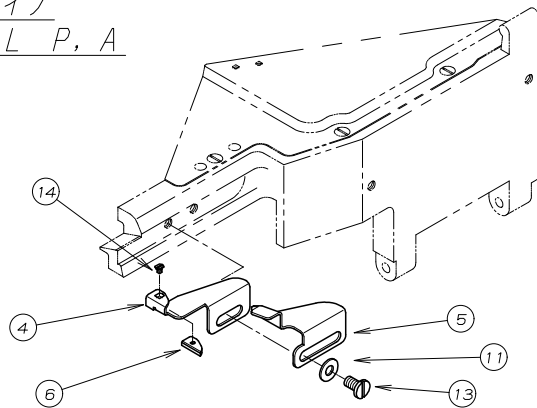
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
30-01	00-6118	膝スイッチセット	KNEE SWITCH ASS'Y	1
30-02	87-104	ネジ	SCREW	5
30-03	00-8014	吸込み用ハ ^ル フ ^セ ット	TREADLE AIR SWITCH ASSEMBLY	1
30-04	00-8018	集塵袋セット	FABRIC BAG ASSEMBLY	1
30-05	05-212	フィルタレギ ^ユ レータ	REGULATOR	1
30-06	05-215	両口チ-ズ ^ユ ニオン	JOINT	1
30-07	05-217	ハ-フユニオン	JOINT	1
30-08	05-221	スピ-ード ^コ ントローラー	SPEED CONTROLLER	2
30-09	05-224	異径ストレ-ト	JOINT	1
30-10	05-482	ユニオンワイ	JOINT	1
30-11	06-516	カフ ^ラ メス	CONNECTOR	1
30-12	06-517	カフ ^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 ^コ	OIL FUNNEL	1
30-19	28-920	チェーン	CHAIN	1
30-20	28-318	精密マイナスト ^{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	ドライバー (大)	DRIVER (LARGE)	1
30-29	28-314	六角レンチ 5mm	ALLEN KEY (5mm)	1
30-30	28-317	グリップ付六角レンチ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	05-2120-A	フィルタ ^レ ギュレータ	REGULATOR	1
30-35	05-2120-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	00-8036	糸払い装置 (エア-)	WIPER MECHANISM ASS'Y (AIR)	1
30-40	00-8037	糸払い装置 (エア-)	WIPER MECHANISM ASS'Y (AIR)	1
30-41	28-610	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

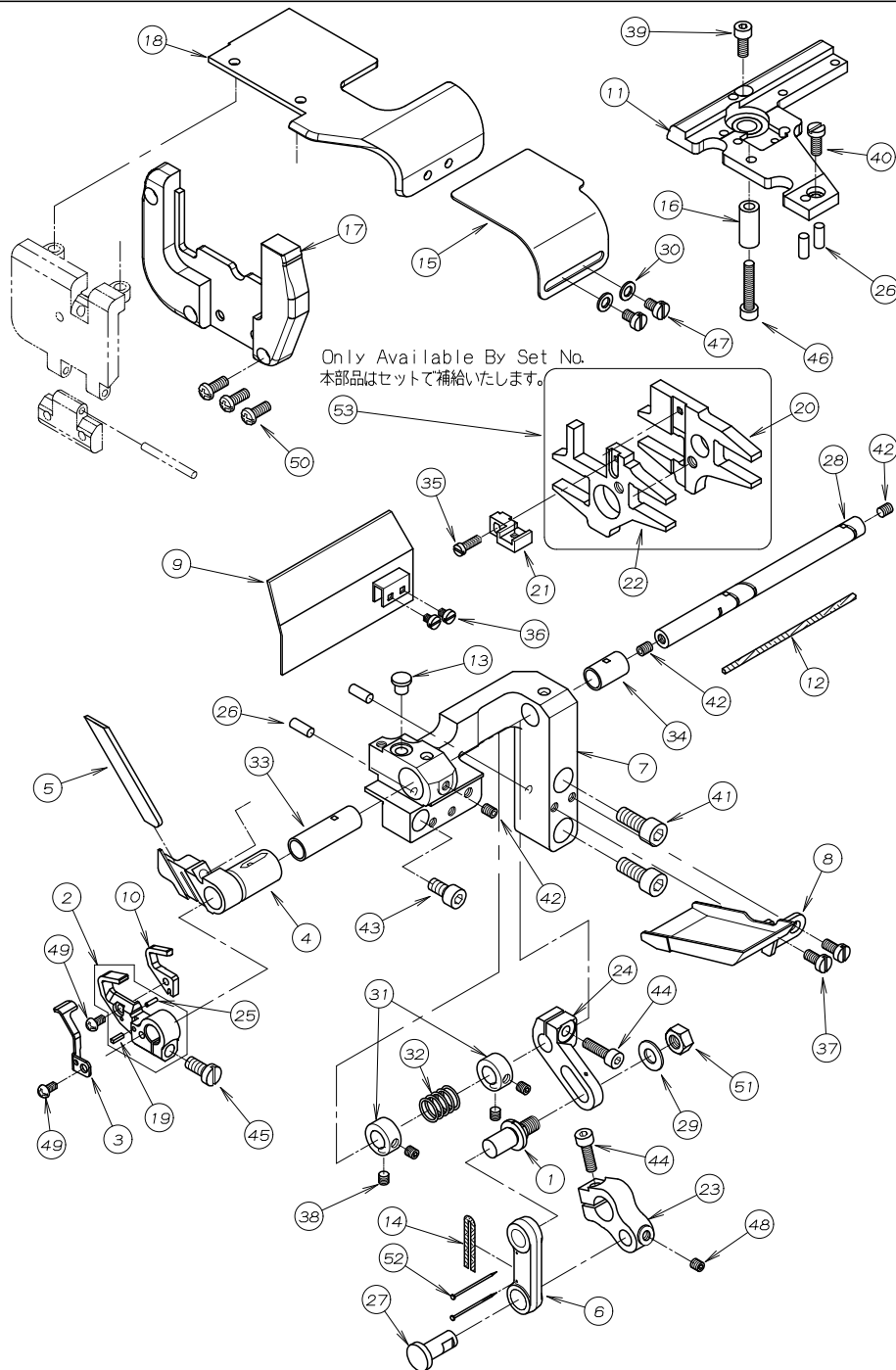
FABRIC GUIDE FOR MODEL CC, P, A

CCタイプ
MODEL CC

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	75-455	ワッシャ	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

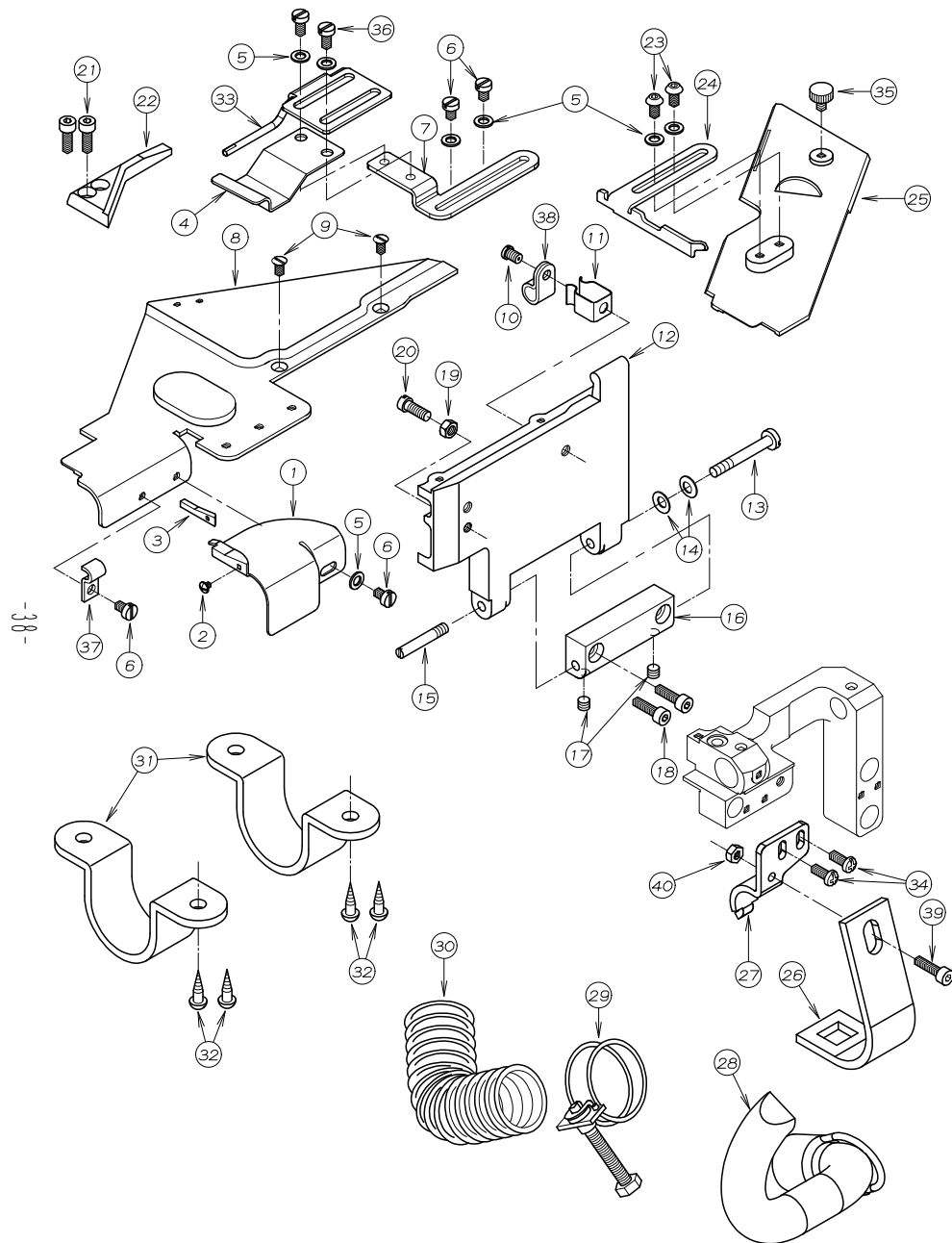
P, Aタイプ
MODEL P, A

32. 左メス機構 LEFT KNIFE FABRIC TRIMMER (MODEL ALK, PLK)



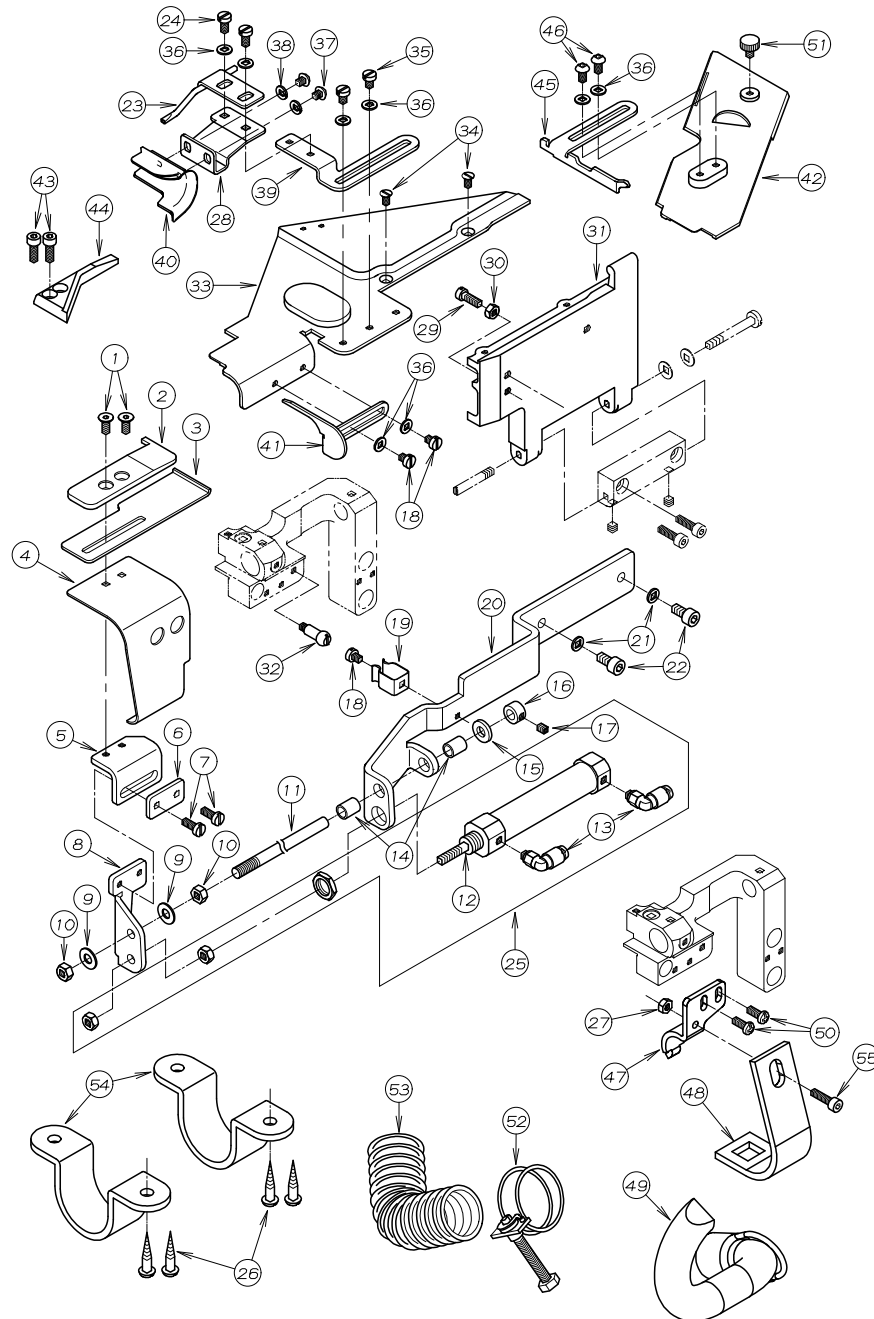
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
32-01	04-502	調節レバーピン	PIN	1
32-02	07-012	上メス土台	BRACKET	1
32-03	07-013	可動メスカット	COVER	1
32-04	07-557	下メスブラケット	BRACKET	1
32-05	07-558	下メス	LOWER KNIFE	1
32-06	07-561	上メス駆動リンク	LINK	1
32-07	07-562W	下メス土台	LOWER KNIFE BRACKET	1
32-08	07-563	油受け	OIL COVER	1
32-09	07-564	油カバー	OIL DEFENSE	1
32-10	07-642	上メス	KNIFE	1
32-11	14-171	針板土台	NEEDLE SUPPORT BRACKET	1
32-12	23-124	フェルト	FELT	1
32-13	23-425	クッションゴム	RUBBER	1
32-14	23-540	フェルト	FELT	1
32-15	26-564	補助カバー	COVER	1
32-16	27-217	カバーストップカラー	COLLAR	1
32-17	27-253W	横カバーヒンジ土台	HINGE	1
32-18	27-254	クロスプレート	COVER	1
32-19	32-281	スプリングピン	SPRING PIN	1
32-20	51-827	主送り台	MAIN FEED BAR	1
32-21	51-849	取付ブラケット	BRACKET	1
32-22	51-850	差動送り台	DIFFERENTIAL FEED BAR	1
32-23	67-527	上メス駆動レバー	UPPER KNAIFE DRIVING LEVER	1
32-24	67-531	メス調節レバー	LEVER	1
32-25	71-225	平行ピン	PIN	1
32-26	71-253	ロックピン	PIN	4
32-27	71-724	リンクピン	LINK PIN	1
32-28	71-755	メスシャフト	SHAFT	1
32-29	75-452	ワッシャー	WASHER	1
32-30	75-468	ワッシャー	WASHER	2
32-31	75-561	カラー	COLLAR	2
32-32	79-568	上メススプリング	SPRING	1
32-33	81-537	ブッシュ	BUSHING	1
32-34	81-558	ブッシュ	BUSHING	1
32-35	84-158	ネジ	SCREW	1
32-36	87-095	ネジ	SCREW	2
32-37	87-096	ネジ	SCREW	2
32-38	87-106	ネジ	SCREW	4
32-39	87-113	六角穴付きボルト	BOLT	1
32-40	87-145	ネジ	SCREW	1
32-41	87-171	六角穴付きボルト	BOLT	2
32-42	87-181	ネジ	SCREW	3
32-43	87-213	六角穴付きボルト	BOLT	1
32-44	87-214	六角穴付きボルト	BOLT	2
32-45	87-278	ネジ	SCREW	1
32-46	87-283	六角穴付きボルト	BOLT	1
32-47	87-284	ネジ	SCREW	2
32-48	87-286	ネジ	SCREW	1
32-49	87-477	プラマイナベ小ねじ	SCREW	2
32-50	87-483	プラマイナベ小ねじ	SCREW	3
32-51	88-166	ナット	NUT	1
32-52	93-625	フェルトピン	PIN	2
32-53	50-8270	送り台セット	FEED BAR ASS'Y	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 (左)	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	裾定規 (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	裾定規 (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	ヒンジ ネジ	SCREW	1
33-14	79-922	皿バネ	FLAT SPRING	2
33-15	25-527	ヒンジ ネジ	SCREW	1
33-16	25-516W	ヒンジ	HINGE	1
33-17	87-274	ネジ	SCREW	2
33-18	87-214	ネジ	SCREW	2
33-19	86-311	ナット	NUT	1
33-20	84-635	ネジ	SCREW	1
33-21	87-129	ネジ	SCREW	2
33-22	21-737W	差板補助カバー	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	差板	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	カーン防止パイプ	PIPE	1
33-34	87-483	プラマイナベネジ	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	ナイロンクリップ	CLAMP	1
33-39	87-299	六角穴付きボルト	BOLT	1
33-40	88-146	ナット	NUT	1

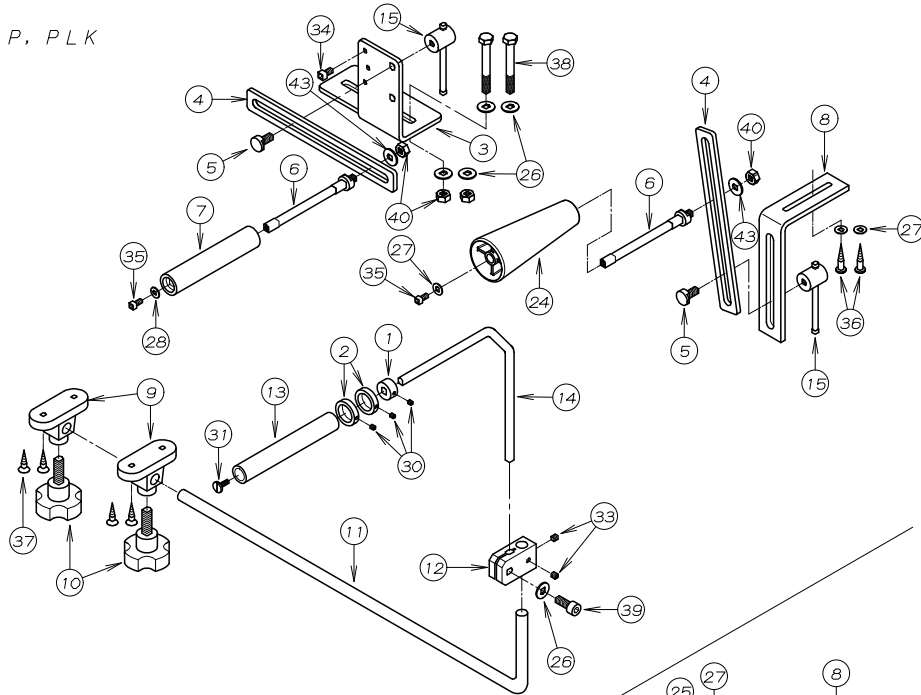
34. PLK専用部品 MODEL PLK EXCLUSIVE PARTS



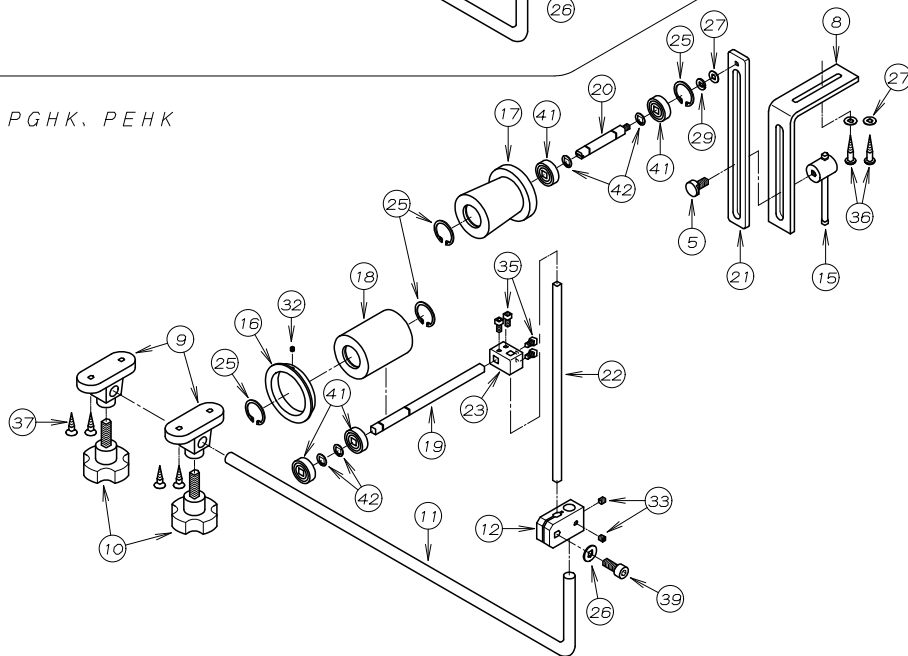
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
34-01	87-270	皿ネジ	SCREW	2
34-02	09-533	ゴ ム ガ イ ド (上)	GUIDE (UPPER)	1
34-03	09-534	ゴ ム ガ イ ド (下)	GUIDE (LOWER)	1
34-04	09-537	カバ ー	COVER	1
34-05	09-538	スライド プ ラケ ッ ト	BRACKET	1
34-06	09-539	止め金具	PLATE	1
34-07	87-145	ネジ	SCREW	2
34-08	09-541	スライド プ ラケ ッ ト	BRACKET	1
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 ー	AIR CYLINDER	1
34-13	05-202	エルボ ユニオン	JOINT	2
34-14	09-504	ブ ッ シ ュ	BUSHING	2
34-15	09-506	クッションゴ ム	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 ー 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	カール防止パイプ	PIPE	1
34-24	87-096	ネジ	SCREW	2
34-25	00-6068	ゴム案内用シリンダーセット	SYLINDER ASS' Y	1
34-26	87-905	ネジ	SCREW	4
34-27	88-146	ナット	NUT	1
34-28	26-569	布ガ イ ド (右) 取付台	BRACKET (RIGHT)	1
34-29	84-635	ネジ	SCREW	1
34-30	86-311	ナット	NUT	1
34-31	21-743W	定規台	FRONT COVER	1
34-32	25-522	カバーストップ ネジ	STOP PIN	1
34-33	21-752W	定規板	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	バネ座金	SPRING WASHER	2
34-39	26-566	裾定規 (右) 取付台	BRACKET (RIGHT)	1
34-40	09-543	右身頃ガ イ ド	FABRIC GUIDE	1
34-41	09-544	布ガ イ ド (左)	GUIDE (LEFT)	1
34-42	21-767	差板	SLIDE COVER	1
34-43	87-129	ネジ	SCREW	2
34-44	21-737W	差板補助カバー	COVER	1
34-45	26-570	布ガ イ ド (右)	FABRIC GUIDE (RIGHT)	1
34-46	87-272	ネジ	SCREW	2
34-47	07-009	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	プラスイナメルねじ	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



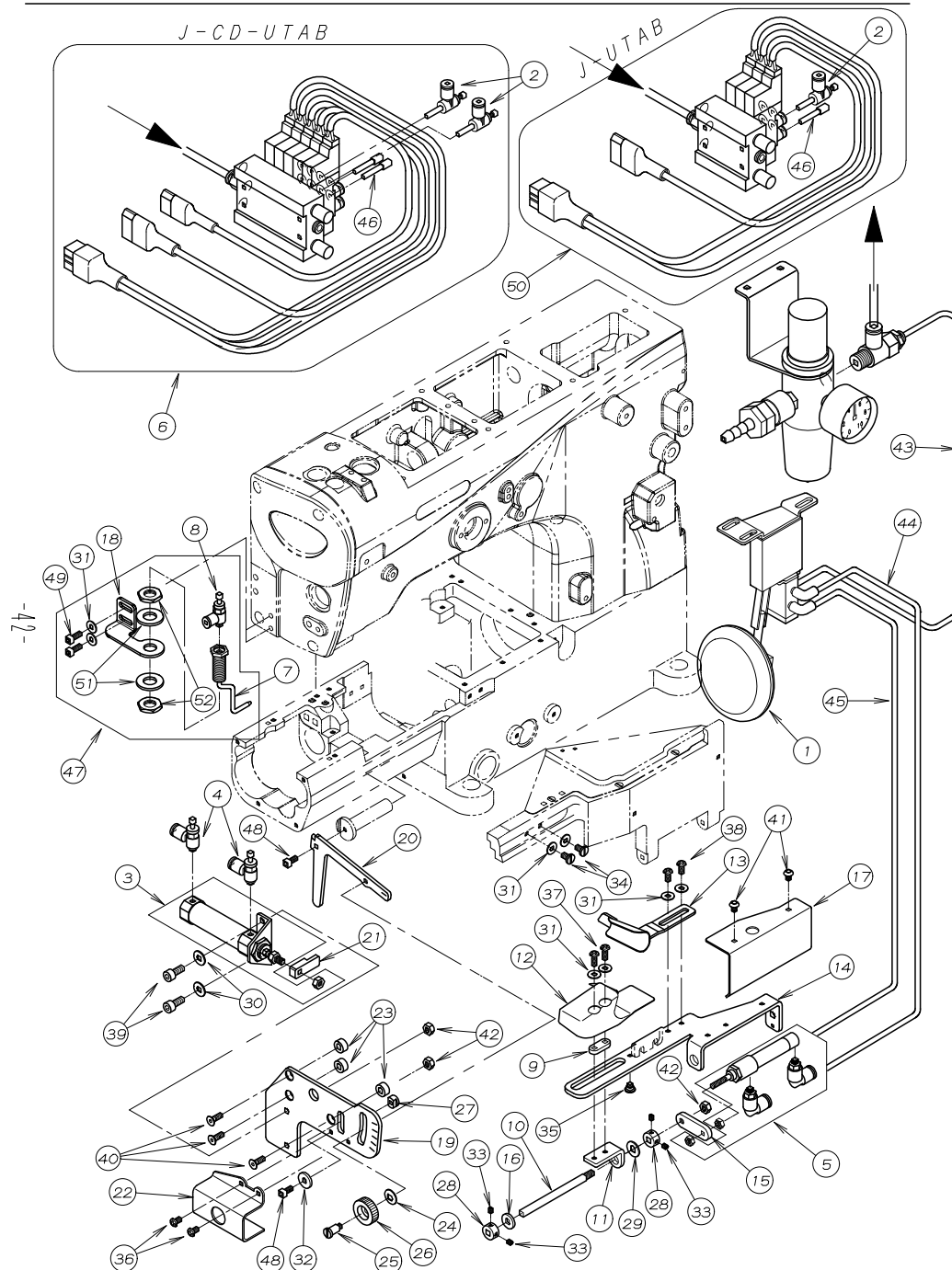
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
35-01	09-145	カラー	COLLAR	1
35-02	09-147	カラー	COLLAR	2
35-03	09-519	リアローラーフ ラケット	REAR ROLLER BRACKET	1
35-04	09-521	リアローラーズライド	SLIDE PLATE	2
35-05	09-522	リアローラー止めネジ	SCREW	1-2
35-06	09-523	リアローラー調整軸	SHAFT	2
35-07	09-524	リアローラー	REAR ROLLER	1
35-08	09-525	テンションフ ラケット	BRACKET	1
35-09	09-526	ローラーフ ラケット	BRACKET	2
35-10	09-527	ノブ	KNOB	2
35-11	09-528	ローラーフ ラケット ハー	BAR	1
35-12	09-529	ローラー軸継手	JOINT BLOCK	1
35-13	09-530	前ローラー	ROLLER	1
35-14	09-531	ローラーフ ラケットハー	BAR	1
35-15	09-553	ハンドル	HANDLE	1-2
35-16	09-603	ゴムスラストカラー	FRONT ROLLER GUIDE	1
35-17	09-614	下ローラー	TAPER ROLLER	1
35-18	09-615	前ローラー	FRONT ROLLER	1
35-19	09-616	前ローラーシャフト	FRONT ROLLER SHAFT	1
35-20	09-617	下ローラー軸	ROLLER SHAFT	1
35-21	09-618	下ローラーズライド	SLIDE PLATE	1
35-22	09-619	前ローラー縦シャフト	SHAFT	1
35-23	09-620	ローラー軸継手	JOINT BRACKET	1
35-24	09-727	テーパローラー	TAPER ROLLER	1
35-25	93-238	穴用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	スプリング 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	皿木ネジ	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	ボールベアリング	BALL BEARING	4
35-42	93-228	軸用丸S形止め輪	SNAP RING	4
35-43	75-501	ワッシャ	WASHER	2

This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or motor component. The parts are numbered 1 through 50. The diagram shows the following components and their assembly sequence:

- Base and Housing (1, 2, 3, 4, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50):** The main housing (1) and base (2) are shown with various mounting points. The base (2) is secured with screws (43, 44). The housing (1) is secured with screws (45, 46, 47, 48, 49, 50). The base (2) is secured with screws (43, 44). The housing (1) is secured with screws (45, 46, 47, 48, 49, 50).
- Internal Components (5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50):** The internal components include a shaft (27) with a pulley (28) and a bearing (29). The shaft (27) is secured with a nut (40) and a lock washer (41). The pulley (28) is secured with a screw (45). The bearing (29) is secured with a screw (46). The shaft (27) is secured with a nut (40) and a lock washer (41). The pulley (28) is secured with a screw (45). The bearing (29) is secured with a screw (46).
- Assembly Sequence:** The diagram shows the assembly sequence from the base (2) and housing (1) to the internal components (5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50).

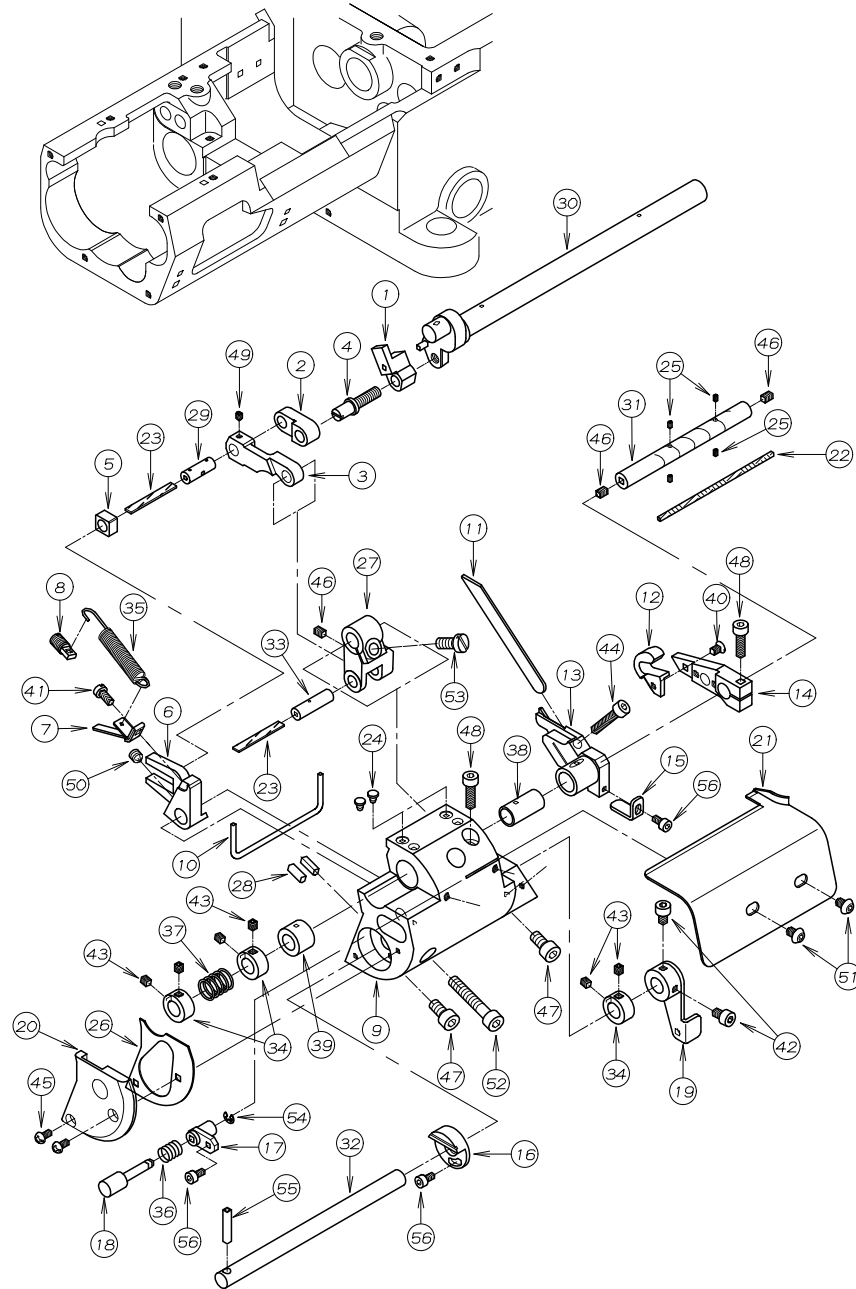
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
36-01	09-015	スライド 金具	BRACKET	1
36-02	09-016	ホルダ ー案内棒 (B)	GUIDE BAR (B)	1
36-03	09-017	ホルダ ー案内金具	CAM	1
36-04	09-018	ホルダ ー取付台	BRACKET	1
36-05	09-019	ホルダ ー連結フ° レート	PLATE	1
36-06	09-020	ホルダ ー案内棒 (A)	GUIDE BAR (A)	1
36-07	09-021	ホルダ ー取付フ° ラケット	BRACKET	1
36-08	09-022	ホルダ ー (左)	GUIDE (LEFT)	1
36-09	09-023	ホルダ ー (右)	GUIDE (RIGHT)	1
36-10	09-159	フ° ツシュ金具	BRACKET	1
36-11	14-169	針板土台	NEEDLE SUPPORT BRACKET	1
36-12	18-010	針受レハ ー	LEVER	1
36-13	21-232	カハ ー	COVER	1
36-14	87-409	ネジ	SCREW	1
36-15	21-244	差板補助カハ ー	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 ーストップ° ネジ°	SCREW	1
36-19	51-001	送り台	FEED BAR	1
36-20	51-883	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	差動送り軸	FEED SHAFT	1
36-26	71-025	送り上下軸	FEED LIFT SHAFT	1
36-27	71-039	下軸	LOWER SHAFT	1
36-28	75-013	平座金	WASHER	1
36-29	75-090	ストップ° カラー	COLLAR	1
36-30	09-506	ワッシャ	WASHER	1
36-31	75-452	ワッシャ	WASHER	1
36-32	75-455	ワッシャ	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



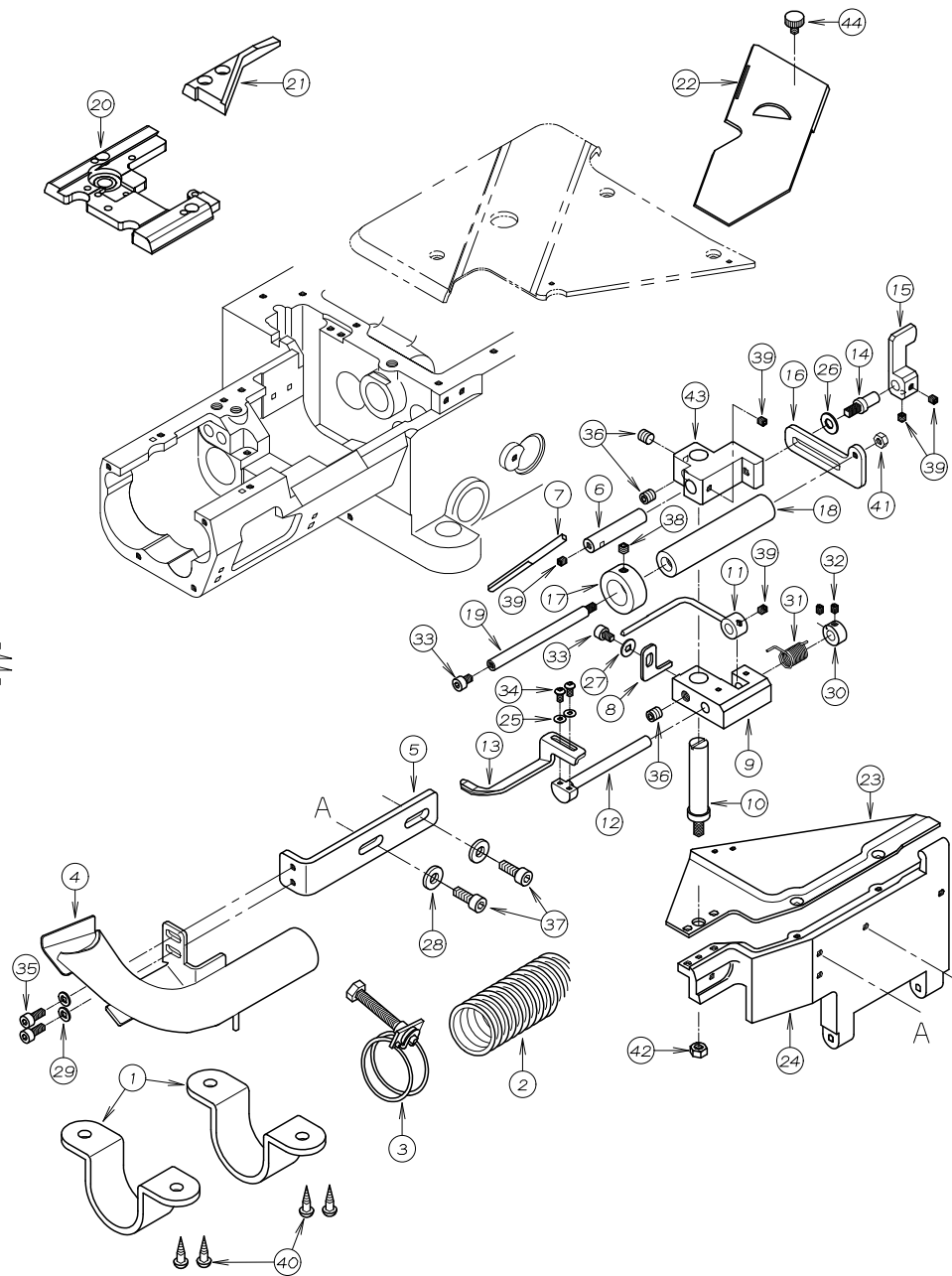
REF. NO.	PART NO.	品 名	DESCRIPTION	Q'TY
37-01	00-6118	膝スイッチセット	KNEE SWITCH ASS'Y	1
37-02	05-221	スピードコントローラー	SPEED CONTROLLER	2
37-03	05-222	エアシリンダー	CYLINDER	1
37-04	05-481	スピードコントローラー	SPEED CONTROLLER	2
37-05	05-559	エアシリンダー	AIR CYLINDER	1
37-06	05-969	電磁弁5連セット	SOLENOID VALVE ASSEMBLY	1
37-07	06-282	エアノズル	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	スライト金具	BRACKET	1
37-10	09-020	ホルダー案内棒 (A)	GUIDE BAR	1
37-11	09-021	ホルダー取付ブラケット	BRACKET	1
37-12	09-022	ホルダー (左)	GUIDE (LEFT)	1
37-13	09-023	ホルダー (右)	GUIDE (RIGHT)	1
37-14	09-024	ホルダー取付台	BRACKET	1
37-15	09-025	ホルダー連結プレート	PLATE	1
37-16	09-506	ワッシャー	WASHER	1
37-17	21-232	カバー	COVER	1
37-18	27-369	エアブローブラケット	BRACKET	1
37-19	51-141	目盛板	FEED GRADUATIONS	1
37-20	51-142	コンデンスレバー	CONDENSE LEVER	1
37-21	51-143	シリンダー先端金具	BLOCK	1
37-22	51-144	安全カバー	COVER	1
37-23	51-805	スネースカラー	COLLAR	3
37-24	51-806	皿バネ	SPRING	1
37-25	51-807	段ネジ	SCREW	1
37-26	51-808	ナット	NUT	1
37-27	51-846	ストッパ	STOPPER	1
37-28	75-105	カラー	COLLAR	2
37-29	75-452	ワッシャー	WASHER	1
37-30	75-453	ワッシャー	WASHER	2
37-31	75-455	ワッシャー	WASHER	8
37-32	75-456	ワッシャー	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	糸払い装置 (エア)	WIPER 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	ワッシャー	WASHER	2
37-52	86-801	ナット	NUT	2

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



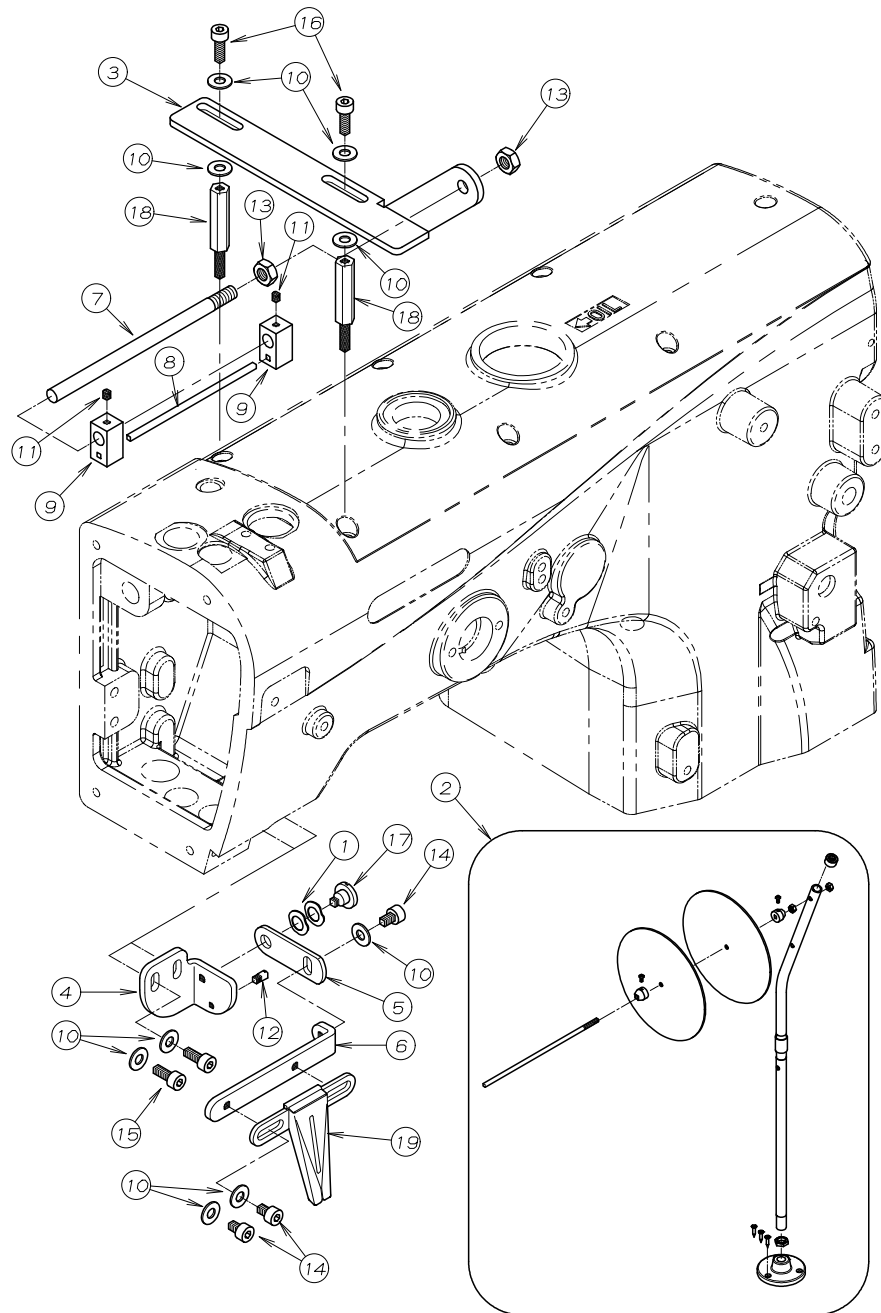
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
38-01	07-586	フ ロック	BLOCK	1
38-02	07-587	連結リンク	LINK	1
38-03	07-588	連結リンク	LINK	1
38-04	07-589	駆動ピン	PIN	1
38-05	07-590	角コ マ	BLOCK	1
38-06	07-591	上メス調整レハ ー	LEVER	1
38-07	07-592	スフ リンク ホルタ ー	SPRING HOLDER	1
38-08	07-593	スフ リンク 止めネジ	LOCK SCREW	1
38-09	07-594W	右メス土台	BRACKET	1
38-10	07-595	Oリング	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	下メス台カ イト	GUIDE PLATE	1
38-16	07-612	調節レハ ー用ストッパ ー	STOPPER	1
38-17	07-613	フ シュホ タン用ホルタ ー	HOLDER	1
38-18	07-614	フ ッシュホ タン	PUSH BOTTON	1
38-19	07-615	ト ロッフ レハ ー	LEVER	1
38-20	07-616W	横カハ ー	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 ム	CUSHION RUBBER	2
38-25	23-554	フェルト	FELT	4
38-26	23-566	横カハ ーハ ッキン	GASKET	1
38-27	67-536	メス駆動レハ ー	LEVER	1
38-28	71-253	ノックピン	PIN	2
38-29	71-596	上メスロッド 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 ロッフ レハ ー軸	SHAFT	1
38-33	71-660	上メスリンクピン	LINK PIN	1
38-34	75-561	カラー	COLLAR	3
38-35	79-558	スフ リンク	SPRING	1
38-36	79-559	フ ッシュホ 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 ッシュ	BUSHING	1
38-39	81-577	メス軸フ ッシュ	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	スフ 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)



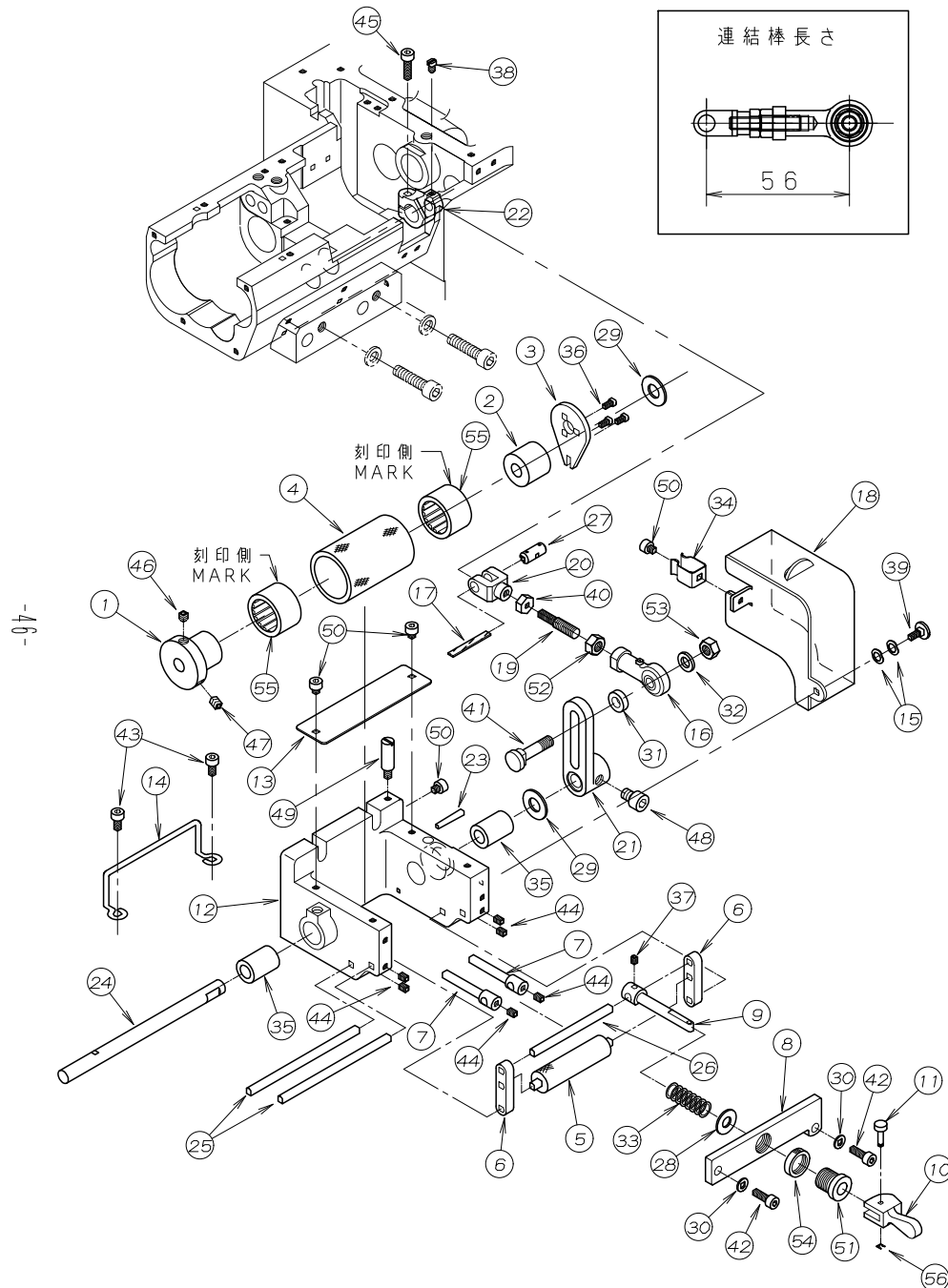
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
39-01	07-542	ホースクランプ°	CLAMP	2
39-02	07-572	ホース	HOSE	1
39-03	07-573	ホースバンド°	BAND	1
39-04	07-574	吸込パイプ°	PIPE	1
39-05	07-575	吸込パイプ° 取付プレート	PLATE	1
39-06	07-577	ゴムガイド° 取付棒	ELASTIC TAPE GUIDE BAR	1
39-07	07-578	ゴムガイド°	ELASTIC GUIDE	1
39-08	07-579	ガイド棒用ストッパ°	STOPPER	1
39-09	07-580	ガイド棒取付台	BRACKET	1
39-10	07-581	支柱ネジ°	SCREW	1
39-11	07-582	ガイド棒	GUIDE BAR	1
39-12	07-619	布押え取付棒	SHAFT	1
39-13	07-620	布押え	FABRIC GUIDE	1
39-14	09-607	レバー° 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° ラケット	BRACKET	1
39-17	09-611	ガイド° カラー°	COLLAR	1
39-18	09-612	前ローラー°	FRONT ROLLER	1
39-19	09-613	上ローラー° 軸°	UPPER ROLLER SHAFT	1
39-20	14-170	針板土台	NEEDLE SUPPORT BRACKET	1
39-21	21-799W	差板補助カバー°	COVER	1
39-22	27-026	差板	SLIDE COVER	1
39-23	27-027W	定規板	FRONT COVER	1
39-24	27-028W	定規台	FRONT COVER	1
39-25	75-441	ワッシャー	WASHER	2
39-26	75-453	ワッシャー	WASHER	1
39-27	75-455	ワッシャー	WASHER	1
39-28	75-458	ワッシャー	WASHER	2
39-29	75-468	ワッシャー	WASHER	2
39-30	75-556	カラー°	COLLAR	1
39-31	79-071	巻バネ°	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	ゴムガイド° 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	段ネジ°	SCREW	1
40-18	87-309	支柱ネジ°	SCREW	2
40-19	97-5010-1	ハ° インタ° -セット (9mm)	FOLDER ASS' Y	1

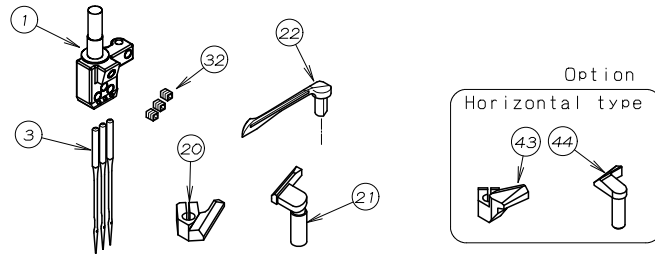
41. MD機構 METERING DEVICE MECHANISM



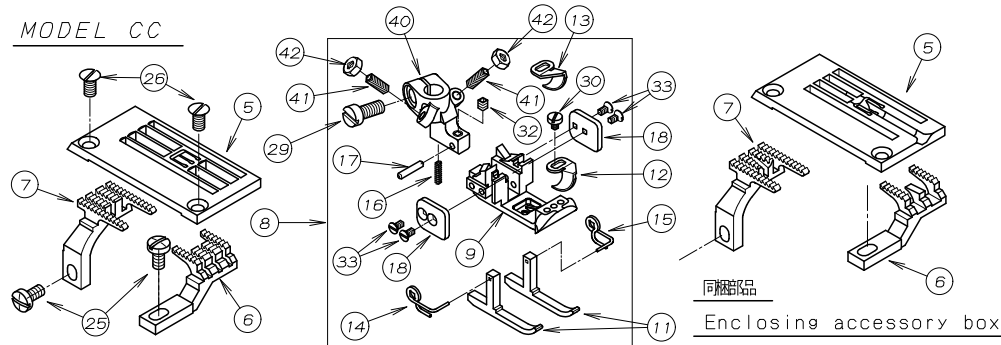
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
41-01	01-102	フタ側スリーブ*	SLEEVE	1
41-02	01-103	連結板側スリーブ*	SLEEVE	1
41-03	01-116	前フーラー回り止め蓋	PLATE	1
41-04	01-132	前プーラーローレット	PULLER	1
41-05	01-134	前フーラー小ローラー	LOWER ROLLER	1
41-06	01-136	前フーラー小ローラー取り付け金具	ROLLER HOLDER	2
41-07	01-138	前フーラーコム案内金具	PIVOT SHAFT HOLDER	2
41-08	01-141	前フーラー締め金具	RUBBER TIGHTENER	1
41-09	01-143	小ローラー締め金具	ROLLER CONTROLER	1
41-10	01-145	ワンタッチレハ*	LEVER	1
41-11	01-147	レハ*連結ピン	PIN	1
41-12	01-153	前プーラー土台	BRACKET	1
41-13	01-154	前プーラーカバー	COVER	1
41-14	01-155	前プーラー台取付ガイド	GUIDE	1
41-15	02-118	波ワッシャ	WASHER	2
41-16	05-954	ロッド*エント*	ROD	1
41-17	23-341	フェルト	FELT	1
41-18	27-168	前プーラー連結レバ*カバー	COVER	1
41-19	65-337	前プーラー連結棒	CONNECTING BAR	1
41-20	66-131	連結片メカ*ネ	CONNECTING LINK	1
41-21	67-419	前プーラー連結レバ*	LEVER	1
41-22	67-533	連結レバ*	LEVER	1
41-23	71-227	テ*ハ*ピン	PIN	1
41-24	71-350	前フーラー土台シャフト	SHAFT	1
41-25	71-361	案内棒大	PIVOT SHAFT (LARGE)	2
41-26	71-362	案内棒小	PIVOT SHAFT (SMALL)	1
41-27	71-432	メカ*ネピン	FEED ROCKER LINK PIN	1
41-28	75-446	ワッシャ	WASHER	1
41-29	75-451	ワッシャ	WASHER	2
41-30	75-468	ワッシャ	WASHER	2
41-31	75-480	ワッシャ	WASHER	1
41-32	75-552	ワッシャ	WASHER	1
41-33	79-171	圧縮ハ*ネ	SPRING	1
41-34	79-912	ハ*ネ	SPRING	1
41-35	81-125	ブッシュ	BUSHING	2
41-36	84-162	ネジ*	SCREW	3
41-37	84-314	ネジ*	SCREW	1
41-38	84-365	ネジ*	SCREW	1
41-39	84-396	段ネジ*	SCREW	1
41-40	86-701	ナット	NUT	1
41-41	87-006	ロッドエント*止ネジ*	SCREW	1
41-42	87-129	六角穴付きボルト	BOLT	2
41-43	87-177	六角穴付きボルト	BOLT	2
41-44	87-181	ネジ*	SCREW	6
41-45	87-214	六角穴付きボルト	BOLT	1
41-46	87-253	ネジ*	SCREW	1
41-47	87-254	ネジ*	SCREW	1
41-48	87-255	六角穴付きボルト	BOLT	1
41-49	87-268	カハ*ストップ*ネジ*	SCREW	1
41-50	87-287	六角穴付きボルト	BOLT	4
41-51	87-456	調節ネジ*	SCREW	1
41-52	88-161	ナット	NUT	1
41-53	88-166	ナット	NUT	1
41-54	88-456	ナット	NUT	1
41-55	91-405	ワンウェイクラッチ	BEARING	2
41-56	93-200	ストップ*リンク*	E-RING	1

42. ゲージ関係 (1) GAUGE PARTS (1)

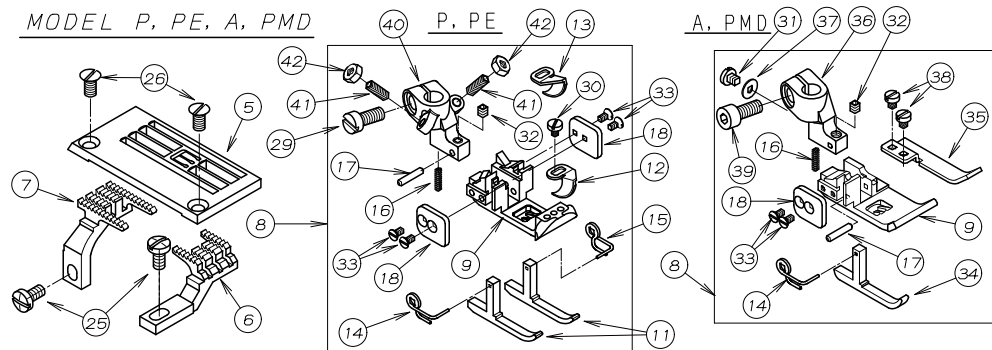
STANDARD



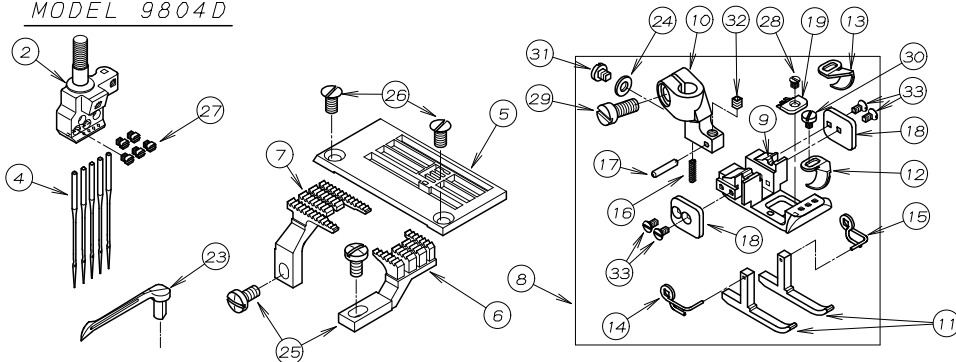
MODEL CC



MODEL P, PE, A, PMD



MODEL 9804D



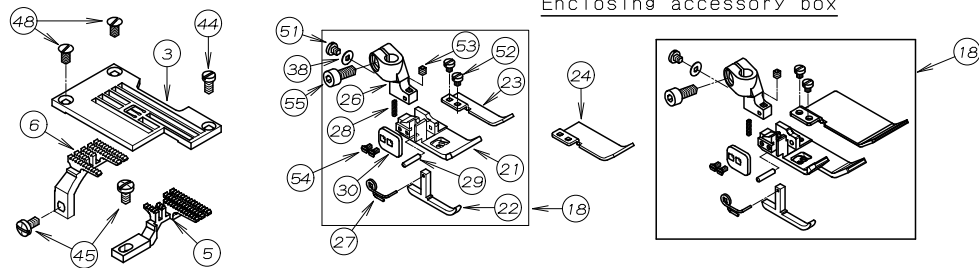
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
42-01	*	針株	NEEDLE HOLDER	1
42-02	*	針株	NEEDLE HOLDER	1
42-03	13-0110-6	針 (UYX128GAS #11)	NEEDLE	3
42-04	13-3020-5	針 (SM1014H #10S)	NEEDLE	5
42-05	*	針板	NEEDLE PLATE	1
42-06	*	前送歯	FRONT FEED DOG	1
42-07	*	後送歯	REAR FEED DOG	1
42-08	*	押えセット	PRESSER FOOT ASS'Y	1
42-09	*	押え足	BOTTOM	1
42-10	17-7680-A	押え足ホース	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	布押え (幅狭)	GUIDE PLATE (S)	1
42-36	17-8190-A	押え足ホース	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	押え足ホース	SHANK	1
42-41	87-071	ネジ	SCREW	2
42-42	88-136	ナット	NUT	2
42-43	18-831	針受け	NEEDLE GUARD	1
42-44	18-832	針カイト	NEEDLE GUIDE	1

* 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。

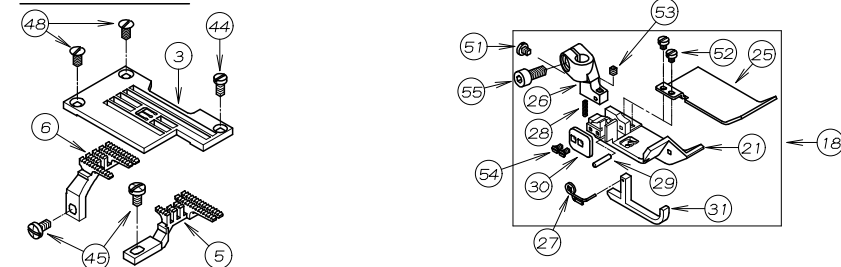
* Please refer to Page 52 GAUGE PARTS LIST

43. ゲージ関係 (2) GAUGE PARTS (2)

MODEL ALK



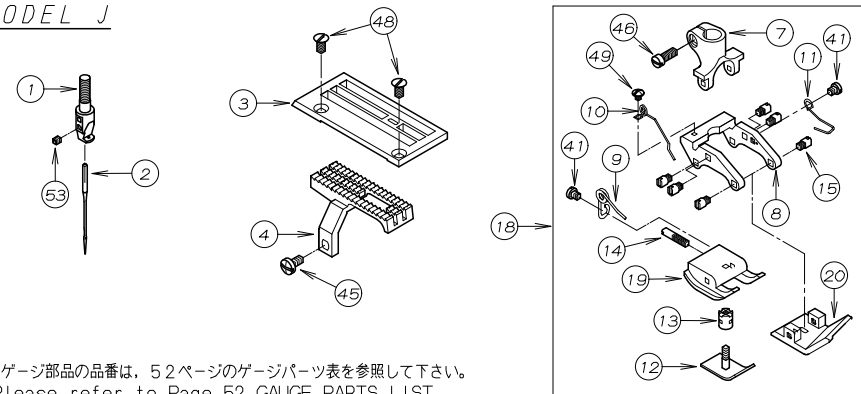
MODEL PLK



MODEL PEHK, PGHK



MODEL J

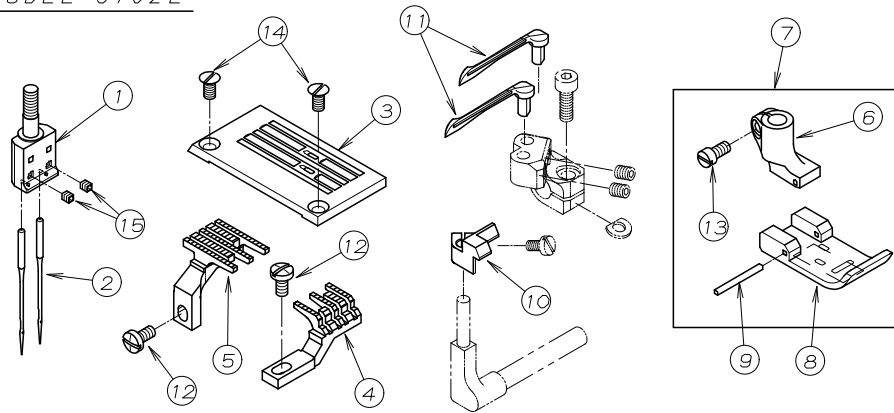


* 各ゲージ部品の品番は、52ページのゲージパーツ表を参照して下さい。
 * Please refer to Page 52 GAUGE PARTS LIST

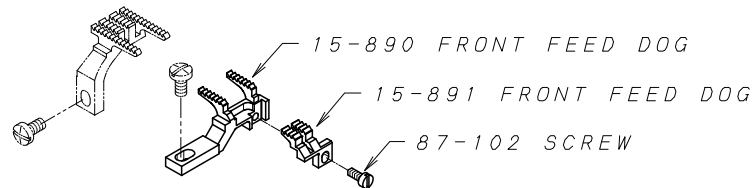
REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
43-01	*	針 株	NEEDLE HOLDER	1
43-02	13-1510-5	針 TVX5 #21	NEEDLE	1
43-03	*	針 板	NEEDLE PLATE	1
43-04	15-800	送 歯	FEED DOG	1
43-05	*	前送 歯	FRONT FEED DOG	1
43-06	*	後送 歯	REAR FEED DOG	1
43-07	17-5530-A	押えホ ス	SHANK	1
43-08	17-5530-C	押え足ホルダ ー	BOTTOM HOLDER	1
43-09	17-5530-D	押えカ イト 足ハ ネ	SPRING	1
43-10	17-5530-F	押え足後ハ ネ	SPRING	1
43-11	17-5530-G	押え足ハ ネ	SPRING	1
43-12	17-5530-H	押えカ イト 足	GUIDE	1
43-13	17-5530-I	押えカ イト 足調節ナット	NUT	1
43-14	17-5530-J	押え足固定ネジ	SCREW	1
43-15	17-5530-K	ネジ	SCREW	6
43-16	17-7760-D	ピ ン	PIN	1
43-17	17-7760-F	カ イト 足金具	GUIDE PIN	1
43-18	*	押えセット	PRESSER FOOT ASSEMBLY	1
43-19	17-8000-A	押え足 (後)	BOTTOM (REAR)	1
43-20	17-8000-B	押え足 (前)	BOTTOM (FRONT)	1
43-21	*	押え足	BOTTOM	1
43-22	17-8120-E	補助押え足	GUIDE	1
43-23	17-8120-F	布押え (幅狭)	GUIDE PLATE (S)	1
43-24	17-8120-G	布押え (幅広)	GUIDE PLATE (L)	1
43-25	17-8140-D	布押え (コ ム入れ用)	GUIDE PLATE	1
43-26	17-8190-A	押え足ホ ス	SHANK	1
43-27	17-8190-D	補助押え足ハ ネ (左)	SPRING (LEFT)	1
43-28	17-8190-F	ハ ネ	SPRING	1
43-29	17-8190-G	ピ ン	PIN	1
43-30	17-8190-J	カ イト フ 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 ス	SHANK	1
43-35	17-9290-B	押えカ イト 足	GUIDE	1
43-36	17-9290-C	コ ム当て定規	ELASTIC TAPE GUIDE	1
43-37	17-9290-D	カ イト 足ハ ネ	SPRING	1
43-38	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	段ネジ	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	1-2
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	*
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

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	押え足テーフ° 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	84-374	ネジ°	SCREW	2
44-13	84-382	ネジ°	SCREW	1
44-14	84-464	ネジ°	SCREW	2
44-15	87-104	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

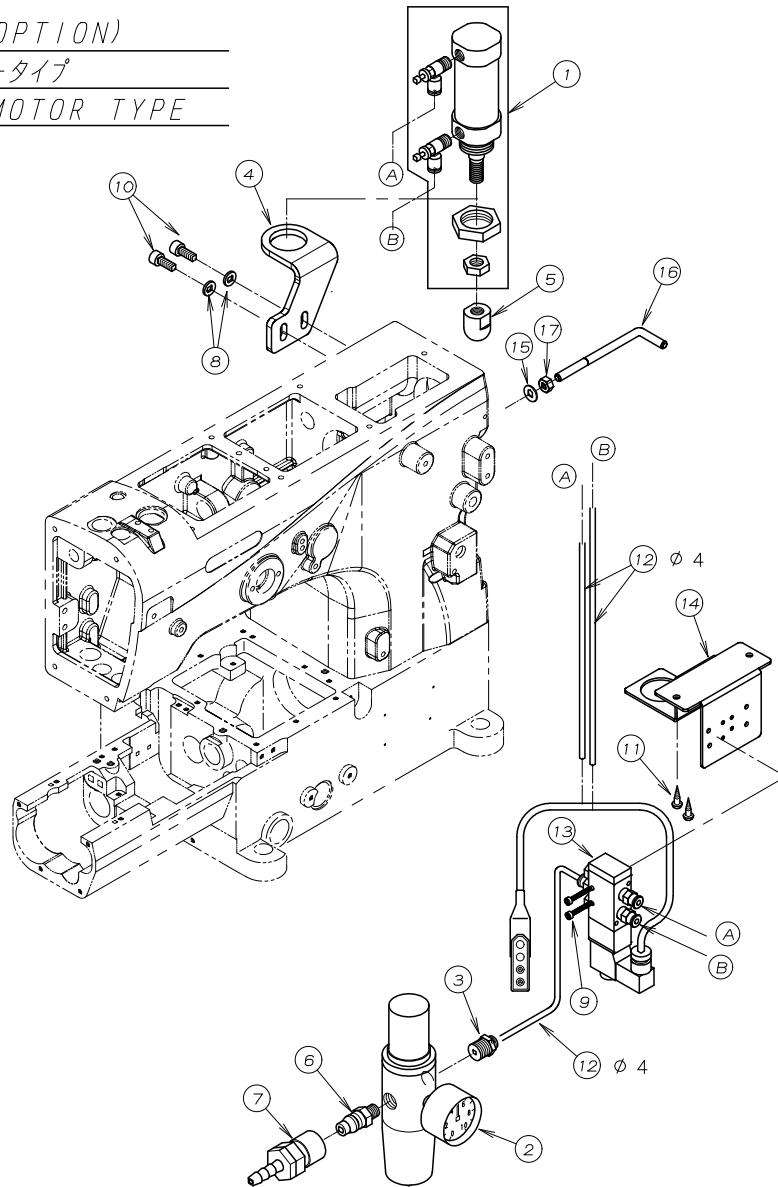
45. 押え揚げ装置 (エア式) FL-8

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	ポジションナバー	BAR	1
45-17	88-166	ナット	NUT	1

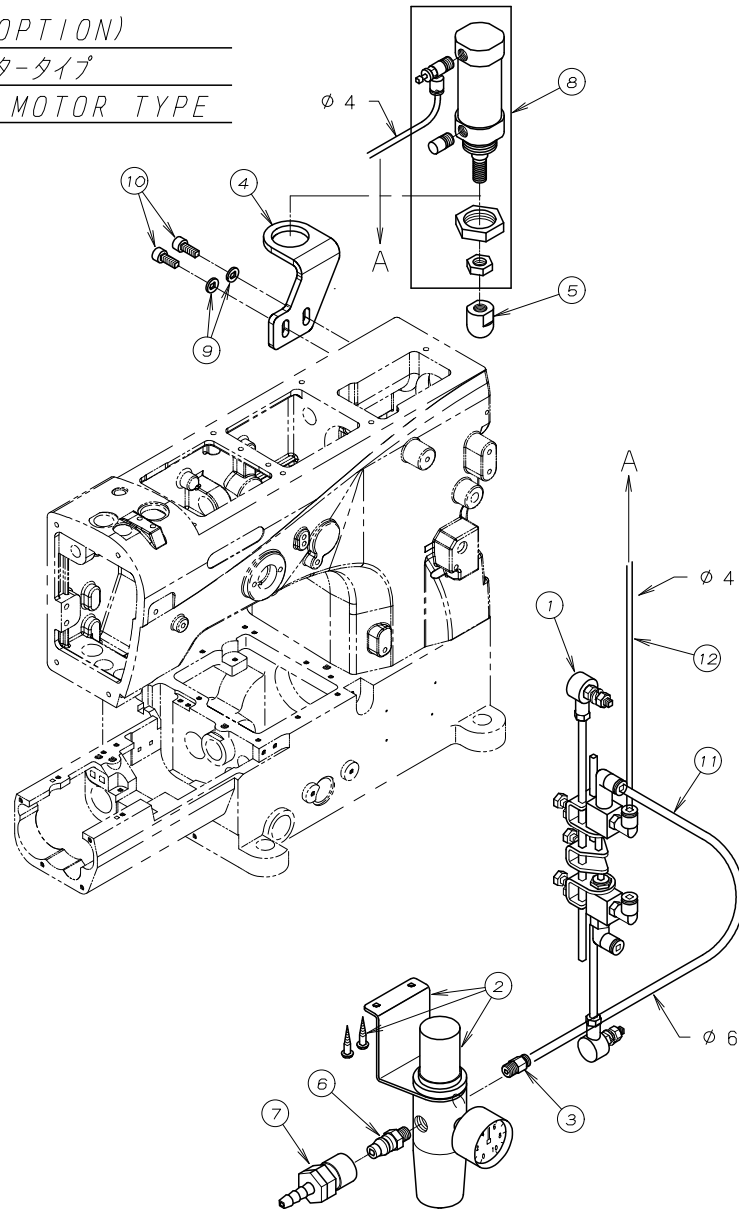
46. 押え揚げ装置 (エア式) FL-9

FOOT LIFTER MECHANISM (PNEUMATIC TYPE) FL-9

オプション (OPTION)

クラッチモータータイプ

CLUTCH MOTOR TYPE



REF. NO.	PART NO.	品 名	DESCRIPTION	Q' TY
46-01	00-8040	吸込み押え揚げ用バルブセット	TREADLE AIR SWITCH ASS'Y	1
46-02	05-212	フィルタレギュレータ	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	WASHER	2
46-10	87-171	六角穴付ボルト	SCREW	2
46-11	05-486	チューブφ6×1000mm	TUBE (φ6×1000mm)	1
46-12	05-932	チューブφ4×1500mm	TUBE (φ4×1500mm)	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 ★15-861	15-880 ★15-862	14-871 ★14-846	19-525	19-751 (None UT) 19-505 (UT)	18-805	18-806			
			1/4	12-0270-1	17-9390-1	15-881 ★15-861	15-880 ★15-862	14-880 ★14-847							
	A		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							
	P PE		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 ★17-9360-1	15-854	15-784	14-781							
			1/4	12-0270-1	17-8130-1 ★17-9370-1			14-782							
			PLK	7/32	12-0260-1		17-8150-1	15-853						14-812	
	1/4			12-0270-1	17-8160-1		14-813								
	PEHK PGHK		7/32	12-0260-1	17-9290-1	15-869	15-868	14-929							
			1/4	12-0270-1	17-9300-1			14-930							
	D		4	6mm	12-8480-1	17-7120-1	15-883	15-882						14-712	19-534
				6.4mm	12-8490-1	17-8430-1								14-849	
	J	1		12-8770-1	17-8000-1	15-800		14-800	19-580						
	PMD	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

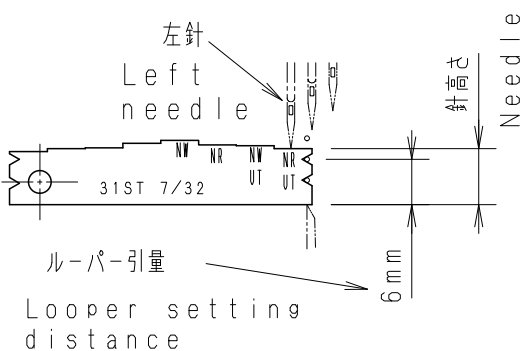
機種 MODEL	タイプ TYPE	針数 NEEDLE	ゲージ GAUGE	標準 Standard	ロングステッチ For long stitch	ショートステッチ For short stitch	かまぼこ防止用Uタイプ For soft stitch formation	かまぼこ防止用Kタイプ For soft stitch formation		
				針板 NEEDLE PLATE	針板 NEEDLE PLATE	針板 NEEDLE PLATE	針板 NEEDLE PLATE	針板 NEEDLE PLATE	ルーパー台 LOOPER HOLDER	ルーパー台 LOOPER HOLDER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

＊ 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	



左針
Left
needle

針高さ
Needle
height

ルーパー引量
Looper setting
distance

6mm

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REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番
18-02	00-2008	01-01	02-119	20-18	05-067	01-02	05-292	27-13	05-932	24-15	06-602	38-09	07-594W	34-08	09-541	42-13	17-7680-L	01-39	20-0008	32-13	23-425
18-01	00-3282	40-01	02-119	20-19	05-068	45-16	05-292	37-43	05-932	25-27	06-602	38-10	07-595	34-40	09-543	43-16	17-7760-D	30-13	20-0010	01-06	23-427
19-01	00-4280	18-07	02-123	26-22	05-202	21-19	05-294	46-12	05-932	24-16	06-603	38-11	07-596	34-41	09-544	43-17	17-7760-F	29-23	20-0040	01-07	23-501
19-02	00-4283	19-07	02-124	34-13	05-202	22-11	05-294	27-14	05-938	25-28	06-603	38-12	07-597	35-15	09-553	43-19	17-8000-A	40-02	20-6020	01-08	23-504
34-25	00-6068	18-08	02-136	21-03	05-205	14-01	05-404	37-44	05-938	24-17	06-604	38-13	07-599	35-16	09-603	43-20	17-8000-B	30-38	20-6200	15-03	23-506
27-02	00-6082	19-08	02-138	27-04	05-207	24-13	05-481	27-15	05-939	25-29	06-604	38-14	07-610	39-14	09-607	43-24	17-8120-E	29-08	21-025	15-04	23-508
45-01	00-6082	18-09	02-158	27-07	05-212	37-04	05-481	37-45	05-939	24-18	06-605	38-15	07-611	39-15	09-608	43-22	17-8120-E	29-09	21-026	29-02	23-509
21-39	00-6083	19-17	02-159	30-05	05-212	21-43	05-482	41-16	05-954	25-30	06-605	38-16	07-612	39-16	09-610	42-35	17-8120-F	29-01	21-027	02-16	23-510
21-16	00-6114	18-10	02-176	46-02	05-212	30-10	05-482	23-03	05-955	24-19	06-608	38-17	07-613	39-17	09-611	43-23	17-8120-F	36-13	21-232	10-03	23-511
22-30	00-6115	18-11	02-177	27-17	05-2120-A	21-42	05-484	23-04	05-956	25-31	06-608	38-18	07-614	39-18	09-612	43-24	17-8120-G	37-17	21-232	02-17	23-512
27-03	00-6118	18-12	02-178	30-34	05-2120-A	46-11	05-486	23-05	05-957	24-20	06-630	38-19	07-615	39-19	09-613	43-25	17-8140-D	36-15	21-244	02-18	23-512
30-01	00-6118	17-07	02-216	45-02	05-2120-A	26-25	05-493	14-03	05-958	25-32	06-630	38-20	07-616W	35-17	09-614	42-36	17-8190-A	02-04	21-610W	25-34	23-512
37-01	00-6118	17-12	02-217	27-18	05-2120-B	26-24	05-495	23-06	05-958	21-36	06-927	38-21	07-617	35-18	09-615	43-26	17-8190-A	29-19	21-629W	38-24	23-512
21-44	00-6121	17-22	02-219	30-35	05-2120-B	37-05	05-559	23-07	05-961	22-27	06-928	39-12	07-619	35-19	09-616	42-14	17-8190-D	15-01	21-632W	02-18	23-513
21-51	00-6123	17-33	02-220W	27-08	05-214	26-23	05-640	23-32	05-962	24-34	06-928	39-13	07-620	35-20	09-617	43-27	17-8190-D	07-09	23-515	33-33	26-573
46-08	00-6130	17-01	02-225W	30-06	05-215	45-14	05-644	23-33	05-963	25-33	06-928	32-10	07-642	35-21	09-618	42-15	17-8190-E	02-06	21-642W	02-19	23-528
21-50	00-6140	19-09	02-228	27-09	05-217	21-02	05-646	37-51	05-966	33-38	06-935	36-01	09-015	35-22	09-619	42-16	17-8190-F	02-07	21-643	08-47	23-531
30-03	00-8014	19-10	02-245	30-07	05-217	21-14	05-647	37-06	05-969	16-01	07-008	37-09	09-015	35-23	09-620	43-28	17-8190-F	02-08	21-644	08-51	23-535
30-04	00-8018	19-11	02-246	45-03	05-217	21-45	05-648	45-12	05-979	33-27	07-009	36-02	09-016	35-24	09-727	42-17	17-8190-G	02-09	21-646W	36-17	23-535
27-20	00-8028	19-12	02-247	27-10	05-218	20-20	05-658	45-13	05-982	34-47	07-009	36-03	09-017	19-18	09-917	43-29	17-8190-G	02-10	21-670	01-09	23-538
20-01	00-8031	18-13	02-250	46-03	05-218	20-22	05-794	11-01	06-238	33-26	07-010	36-04	09-018	19-19	09-919	42-18	17-8190-J	02-11	21-678W	32-14	23-540
26-26	00-8036	18-14	02-252W	21-11	05-220	20-23	05-799	06-01	06-239	34-48	07-010	36-05	09-019	19-20	09-923	43-30	17-8190-J	02-12	21-679	17-36	23-541
30-39	00-8036	19-13	02-252W	21-46	05-221	20-21	05-812	33-28	07-011	33-28	07-011	36-06	09-020	19-21	09-984	43-31	17-8220-B	18-21	21-715	17-34	23-542
37-47	00-8036	18-15	02-253	30-08	05-221	20-24	05-822	26-01	06-283	34-49	07-011	37-10	09-020	07-02	10-5010	43-32	17-8260-F	33-22	21-737W	06-03	23-547
26-27	00-8037	19-14	02-253	37-02	05-221	21-06	05-828	37-07	06-283	32-02	07-012	36-07	09-021	11-02	11-409	43-33	17-8260-G	34-44	21-737W	06-04	23-548
30-40	00-8037	18-16	02-254	37-03	05-222	22-05	05-828	22-02	06-336	32-03	07-013	37-11	09-021	44-01	12-563	43-34	17-8290-D	33-12	21-743W	08-52	23-552
26-33	00-8038	19-15	02-254	21-47	05-224	21-30	05-829	25-20	06-367	33-31	07-542	36-08	09-022	30-22	13-0110-6	42-19	17-8430-B	34-31	21-743W	06-05	23-554
46-01	00-8040	18-17	02-255	30-09	05-224	22-21	05-829	25-21	06-371	34-54	07-542	37-12	09-022	42-03	13-0110-6	43-35	17-9290-B	33-08	21-752W	08-50	23-554
26-28	00-8045	18-18	02-451	21-18	05-226	21-04	05-842	25-22	06-372	39-01	07-542	36-09	09-023	44-02	13-0110-6	43-36	17-9290-C	34-33	21-752W	38-25	23-554
24-33	00-8096	18-19	02-452	22-10	05-226	22-03	05-842	25-23	06-374	32-04	07-557	37-13	09-023	30-25	13-1510-5	43-37	17-9290-D	33-25	21-767	17-52	23-556
25-01	00-8097	18-20	02-453	24-01	05-271	23-01	05-850	27-01	06-375	32-05	07-558	37-14	09-024	43-02	13-1510-5	42-40	17-9380-A	34-42	21-767	16-04	23-558
27-01	00-8099	19-16	02-455	25-02	05-271	14-02	05-853	25-24	06-375	32-06	07-561	37-15	09-025	30-24	13-3020-5	36-12	18-010	02-90	21-798	16-05	23-560
41-01	01-102	17-17	02-659	24-02	05-272	23-02	05-853	25-25	06-376	32-07	07-562W	35-01	09-145	42-04	13-3020-5	44-10	18-769	36-16	21-798	16-06	23-562
41-02	01-103	13-01	04-501	25-03	05-272	25-18	05-881	26-02	06-491	32-08	07-563	35-02	09-147	02-02	14-167	08-12	18-799	02-91	21-799W	38-26	23-566
18-03	01-115	13-02	04-502	24-03	05-273	20-25	05-882	26-03	06-492	32-09	07-564	36-10	09-159	02-03	14-168	08-07	18-800	39-21	21-799W	11-04	23-567
19-03	01-115	17-47	04-502	25-04	05-273	25-19	05-882	26-04	06-493	33-30	07-572	34-14	09-504	36-11	14-169	08-08	18-801	02-13	21-874	16-07	23-567
41-03	01-116	32-01	04-502	24-04	05-274	20-26	05-894	26-05	06-494	34-53	07-572	34-15	09-506	39-20	14-170	08-11	18-803	14-04	23-018	02-20	23-570
41-04	01-132	13-03	04-507	25-05	05-274	27-06	05-897	26-06	06-495	39-02	07-572	36-30	09-506	32-11	14-171	08-03	18-804	01-03	23-041	16-08	23-571
41-05	01-134	13-04	04-508	24-05	05-275	45-05	05-897	26-07	06-496	33-29	07-573	37-16	09-506	44-03	14-563	08-01	18-805	01-04	23-045	16-09	23-574
41-06	01-136	21-33	05-045	25-06	05-275	46-05	05-897	26-08	06-497	34-52	07-573	35-03	09-519	44-04	15-769	42-20	18-805	11-03	23-063	01-40	24-052
41-07	01-138	22-24	05-045	24-06	05-276	20-27	05-898	26-09	06-498	39-03	07-573	35-04	09-521	44-05	15-770	08-09	18-806	32-12	23-124	02-21	24-053
41-08	01-141	20-02	05-051	25-07	05-276	21-01	05-901	27-11	06-516	39-04	07-574	35-05	09-522	43-04	15-800	42-21	18-806	01-10	24-060	01-10	24-060
41-09	01-143	20-03	05-052	24-07	05-277	22-01	05-901	30-11	06-516	39-05	07-575	35-06	09-523	44-06	17-4430-A	36-48	18-813	09-34	23-192	01-12	24-062
41-10	01-145	20-04	05-053	25-08	05-277	21-05	05-904	45-06	06-516	39-43	07-576	35-07	09-524	44-07	17-5480-1	42-43	18-831	09-25	23-283	01-11	24-069
41-11	01-147	20-05	05-054	24-08	05-278	22-04	05-904	46-06	06-516	39-06	07-577	35-08	09-525	44-08	17-5480-B	42-44	18-832	01-05	23-287	05-24	25-506
41-12	01-153	20-06	05-055	24-09	05-279	21-08	05-905	27-12	06-517	39-07	07-578	35-09	09-526	44-09	17-5480-G	13-05	19-505	17-55	23-289	05-25	25-507
41-13	01-154	07-07	05-056	24-10	05-280	22-07	05-905	30-12	06-517	39-08	07-579	35-10	09-527	43-07	17-5530-A	07-03	19-506	02-14	23-298	02-22	25-516W
41-14	01-155	20-08	05-057	24-11	05-281	21-10	05-907	45-07	06-517	39-09	07-580	35-11	09-528	43-08	17-5530-C	07-04	19-507	15-02	23-304	33-16	25-516W
02-92	01-156	20-09	05-058	24-12	05-282	21-20	05-910	46-07	06-517	39-10	07-581	35-12	09-529	43-09	17-5530-D	07-05	19-508	10-28	23-319	02-23	25-517
02-93	01-157	20-10	05-059	25-09	05-283	22-12	05-910	34-12	06-556	39-11	07-582	35-13	09-530	43-10	17-5530-F	07-06	19-509	04-01	23-324	33-13	25-517
18-04	02-017	20-11	05-060	25-10	05-284	21-21															

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REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番	REF. NO.	PART NO. 品 番
01-22	27-241	16-15	35-505	23-34	41-519	03-14	45-567	11-06	60-5160	06-20	69-513	08-37	71-558	32-29	75-452	18-35	75-528	18-37	79-551	08-41	84-158	34-17	84-521						
32-17	27-253W	16-16	35-506	23-35	41-525	03-15	45-568	18-22	60-8090	08-15	69-514	08-45	71-566	35-27	75-452	07-20	75-532	19-37	79-551	32-35	84-158	35-30	84-521						
32-18	27-254	15-20	35-509	23-39	41-526	07-11	47-801	19-23	60-8090	09-14	69-515	01-25	71-580	36-31	75-452	29-14	75-535	38-35	79-558	02-60	84-161	23-23	84-553						
02-37	27-279	16-17	35-512	23-15	41-527	06-10	49-501	11-07	60-8490	02-51	69-517	06-27	71-587	37-29	75-452	29-05	75-536	38-36	79-559	10-12	84-161	14-29	84-561						
16-10	27-301	16-18	35-517	04-09	41-528	10-24	49-501	11-43	60-8492	08-54	69-531	38-29	71-596	45-15	75-452	13-14	75-537	32-32	79-568	43-40	84-161	23-24	84-561						
02-38	27-303	16-19	35-519	23-43	41-528	08-55	50-8260	11-45	60-8493	11-15	69-532	08-43	71-634	34-09	75-453	21-29	75-537	38-37	79-568	18-41	84-162	17-05	84-562						
29-18	27-311	16-20	35-520	04-12	41-531	08-58	50-8270	11-08	60-8500	11-16	69-533	38-30	71-634	35-28	75-453	22-20	75-537	17-18	79-640	19-41	84-162	02-66	84-566						
29-17	27-312	16-21	35-521	23-44	41-531	32-53	50-8270	06-13	60-8510	06-21	69-536	38-31	71-648	37-30	75-453	26-31	75-538	22-26	79-642	41-36	84-162	14-30	84-566						
01-23	27-323W	02-44	35-522	04-13	41-532	36-19	51-001	11-09	60-8510	11-17	69-540	38-32	71-650	39-26	75-453	13-15	75-549	21-35	79-644	07-24	84-163	17-15	84-569						
29-21	27-354	07-10	35-526	23-45	41-532	37-19	51-141	06-14	60-8540	06-22	69-544	38-33	71-660	02-53	75-455	01-27	75-552	02-56	79-912	02-61	84-167	35-31	84-570						
26-30	27-369	16-22	35-528	04-14	41-701	37-20	51-142	06-15	60-8550	11-18	69-544	32-27	71-724	03-19	75-455	02-97	75-552	33-11	79-912	43-41	84-167	18-44	84-571						
02-39	27-522	16-23	35-529	23-17	41-701	37-21	51-143	36-24	61-016	06-23	69-549	17-23	71-726	12-20	75-455	14-15	75-552	34-19	79-912	43-42	84-171	19-46	84-571						
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MEMO

***NR** Series Instruction Manual*

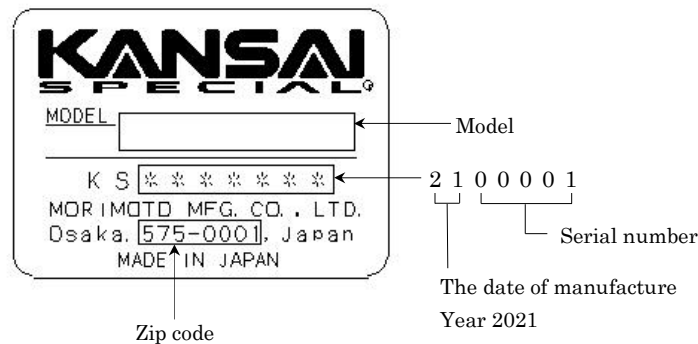
INTRODUCTION

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

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

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

Indication of serial number



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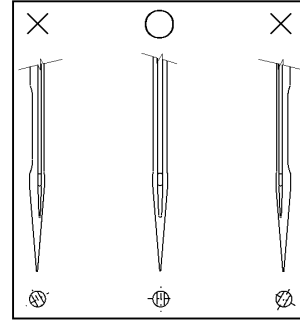
【1】 NEEDLES & THREADING

1-1 Needles

UY128GAS of Schmetz , Organ or Groz-Beckert.
Select the proper needle for the fabric and thread.

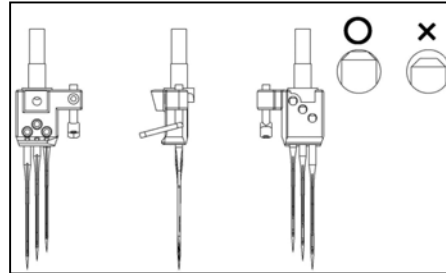
< Needles and needle size >

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



1-2 Replacing the needle

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

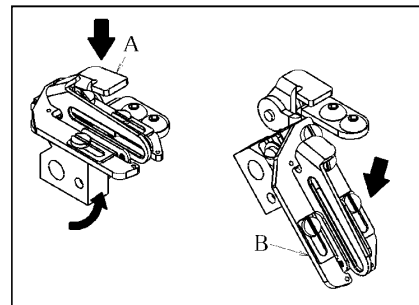


< Note >

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

1-3 Threading to the looper thread support plate

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



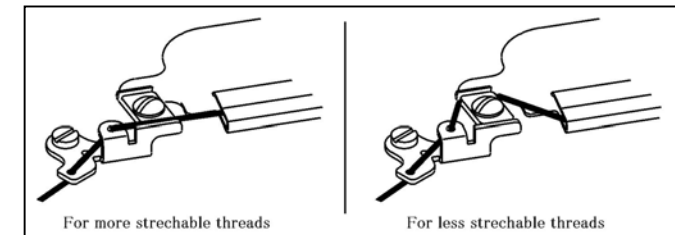
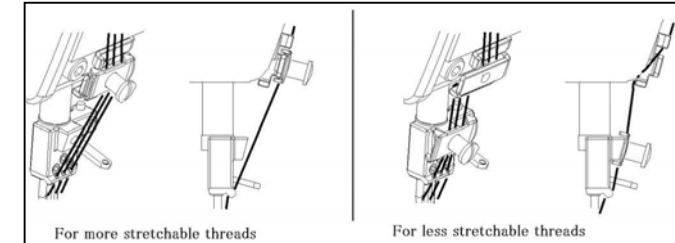
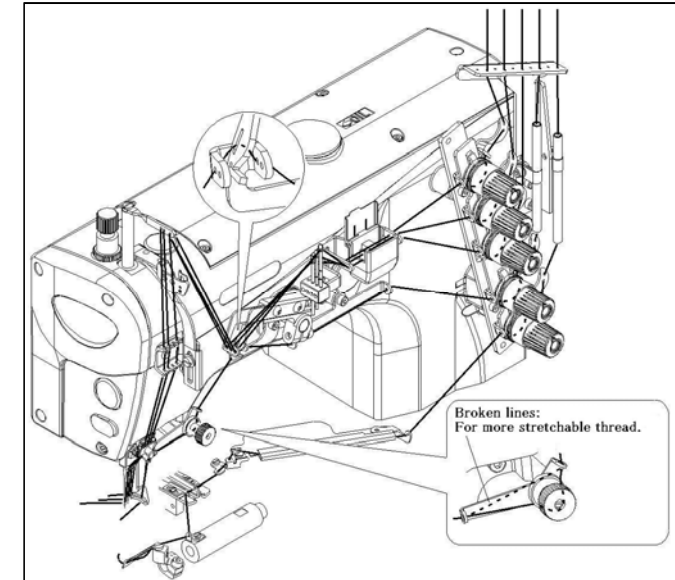
< Note >

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

1-4 Threading

Thread the machine correctly by referring to the illustration below.

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



【2】 MACHINE SPEED

NR25

2-1 Machine speed & operating direction

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

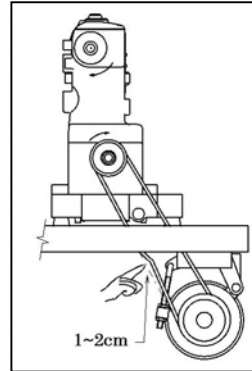
The machine pulley turns clockwise as the handwheel does as seen from the machine pulley

2-2 Motor & belt

Motor : 3-phase, 2-pole, 400W clutch motor

Belt : M type V belt

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



< Machine speed >

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

< Motor pulley selection table >

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

【3】 LUBRICATION

3-1 Oil

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

3-2 Oiling

■ To fill the machine with oil

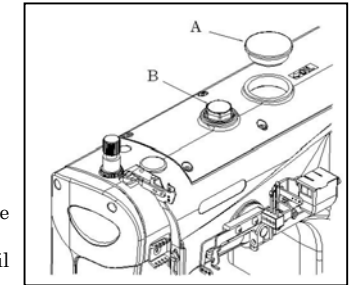
Remove rubber plug A from the oil hole.

Fill the machine with oil until the oil level is at the top line (see H in the illustration) on oil gauge C.

After the first lubrication, add oil so that the oil level will be between H and L.

■ To check for proper oil flow

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

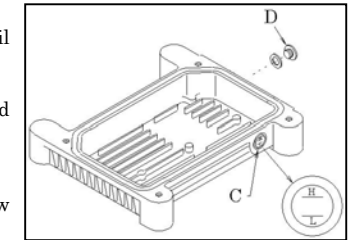


3-3 Replacing the oil and the oil element

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

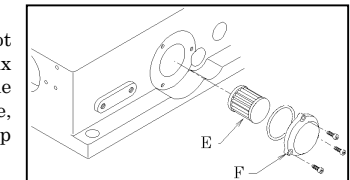
To replace the oil, follow the procedures below.

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



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

Replace the element if necessary.



< Note >

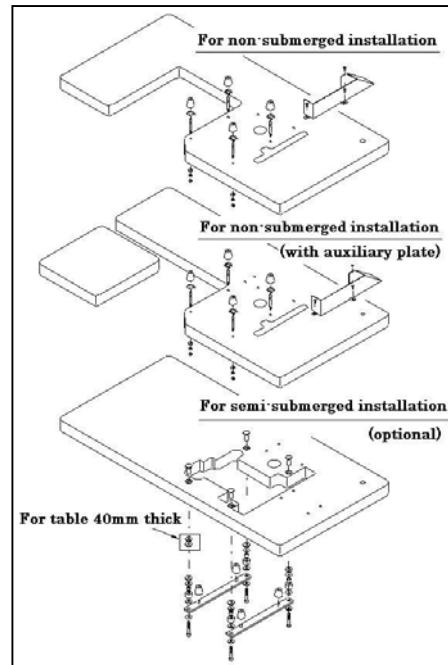
When the oil filter cap is removed, the oil collected on the element drips. Be careful.

4-2 Installing the machine

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

■ Non-submerged installation

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



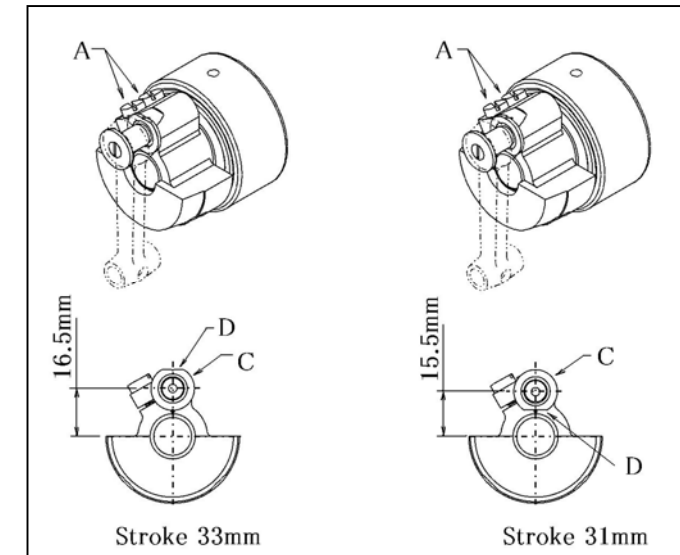
■ Semi-submerged installation

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

【 5 】 TIMING OF THE LOOPER TO THE NEEDLES

5-1 Changing the needle bar stroke

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



< Note >

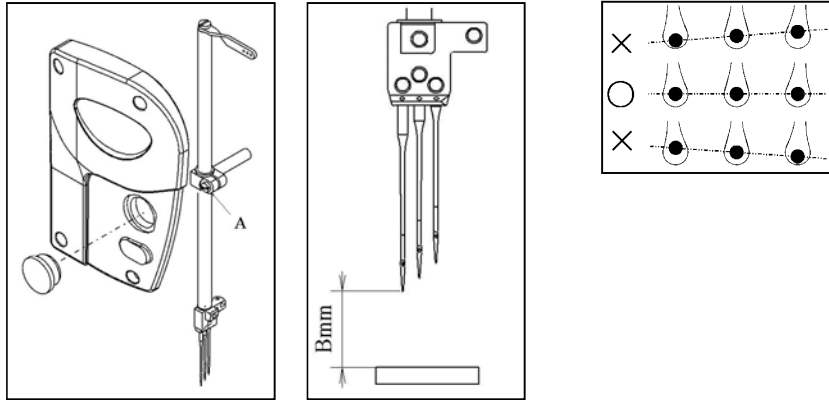
Before changing the needle bar stroke, be sure to turn off the power.

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

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

5-2 Adjusting the needle height

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

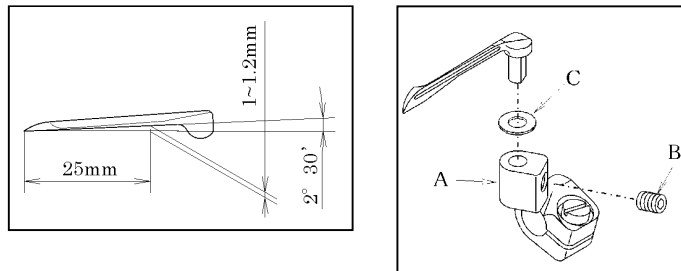


< Note >

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

5-3 Angle and height for installing the looper

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



< Note >

There is no need for washer C with UT series.

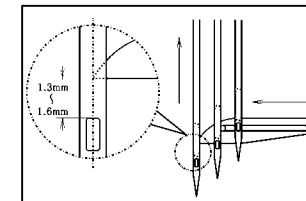
5-4 Looper setting distance

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



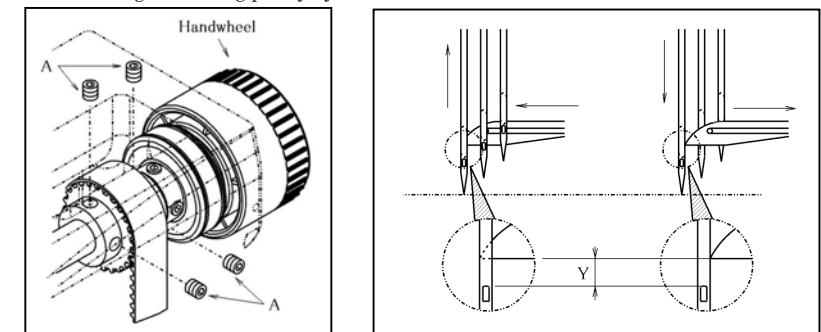
Needle stroke gauge (mm) (inch)	Needle height (Bmm)				Looper setting distance (Xmm)
	None UT	UT	None UT	UT	
	31 (STANDARD)		33		31/33
3.2 (1/8)	9.1±0.2	8.6±0.2	10.2±0.2	9.7±0.2	4.4
4.0 (5/32)	8.7±0.2	8.2±0.2	9.8±0.2	9.3±0.2	4.0
4.8 (3/16)	8.3±0.2	7.8±0.2	9.4±0.2	8.9±0.2	3.6
5.6 (7/32)	7.9±0.2	7.4±0.2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

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



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

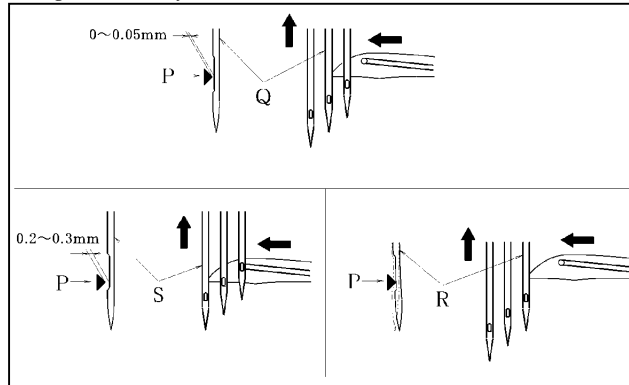
When the point of the looper moves to the left needle should be same distance Y from the top of its needle's eye to the point of the looper by referring to the illustration below. To adjust the timing of the looper to the needles, remove the machine cover, loosen screws A on the timing pulley (upper),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



5-6 Adjusting the needle/looper setting distance

The looper set the clearance between back side of the center needle Q and the point of the looper at 0~0.05mm. To make this adjustment, loosen screw B on the looper holder first. At this time the looper should barely touch the right needle R. And the point of the looper at this position, set the clearance between the left needle S at approximately 0.2~0.3mm.

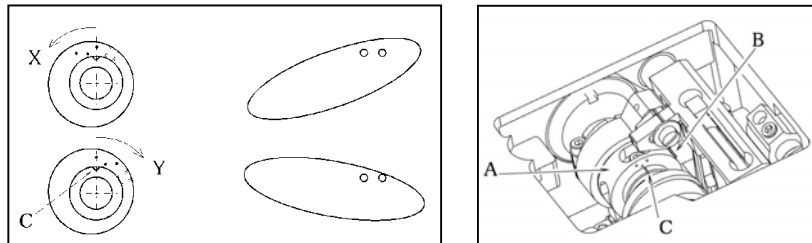
If you can not make this adjustment, please change the looper's orbit.(See below chapter) Then see chapter 6-1 for right needle adjustment.



< Note >

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

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



< Note >

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

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

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

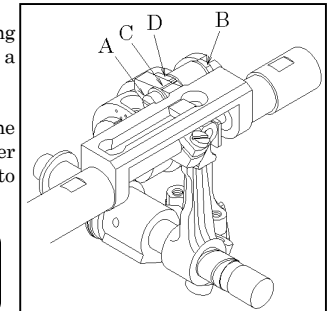
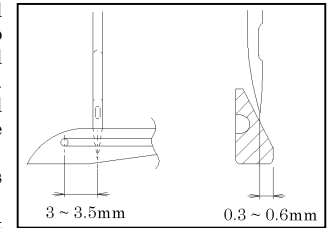
The amount of the looper front-to-back movement is factory-set properly for needle count #11 (Nm75).

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

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

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

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



< Note >

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

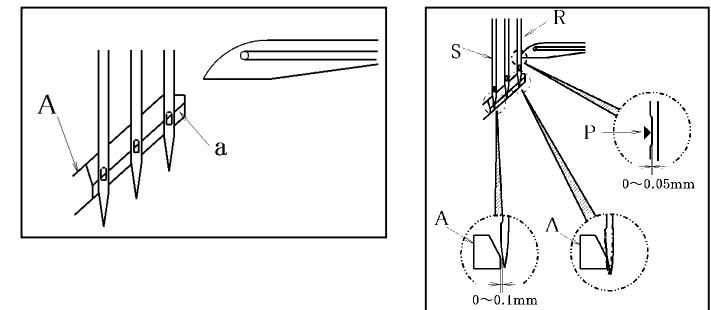
< Note >

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

[6] FRONT AND REAR NEEDLE GUARDS

6-1 Position of the needle guard (rear)

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

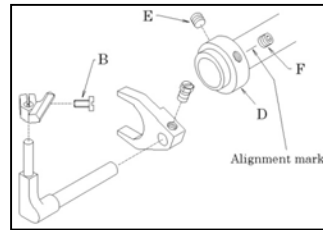
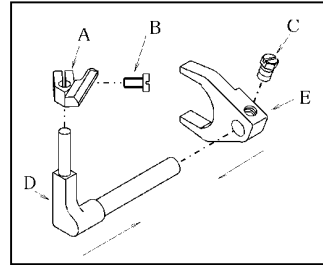


■To adjust the needle guard (A) front to back, loosen screws C. The vertical adjustment, and angle adjustment by loosen screw B correctly.

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

< Note >

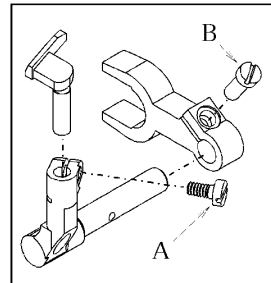
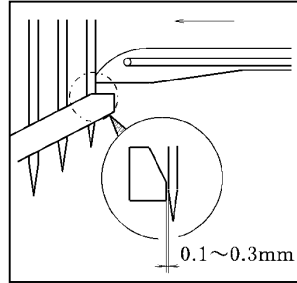
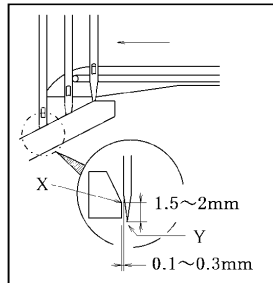
Retighten the screws while checking there is no left-to-right shake on the needle guard (A).



6-2 Position of the needle guard (front)

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

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



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

< Note >

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

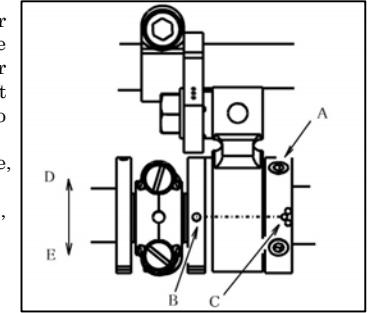
【7】 SPREADER

7-1 Timing of the spreader

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

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

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



7-2 Position of the spreader

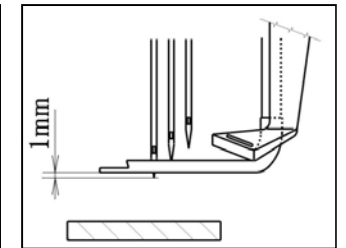
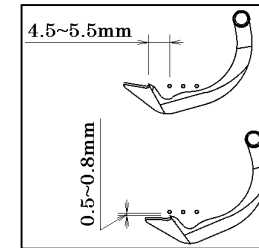
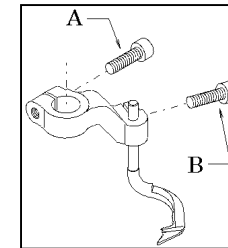
■Height

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

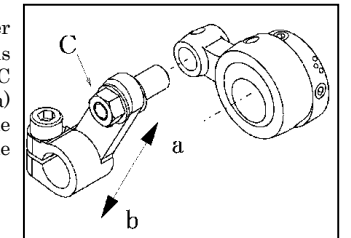
■Left-to-right position

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

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

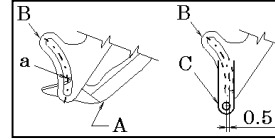
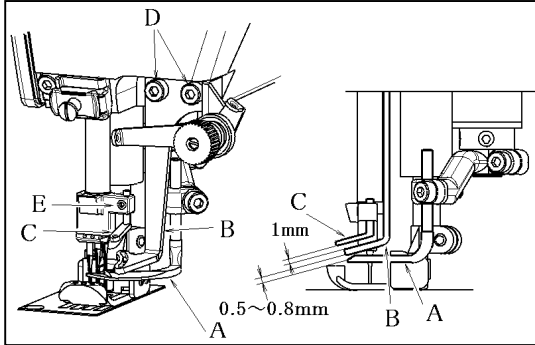


■Adjust ψ n according to the number of spreader threads and/or the fabric weight. To make this adjustment, remove the arm top cover, loosen nut C and then move the adjusting lever pin in direction (a) or (b). To decrease the amount, move the pin in the direction of (a). To increase the amount, move the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



7-3 Position of the spreader thread guide

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



【 8】 FEED DOGS & STITCH LENGTH

8-1 Feed dog height & tilt

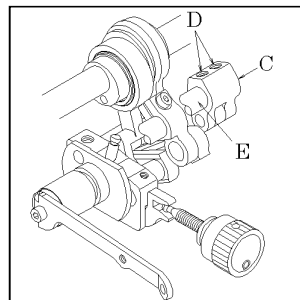
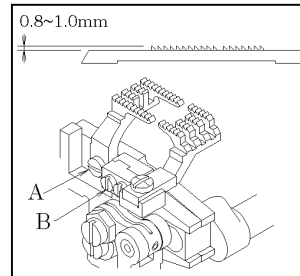
■ Height

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

■ Tilt

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

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



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

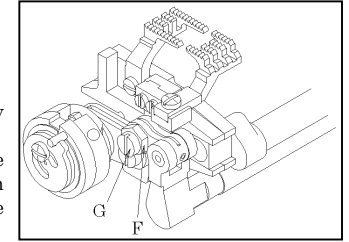
■ Maximum feed dog movement

< Amount of the front feed: 4.0mm >

< Amount of the back feed: 3.6mm >

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

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

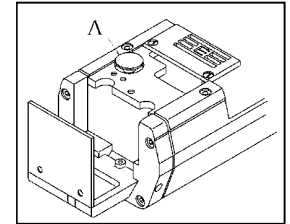


8-3 Adjusting stitch length

The stitch length is adjustable from 1.4~3.6mm.

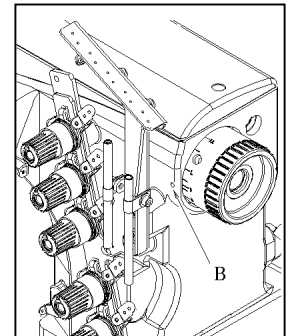
The following table shows the number of stitches within 1 inch (25.4mm) or 30mm according to the stitch length.

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



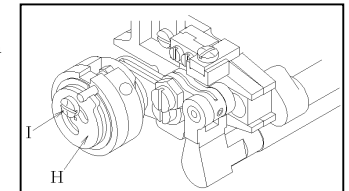
■ To adjust the stitch length

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



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

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

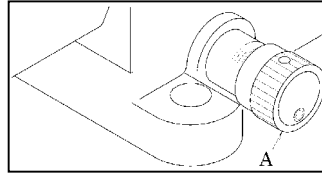


< Note >

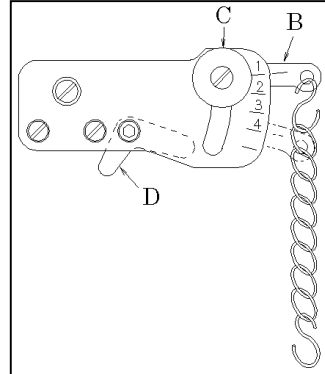
Before adjusting the stitch length, be sure to turn off the power.

8-4 Differential feed

The NR Series is equipped with independently driven main (back) and differential (front) feed dogs. Adjust the feeding amount of the differential (front) feed dog by positioning differential feed adjusting lever B or turning adjusting knob A. The normal and reverse differential feeds can be obtained as required.



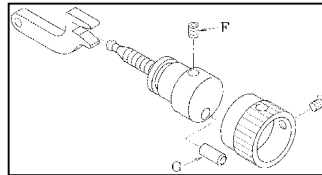
- Feeding amount of the differential (front) feed dog
The readings indicate the feeding amount of the differential (front) feed dog. Loosen nut C. Set differential (front) feed adjusting lever B as required at 1.0~4.0mm or adjust by turning adjusting knob A.
- If you use differential feed lever, secure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



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

< Differential feed ratio >

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

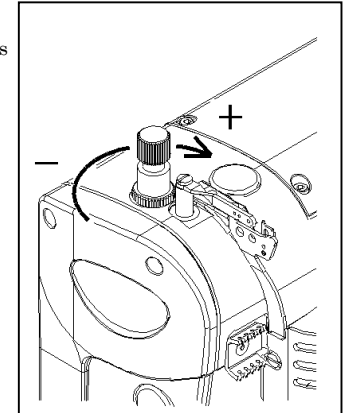


- On the NR Series the feeding amount can be changed mechanically up to 4.5mm. To obtain 4.5mm, loosen screw F and move stop pin G to release the stopping position. If you change to the maximum feeding amount, adjust the feed dogs front to back while checking to make sure the feed dogs do not touch the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

【9】PRESSER FOOT

9-1 Adjusting presser foot pressure

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

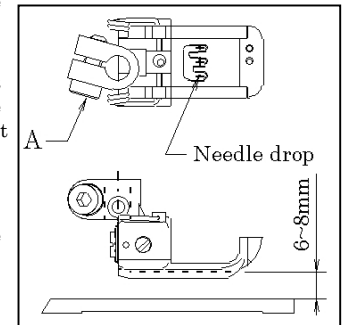


9-2 Position of the presser foot & foot lift

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

■ Position of the presser foot

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

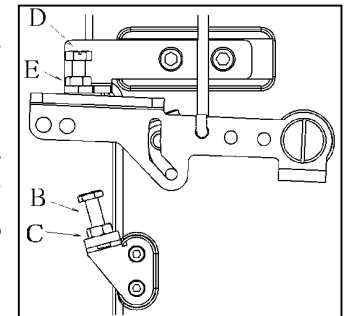


■ Foot lift

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

Set stopper B at the required position.

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



9-3 Adjusting the float-foot

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

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

< Note >

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

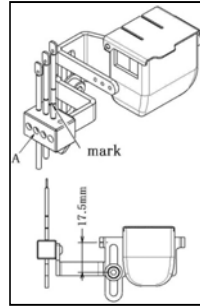
【10】 STITCH FORMATION

10-1 Position of the needle thread guides

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

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

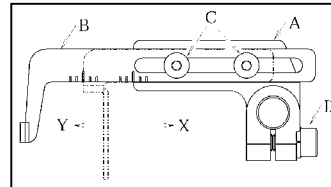
If the stitch formation cannot be changed extremely by adjusting the height of the thread guides because of the thread to be used, unravel the thread after test sewing and adjust the height of the thread guides while checking the tension of the needle thread.



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

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

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

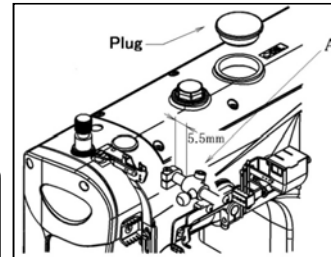


10-3 Timing of the needle thread take-up

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

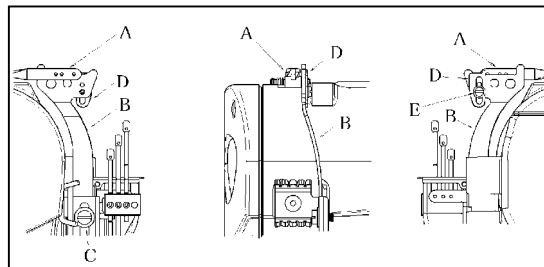
< Note >

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



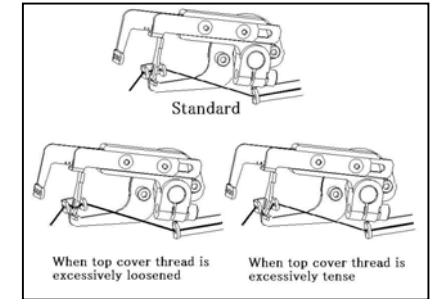
10-4 Position of the needle thread guide

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



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)

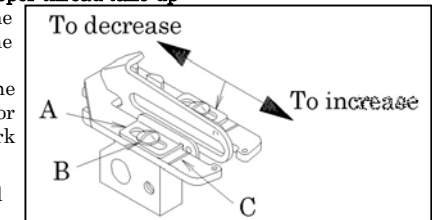


10-6 Position of the thread guide of the looper thread take-up

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

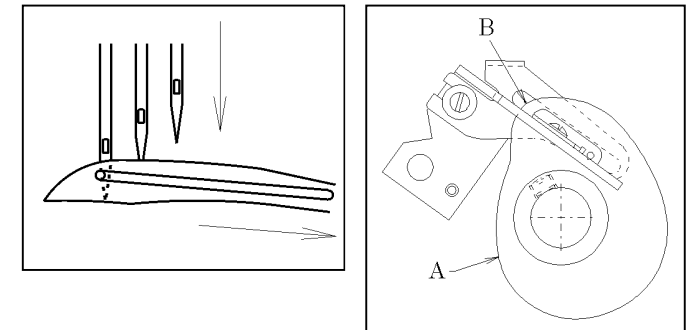
To do so, loosen screw B and move the eyelet of thread guide A to the front or back while referring to alignment mark C on the bracket.

- 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.



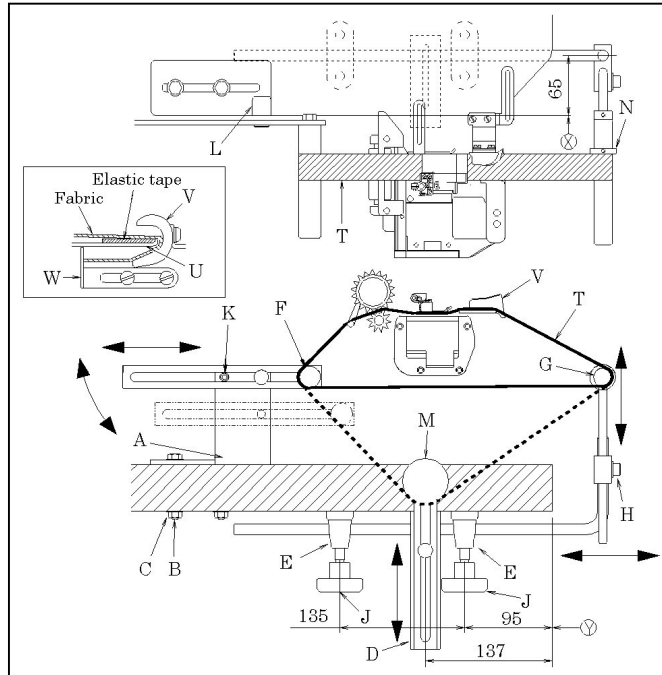
【 11】 ADJUSTING THE ALK AND PLK

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

1. To install each elastic tension roller
 - a. Secure rear roller bracket A with bolt B and nut C onto the top surface of the machine table.
 - b. 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).
 - c. Install lower taper roller bracket D on the underside of the machine table (refer to the distance from table end Y shown below).
2. To sew the fabric
 - a. Raise the presser foot and position elastic tape T as shown below.
 - b. 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.

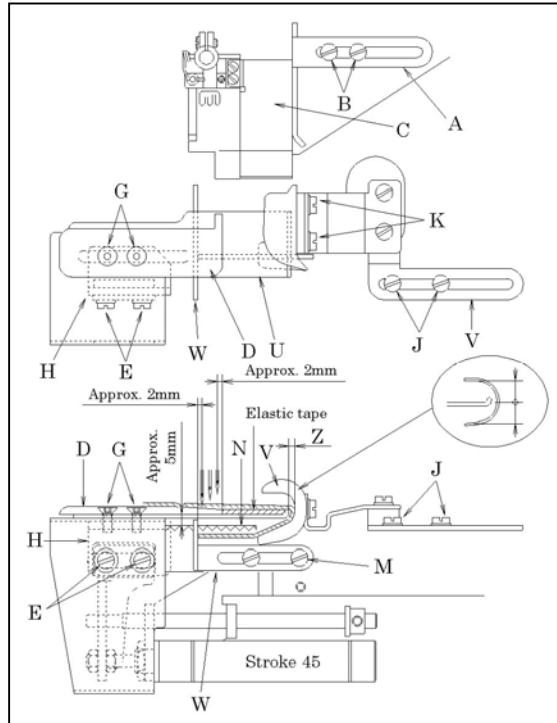


- c. Place the fabric on rear roller F and protrude the fabric edge sufficiently to the right to form a hem. Hold the fabric lightly by hand so that the fabric will not move to the left or right. Do not form a hem forcibly during sewing. It may cause trouble due to the change of tension on the fabric.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

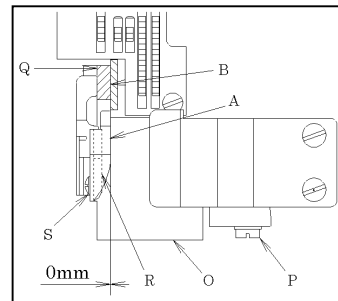
1. To adjust the height of the lower elastic guide
The clearance between lower elastic guide U and top surface N of the needle plate is factory-set at approximately 5mm. Adjust this clearance according to the fabric to be used. Loosen screw E and move elastic guide bracket H up or down as required.
2. 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.
3. To adjust the elastic width
Loosen screws G and adjust lower elastic guide U left to right according to the elastic width.
4. 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 make same line. To adjustment of hem guide, loosen screw P on the guide O.

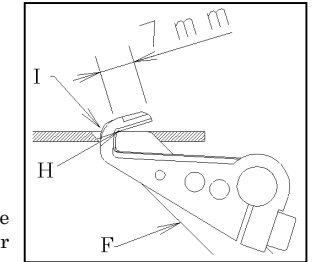


11-5 Adjusting the fabric trimmer positioned to the left of the needle

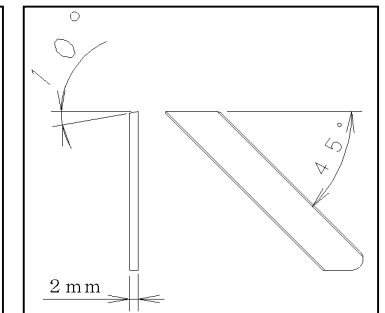
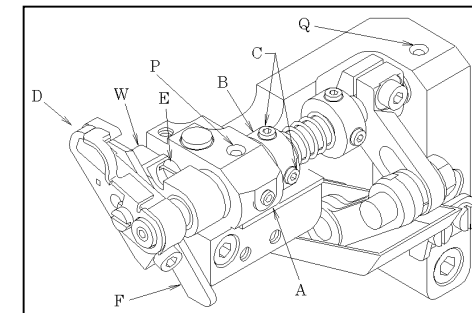
1. To adjust the width of the fabric edge to be cut
Loosen screw A and adjust by moving upper knife holder D and lower knife holder W simultaneously left to right as required. Then tighten screw A.

< 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.



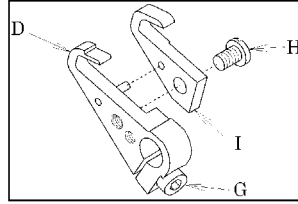
4. To remove/install the upper knife

< 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.

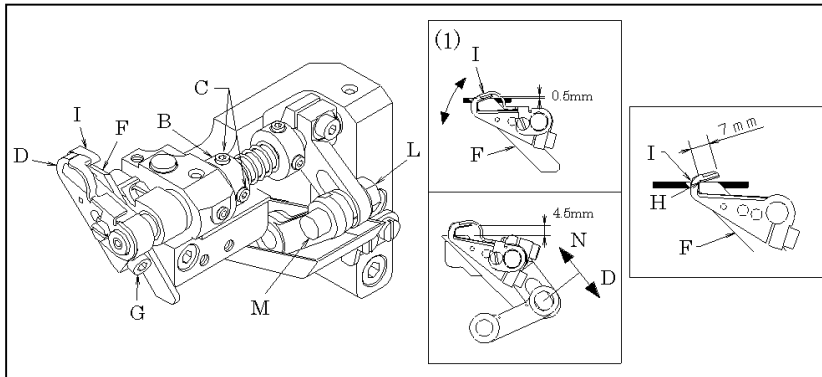


5. To adjust the stroke of the upper knife

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

< Note >

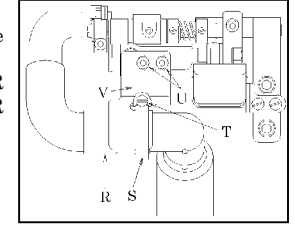
When the stroke was changed, the overlap 0.5mm between upper and lower knives needs to re-adjust at the above mention of c to g. Factory adjustment.
The stroke of upper knife is adjusted by 4.5mm, which is minimum of it (The upper knife lever pin M is the point of bottom). For gaud of upper and lower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



6. To adjust the sucking pipe

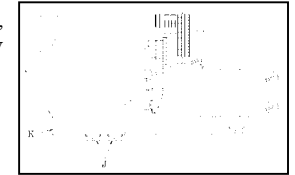
Loosen screws U on bracket V and adjust sucking pipe R up and down.

Loosen screw T on band S and adjust sucking pipe R front to back and left to right. Install sucking pipe R properly.



7. To adjust the support cover

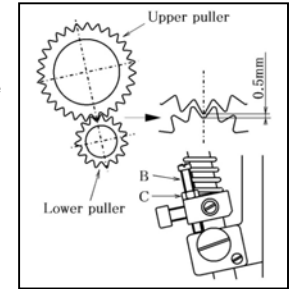
When the position of vacuum pipe was changed, also, the position of support cover K should be change by loosen screw J.



【12】 ADJUSTING THE REAR PULLER

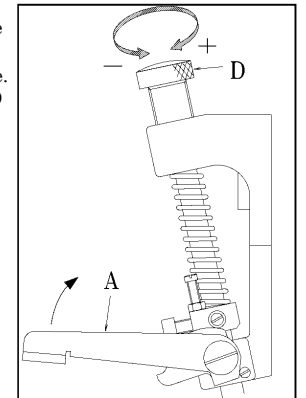
12-1 Position of the hand lever and the stopper

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



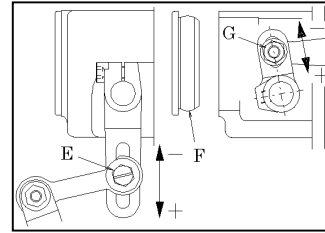
12-2 To adjust the puller pressure

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



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

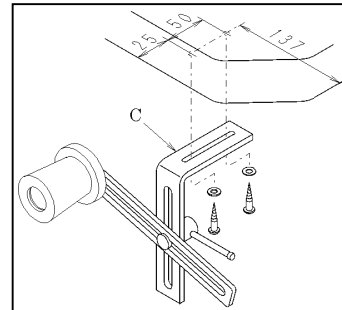
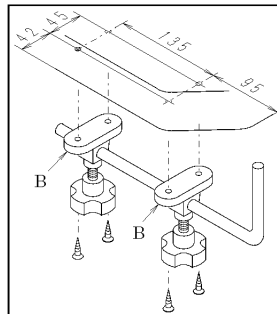
The feeding amount of the rear puller should be the same as that of the feed dog. Loosen nut E.
To decrease the amount, move upward.
To increase the amount, move downward.
If the proper feeding amount is still not obtained after the above adjustment, remove rubber plug F and loosen screw G with a hex. wrench.
To decrease the amount, move upward.
To increase the amount, move downward.



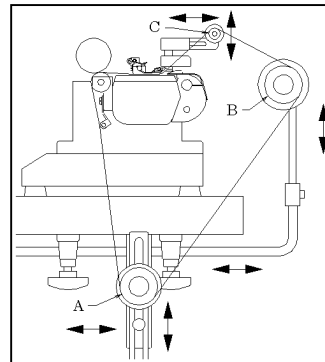
【13】 ADJUSTING THE PHK

13-1 Adjusting the roller

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

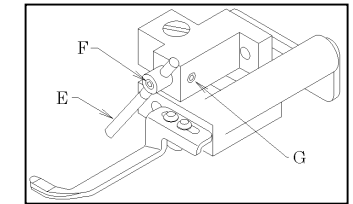
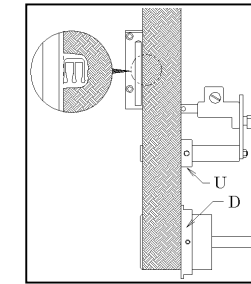


■ Rollers A, B, C are adjustable with finished waist size so that rollers adjust the proper position for elastic band's size.



■ In order to locate the elastic band by moving properly (L-R direction).

Adjust by the elastic slast collar D on the front roller B, the elastic guide collar U on the front roller C, and the elastic guide pole E on the upper side of the ruler plate. 25~45mm widths of the elastic band can be used.



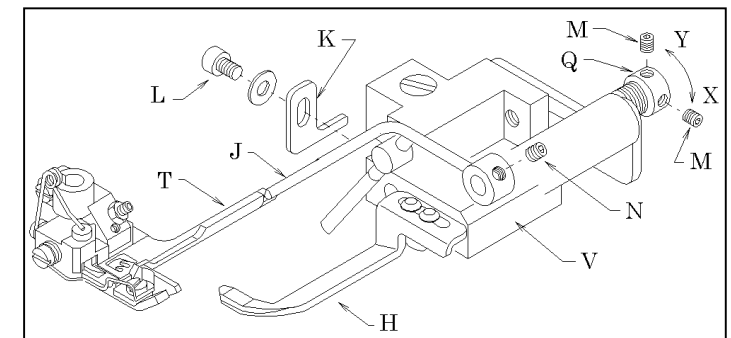
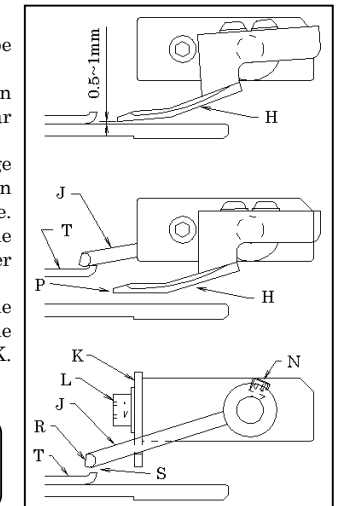
13-2 Adjusting the cloth presser

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.

Make the gap S between the presser foot T and the edge R of the guide bar J by loosening screw N on the guide bar J and screw L on the stopper K. Tighten the screw N and L after this adjustment.

< Note >

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

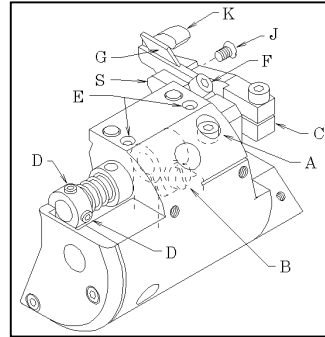


13-3 Adjusting the knife apparatus

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 >

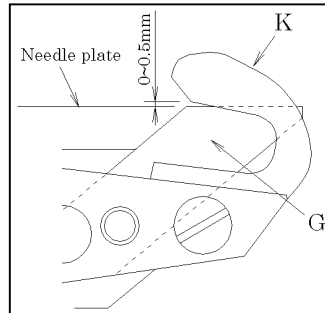
Do not tighten the screw A on the lower knife too much.



- 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>

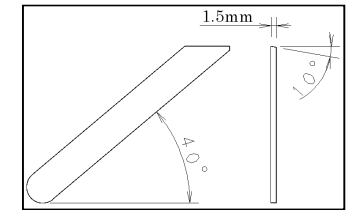
- a. Tighten screw J while attaching the upper knife K to the upper knife table C.
- b. Make sure the sharpness of the upper and lower knives by putting a thread between them and rotating a pulley manually.

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.

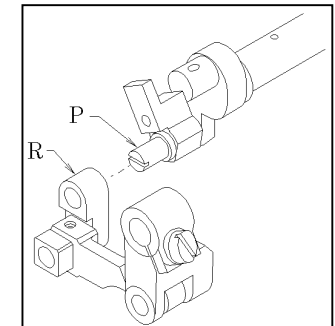
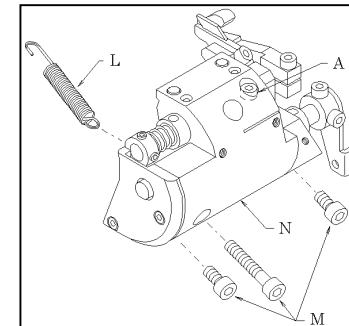
5. How to grind knives.

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.



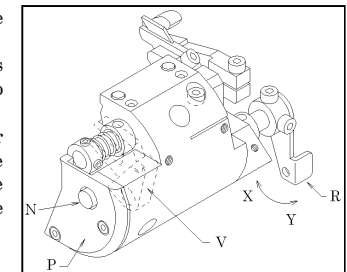
6. How to detach the right knife table.

- 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.

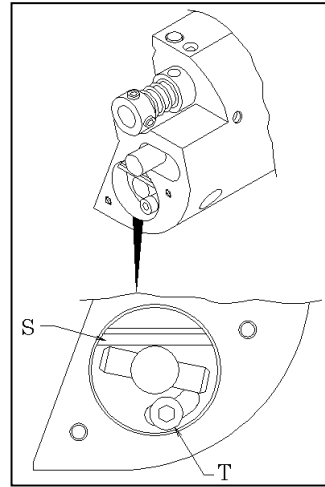


13-4 Adjusting the mechanism of knife drops

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.



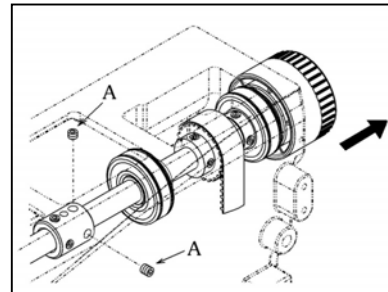
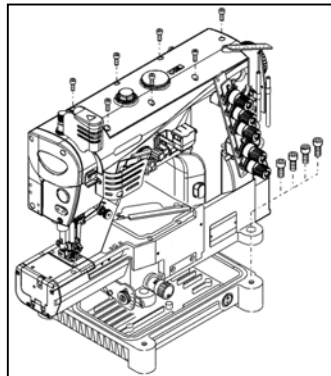
- c. Pull the drop lever R to the direction Y slightly until the edge of the push bottom N touches the upper knife adjust lever V. You can lock the movement of the upper knife after this.
 - d. In order to unlock it, push the drop lever R to the direction of Y. Push bottom N will be away from the upper 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

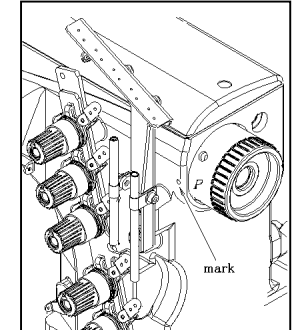
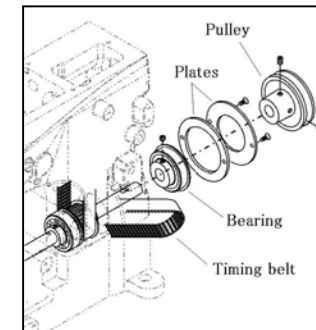
14-1 To remove the timing belt

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.



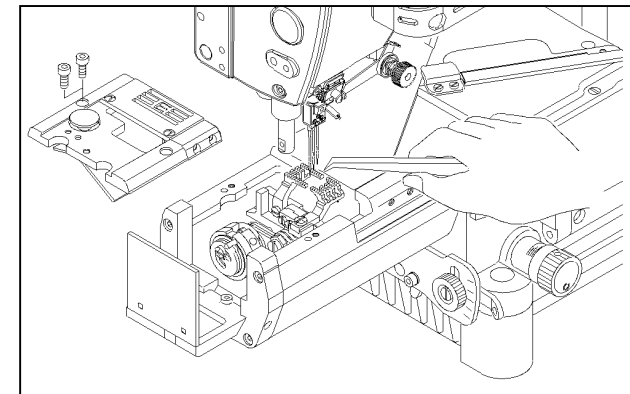
14-2 To place the timing belt

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.

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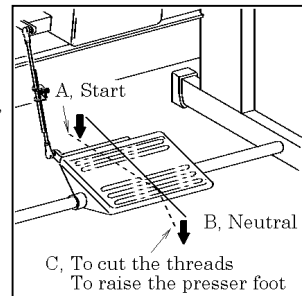
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【1】 HOW TO USE THE THREAD TRIMMER

< Note >

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

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

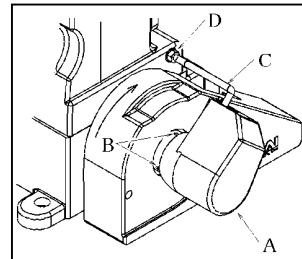


【2】 INSTALLING THE POSITION DETECTOR

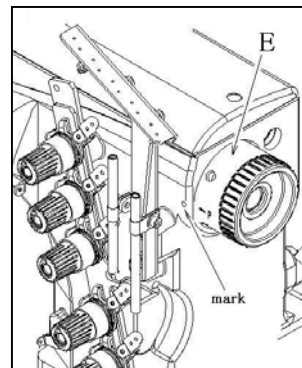
- Install position detector A and tighten screw B temporarily.
- Fit positioner bar C onto the guide groove of the position detector. Then tighten screw D.
- Turn on the motor.

< Note >

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



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



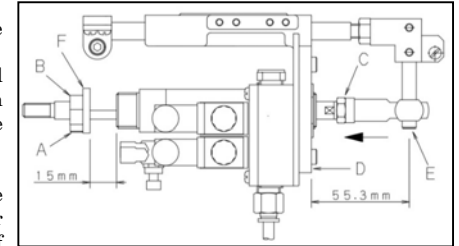
【3】 ADJUSTING THE THREAD TRIMMER AIR CYLINDER (UTA)

3-1 Air cylinder stroke

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

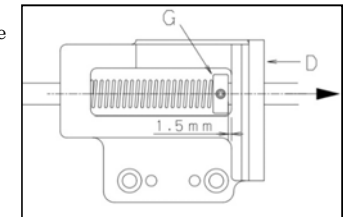
To adjust this stroke, loosen collar B and screw A. Set the clearance between rubber cushion F and the rear end of the cylinder at 15mm.

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



3-2 Air cylinder return spring

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



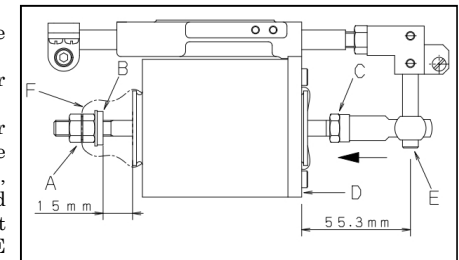
【4】 ADJUSTING THE THREAD TRIMMER SOLENOID (UTE)

4-1 Solenoid stroke

The stroke of the solenoid should be approximately 15mm.

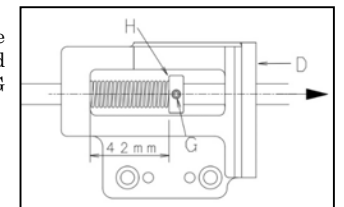
To adjust this stroke, remove rubber cover F and loosen nut A.

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



4-2 Adjusting the solenoid return spring

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



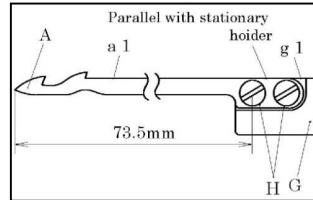
【 5】 ADJUSTING THE THREAD TRIMMER

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

■ Position of the movable knife

Set the (a 1) part of the movable knife A parallel to the (g 1) part of the stationary holder G.

Set the distance from point of movable knife A and the center of left screw H at approximately 73.5mm.

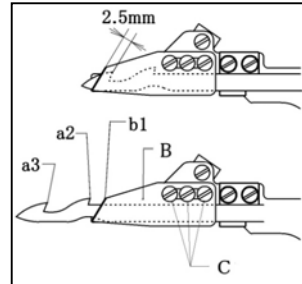


■ Relation between the stationary knife and the movable knife.

Adjust the engagement between blade (a 3) for trimming looper thread and stationary knife to be 2.5mm when movable knife is at the extreme right.

So that the point of blade (a 2) for cutting needle thread pass the corner (b 1) of stationary knife B.

The adjustment is made by loosening screw C.

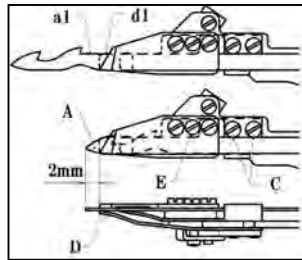


5-2 Adjusting the looper thread clamp spring

Position of looper thread clamp spring D so that the part (a 1) of movable knife and the part (d 1) of looper thread clamp spring are on the same plane.

And adjust it will protrude approximately 2mm from the point of movable knife A when movable knife is at the extreme right. Adjustment is made by loosening screw C.

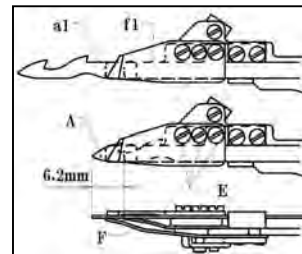
To adjust the pressure of thread clamp spring D, turn adjusting screw E. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise.



5-3 Adjusting the movable knife pressure spring

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

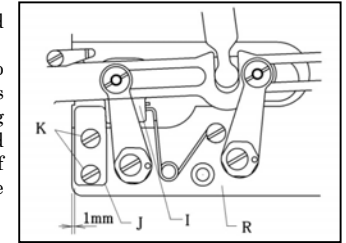
Adjustment is made by loosening screw E.



5-4 Adjusting the stationary knife holder stopper

The stationary knife holder I slides to the left and stops by stationary knife holder stopper J.

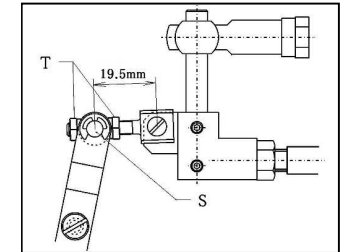
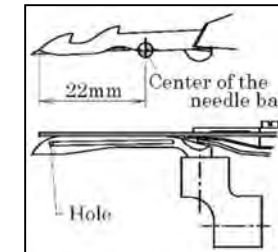
Never slide the stationary knife holder I to the left too much because the looper thread clamp spring touches the looper. The adjustment is made by loosening screw K and moving stationary knife stopper left and right. The standard position, the left end of stationary knife holder stopper is 1mm right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



5-5 Adjusting the movable knife holder left and right

With movable knife A at the extreme left end of its travel, there should be a distance of 22mm from the center of the needle bar to the point of movable knife A.

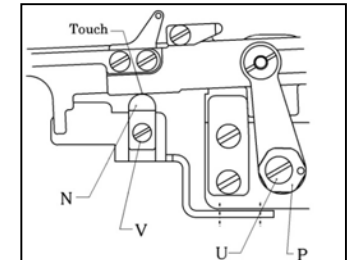
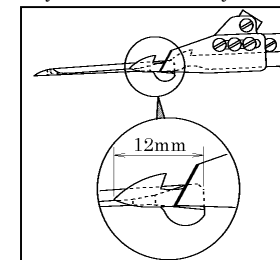
To make the above adjustments, loosen nut T and move the pin S make a fine left-to-right adjustment by turning nut T. The point of the movable knife is center between the point of the looper and the eye's of the looper when move extremely left position of the knife.



5-6 Adjusting the movable knife front to back

To adjust the movable knife front to back, center the point of movable knife over the looper with the point of movable knife 12mm moved to the left from the right end of looper. To adjust, when loosening screw U and turning guide lever ring 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.

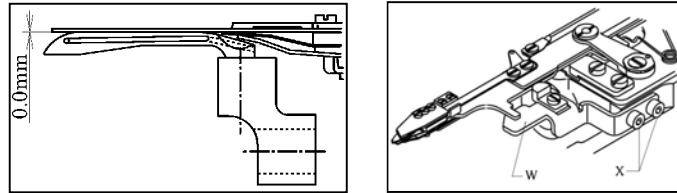


< Note >

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

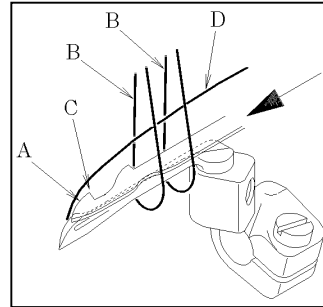
There should be a clearance of 0mm between movable knife and the top surface of looper. The adjustment is made by loosening screw X and moving stationary knife holder guide. After the above adjustment, make sure the movable and stationary knife holders move smoothly.



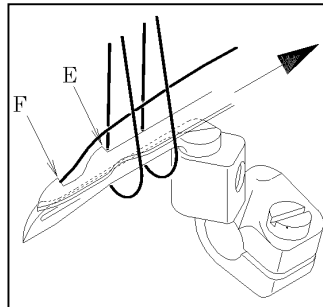
5-8 Relationship between the movable knife, needle thread and looper thread

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.

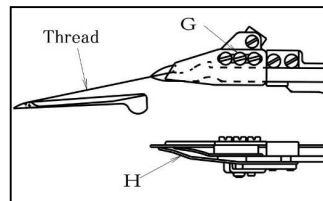


- When the movable knife is returning home, the needle threads and looper thread are pulled to the right by cutting edges E and F and cut by the stationary knife.



5-9 Looper thread clamp spring pressure

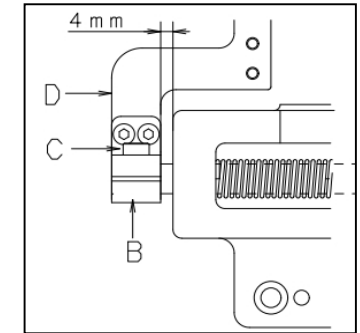
The looper thread clamp spring holds the looper thread after it is cut. To adjust the pressure of thread clamp spring H, turn adjusting screw G. To increase the pressure, turn it clockwise. To decrease the pressure, turn it counterclockwise. The machine is supplied with a spun thread (#60). The pressure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



【 6 】 ADJUSTING THE THREAD RELEASER

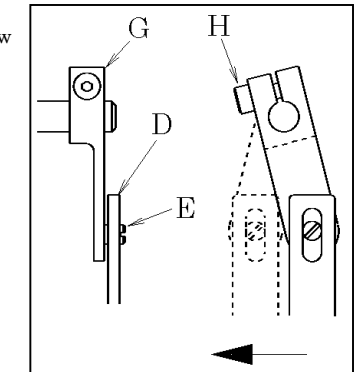
6-1 Thread releaser block

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.



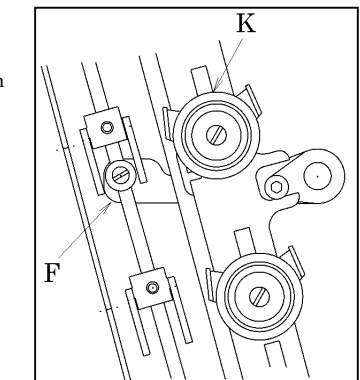
6-2 Thread releaser connection plate

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

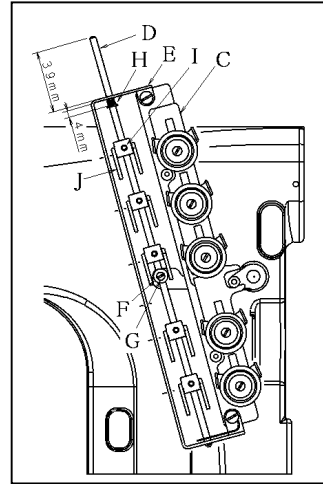
Position thread releaser lever F so that the thread tension disk can open as fast as possible. Then tighten screw H for thread releaser connection lever G at the rear of the arm.



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.

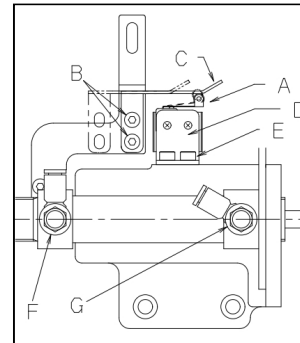
To decrease the amount of the thread supplied by the thread take-up, raise the thread releaser hook.

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.

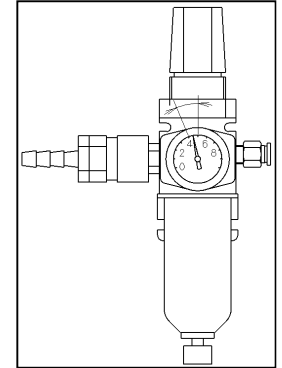
Switch A of the detector must be pressed (ON) during sewing (with the thread trimmer completely returned home). Adjust by loosening screws B and E and moving brackets C and D.



【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 >

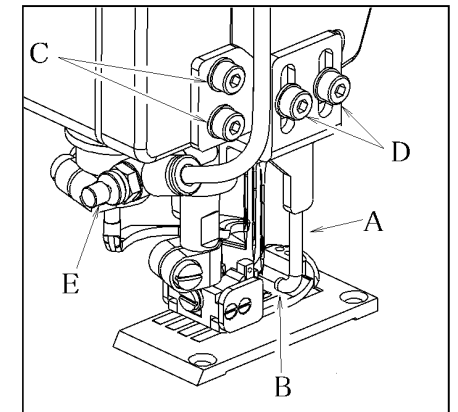
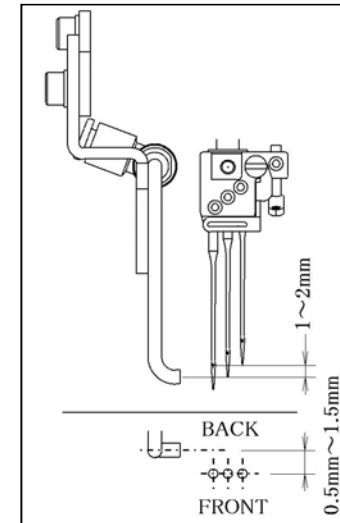
Set the regulator at 4~5kg/cm². To increase the pressure, turn the adjusting knob clockwise. Too fast speed will give a shock to the knife holder. Then the threads will be cut before they are caught by the knife or the threads will not be held properly. It may cause trouble.

【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.

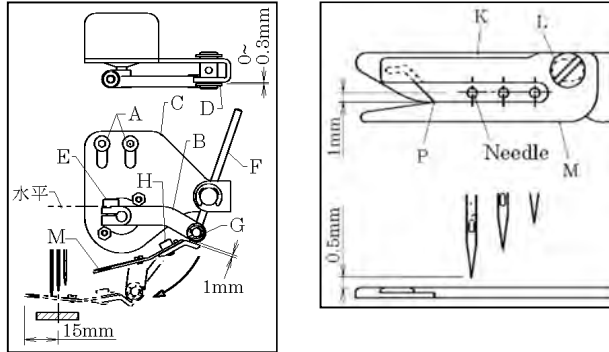
■The position of air blowing outlet B should be 0.5~1.5mm from backside of the needles. Loosen screw C and air wiper front or back required.

■Adjusting amount of blowing air by adjust screw E.



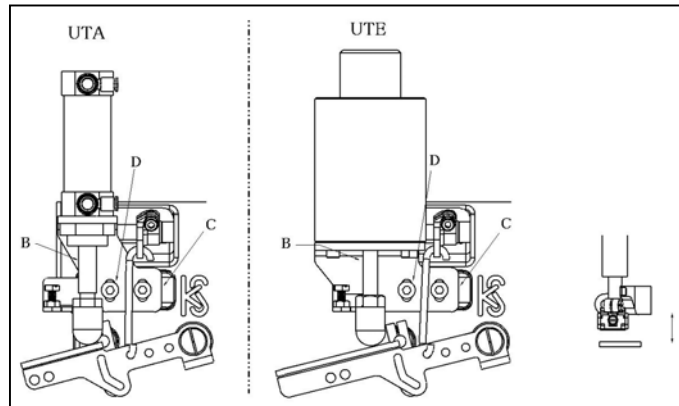
【 10】 THREAD WIPER ADJUSTMENT (UTE)

- 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.



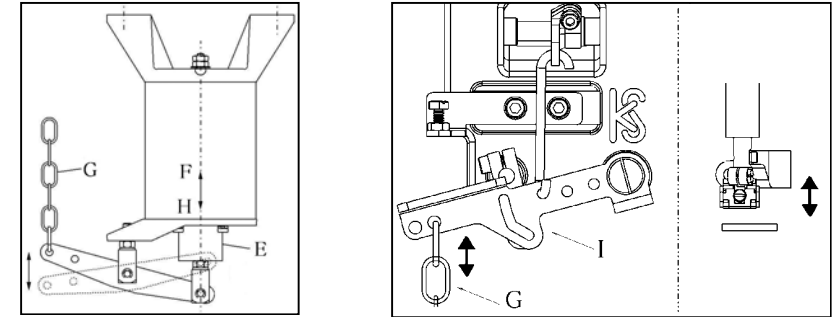
【 11】 ADJUSTING THE PRESSER FOOT LIFT

- 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-UTE

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.

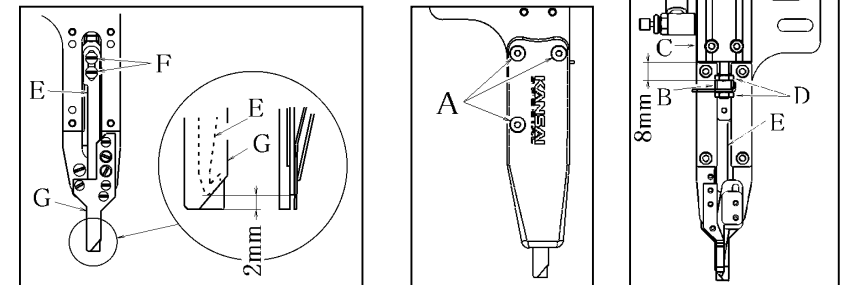


【 12】 ADJUSTING THE TOP COVER THREAD TRIMMER

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

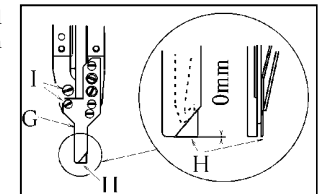
When the movable knife E retracts all the way, Set the clearance between mount bracket B and the end of the air cylinder C at 8mm. Tighten nut D. (Model for UTA)

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.



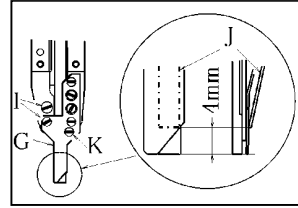
12-2 Adjusting the top cover thread clamp spring

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



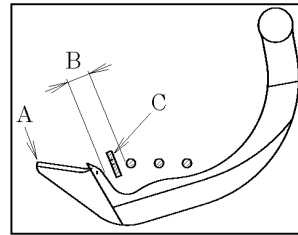
12-3 Adjusting the top cover thread rear spring

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



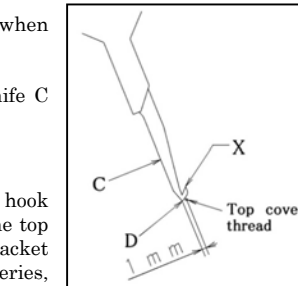
12-4 Adjusting the thread clamp pressure

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.

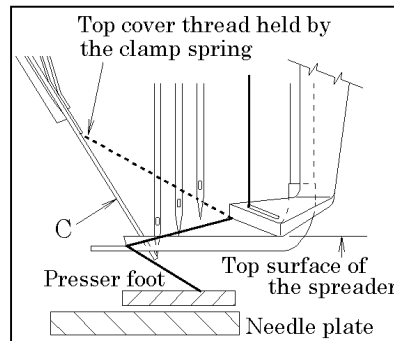
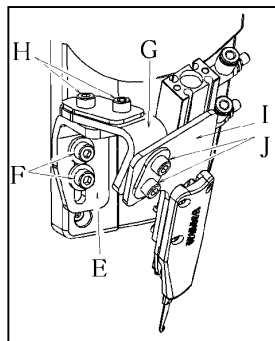


12-6 Adjusting the movable knife front to back

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)

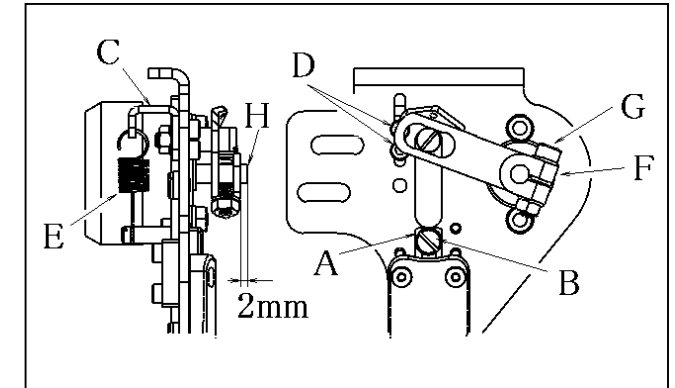


< Note >

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

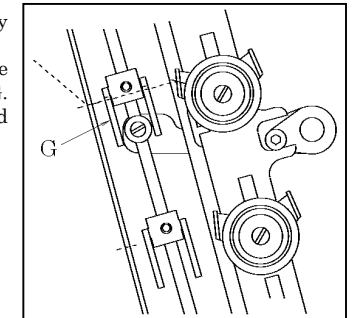
12-8 Adjusting the solenoid return spring (UTE)

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

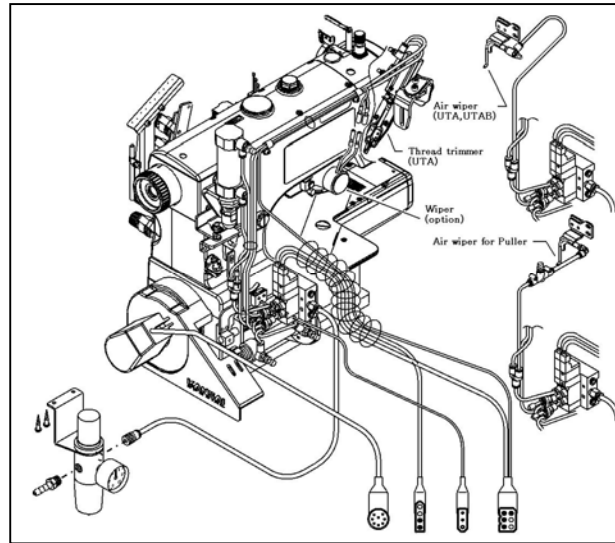
To decrease the amount of the thread supplied by the thread take-up, move up thread releaser hook G. To increase the amount of the thread supplied by the thread take-up, move down thread releaser hook G. If the amount is too small, the top cover thread cannot be held after it is cut.



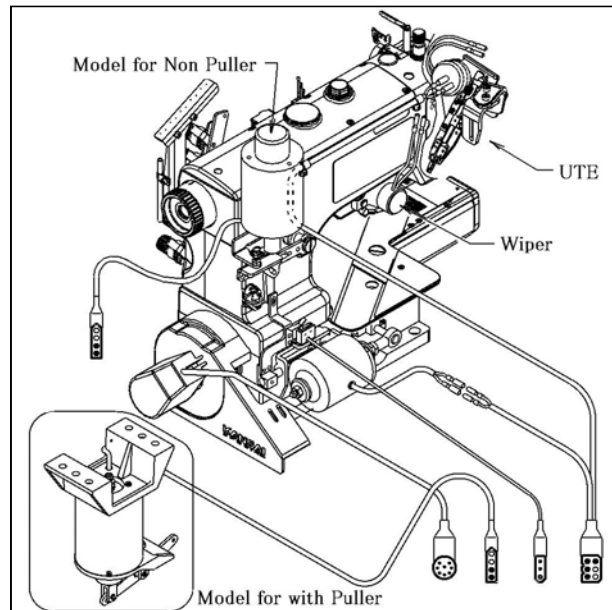
【 13 】 WIRING AND PIPING FOR PNEUMATIC DEVICES

■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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