

JUKI®

No. 0088-07

1985-5

AE1030S0PJA

model **MO-103**

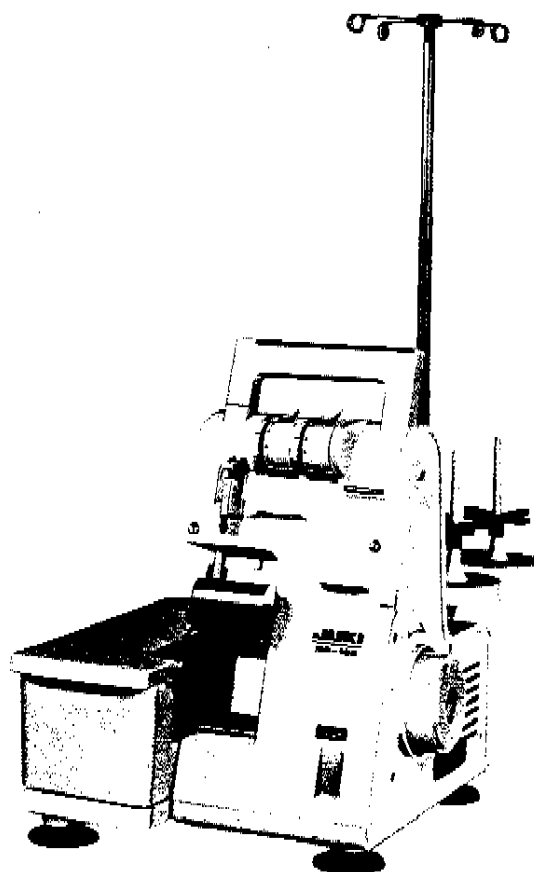
一本針縁かがり縫ミシン

Single Needle, Overedging Sewing Machine

ジューキロックミシン

JUKI LOCK

PARTS BOOK



HOW TO MAKE USE OF THIS PARTS BOOK

1. As a basic principle, this parts book is divided into various sections according to the functions of respective parts.
2. The part numbers of parts shown in the figure indicate the corresponding numbers(Ref.No.) shown by the Index.
3. Explanation of codes

- 1) 1 mark means this part is changed from the previous parts book.
- 2) .01 refer to "Note" explanation at bottom of page.

- 2) Codes on the "E.C. (Engineering change)" column

- 1 A.10/74 Added from October, 1974
- 2 D.1/75 Obsolete from January, 1975
- 3 When D.(obsolete) and A.(added) are indicated together
D.12/74
A.12/74

- 3) When previous parts (Obsolete part) and new parts (Added parts) are not interchangeable with each other:

In this case, even obsolete parts(D.) can be ordered with the obsolete part number, so select the parts with changed dates and place your orders.

(Example)

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req.
注記	品 番			変更年月		数量
1		B1401-100-000	Needle bar	D.12/74	ハリボー	-
1-1		B1401-100-000-A	Needle bar	A.12/74	ハリボー	1

- ④ In case when previous parts and new part are interchangeable with each other:

In this case the new part number is replaced on the "品名(Japanese)" column of the previous parts, so please order by the new part number:

(Example)

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req.
注記	品 番			変更年月		数量
1		B1105-200-000	Frame cover	D.12/74	B1105-300-000	-
		B1105-300-000	Frame cover	A.12/74	フレームカバー	1

- 4 C.3/75 This indicates error was discovered in March, 1975 and so it was corrected to a new part number.

Please note that in this case, the corrected part number is shown in the part number column and the wrong part number is shown in the "品名(Japanese)" column, so please order by the correct part number.

(Example)

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req.
注記	品 番			変更年月		数量
1		B1105-500-000	Frame cover	C.3/75	B1105-600-000	1
		Correct No.			Wrong No.	

- 5 M.5/75 The amount required is changed from March, 1975

The new amount required is shown in the "Amt. Req." column.

- 3) Codes on the "Amt. Req." column

- 1 2 Indicates amount required is 2.
- 2 2.0 Indicates length in meters. (unit is meter)
- 3 - Indicates parts obsolete from the parts book.
- 4 (1) Indicates sub parts which construct the assembly part.

Assembly part is shown as "asm." and アセ in Japanese. in the "Description" column.

(Example)

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req.
注記	品 番			変更年月		数量
10		B1105-900-0A0	Frame cover(asm.)		フレームカバー アセ	1
11		B1105-900-000	Frame cover		フレームカバー	(1)
12		SS-8110310-SP	Screw 11/64-40 L=2.8		トメネジ 11/64-40 L=2.8	(2)

When Ordering The Spare Parts:

In order to ensure that we deliver the correct parts to you, please clearly state when ordering the corresponding PART NUMBER (e.g. B1109-012-A00) and also the PARTS BOOK NUMBER (e.g. 0010-01, given at the top right of the cover) or the MACHINE SERIAL NUMBER, because there are some parts which have been changed.

パーツブックの見方

- このパーツブックは、原則として、機械別に分類された各項目からなっております。
- 図に示された部品の品番は、図にふられている No.(Ref. No.) に対応するインデックスによって、その品番がわかります。
- 記号の説明

1) "注記" 欄の記号

- ☆印……………前回のパーツブックに比較して今回変更された部品を意味します。
- ◇印……………ページ下の"注記"の説明を参照して下さい。

2) "変更年月" 欄の記号

- ① A. 10/74……………1974年10月より追加された。
- ② D. 1/75……………1975年1月より削除された。
- ③ D. (削除)、A. (追加) が混在してある場合。
D. 12/74
A. 12/74

※ 部品の互換性がない変更の場合

この場合は削除 (D) された品番でも御注文できますから、変更年月により、いずれかの部品を選択して御注文下さい。

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req. 数量
	注記	品 番		変更年月		
1	☆	B1401-100-000	Needle bar	D.12/74	ハリボー	—
1-1	☆	B1401-100-000-A	Needle bar	A.12/74	ハリボー	1

※ 部品の互換性がある場合の変更

この場合は、旧部品の和文品名欄にそれにかわる新しい品番が記入してありますので、新しい品番で御注文下さい。

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req. 数量
	注記	品 番		変更年月		
7	☆	B1105-200-000	Frame cover	D.12/74	B1105-300-000	—
	☆	B1105-300-000	Frame cover	A.12/74	フレームカバー	1

- ③ D. 3/75……………1975年3月に品番のミスが判明した為、正しい品番に訂正された。
この場合は品番欄に正しい品番を、和文品名欄に間違いの品番が記入してありますので、正しい品番で御注文下さい。

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req. 数量
	注記	品 番		変更年月		
1	☆	B1105-500-000	Frame cover	C.3/75	B1105-600-000	1
		↑ 正しい品番			↑ 間違っていた品番	

- ④ M. 5/75……………1975年5月より数量が変更になった。
この場合数量欄には新しい数量が表示してあります。

3) "数量" 欄の記号

- ① 2……………数量、2個を表わします。
- ② 2.0……………長さ、2メートルを表わします。(単位はメートルです)
- ③……………このパーツブックから削除された部品です。
- ④ (1)……………組部品を構成している子部品を表わします。
組部品は品名欄に英文で "asm." 和文で "組み" と表示してあります。

Ref. No.	Note	Part No.	Description	E.C.	品 名	Amt. Req. 数量
	注記	品 番		変更年月		
10		B1105-900-0A0	Frame cover ^{asm.}		フレームカバー ^{組み}	1
11		B1105-900-000	Frame cover		フレームカバー	(1)
12		SS-B110310-SP	Screw 11/64-40 L=2.8		トメネジ 11/64-40 L=2.8	(2)

補用部品注文の際の御注意

このパーツブックに記載されている補用部品を御注文の際は、部品の番号(例えば、B1109-012-A00)で御注文下さい。合わせて、御覧のパーツブックの管理番号(表紙右上、例えば、No. 0010-01)又は、機械番号を御連絡頂ければ幸いです。

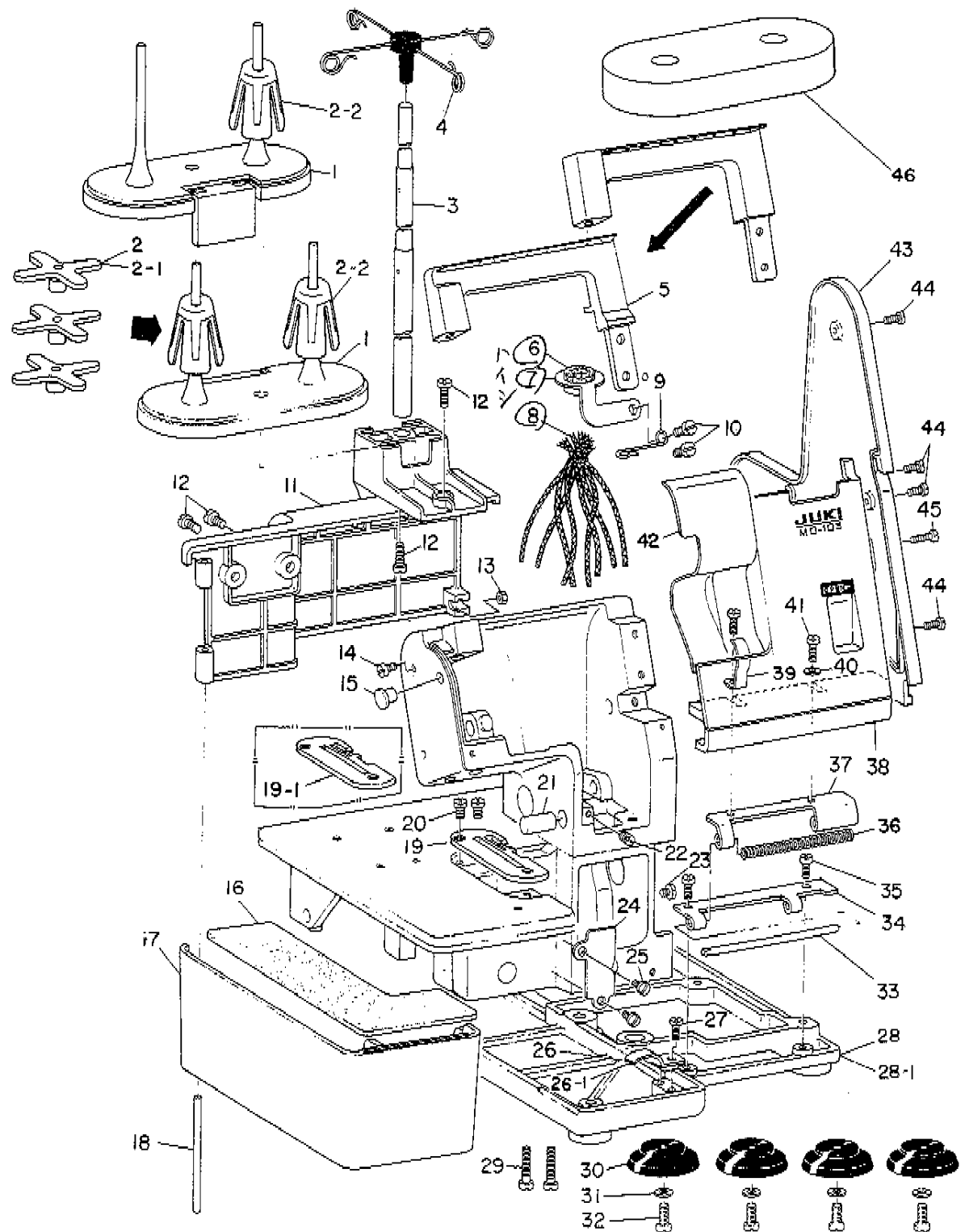
改良のため部品の一部が変更になる場合がありますのでご了承下さい。

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1. FRAME COMPONENTS
フレーム関係



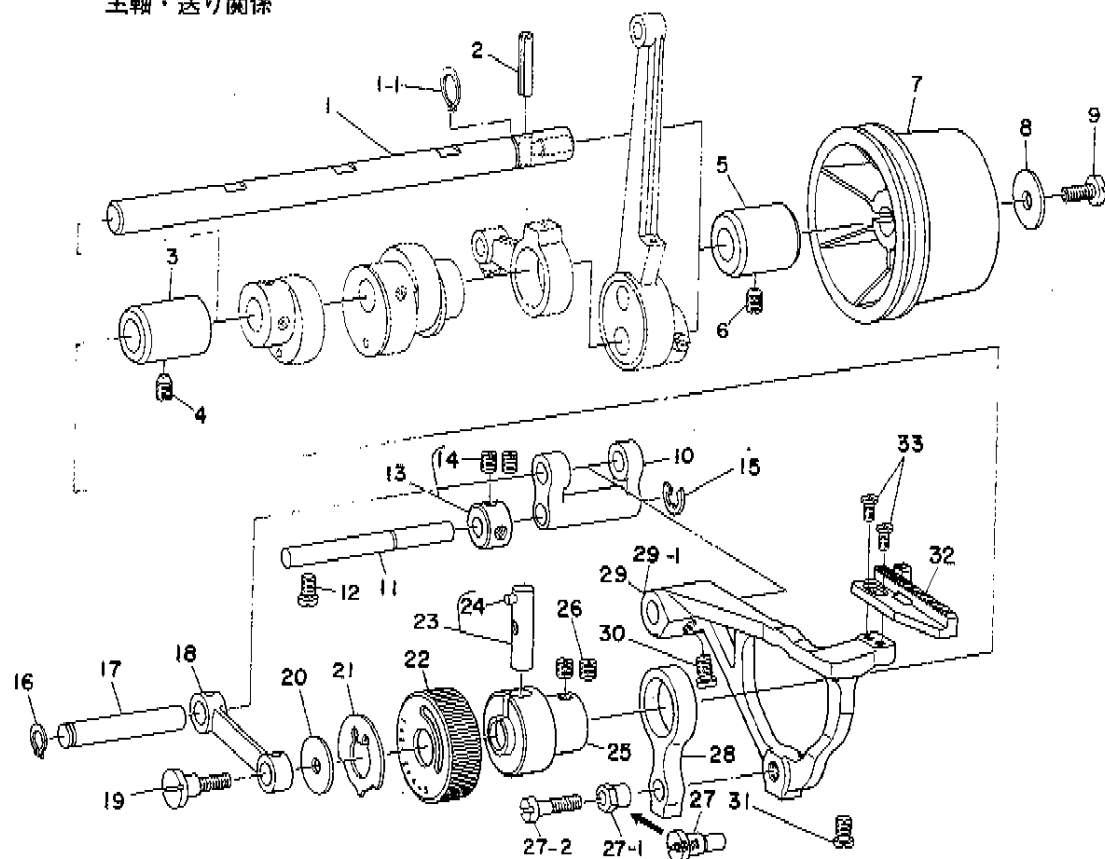
Ref. No.	Note	Part No.	Description	E. C.	品名	Amt. Req.
1		A1123-102-000	SPOOL HOLDER		イトワテワラ	2
2	002	A1128-102-000	SPOOL RETAINER	D.11/81	A1120-202-000	-
2-1	001	03312-012-000	SPOOL RETAINER	D.11/81	A1120-202-000	-
2-2		A1120-202-000	SPOOL RETAINER	A.11/81	イトワテ フレイト	3
3		A1124-102-000	SPOOL REST POLE		イトワテ イトワテ	1
4		A1127-104-000	THREAD GUIDE		イトワテ イトワテ	1
5		A1116-104-000	HANDLE	D.08/82	A1116-104-0A0	-
		A1116-104-0A0	HANDLE ASM	A.08/82	トツ	1
6		02615-232-000	OIL FELT WASHER	D.10/82	オイルフェルト	-
7		A1118-102-000	OIL RECEPTACLE	D.10/82	PPラック	-
8		CQ-2020000-00	OIL WICK	D.10/82	オイル	2.5
9		A1126-102-000	OIL WICK RETAINER	D.10/82	オイルホルダー	-
10		SS-6121210-SP	SCREW 3/16-28 L=12		ビス 3/16-28 L=9	2
11		A1105-102-00A	MOTOR COVER		モーターカバー	1
12		SS-6121210-SP	SCREW 3/16-28 L=12		ビス 3/16-28 L=9	4
13		NS-6090110-SP	NUT 9/64-40		ナット 9/64-40	1
14		SS-7090710-SL	SCREW 9/64-40 L=6.8		スクリュー 9/64-40 L=6.8	1
15		B1158-581-000	RUBBER PLUG	D.12/79	A1134-102-000	-
		A1134-102-000	RUBBER PLUG	D.10/82	ゴム栓	-
16		A1109-102-000	SIDE COVER CUSHION	D.10/82	サイドカバー シート	-
17		A1106-103-000	SIDE COVER	C.02/80	A1106-102-000	1
18		A1107-102-000	SIDE COVER HINGE PIN		サイドカバー ヒンジピン	1
19		A1121-103-000	THROAT PLATE		ノド板	1
19-1	004	A1121-103-A00	THROAT PLATE	A.06/79	ノド板	1
20		SS-6110480-SL	SCREW 11/64-40 L=4.3		ビス 11/64-40 L=4.3	2
21		A1106-102-000	UPPER KNIFE ARM GUIDE SHAFT		ウッパースタッフ	1
22		SS-8120740-SP	SCREW 3/16-28 L=7		ビス 3/16-28 L=7	1
23		SS-6090520-SP	SCREW 9/64-40 L=5.0		ビス 9/64-40 L=5	1
24		A1131-103-000	CHIP PROTECTOR		スリット	1
25		SS-5110810-SP	SCREW 11/64-40 L=8		ビス 11/64-40 L=8	2
26	*	A1108-102-000-A	SIDE COVER STOPPER	D.01/83	サイドカバー ストッパー	-
26-1	*	A1108-102-000-B	SIDE COVER STOPPER	A.01/83	サイドカバー ストッパー	1
27	*	SS-6121050-SP	SCREW 3/16-28 L=9.5	D.01/83	SS-7110510-SP	-
	*	SS-7110510-SP	SCREW 11/64-40 L=5	A.01/83	スクリュー 11/64-40 L=5	1
28	*	A1103-102-000-A	FRAME BOTTOM PLATE	D.01/83	ソコ板	-
28-1	*	A1103-102-000-B	FRAME BOTTOM PLATE	A.01/83	ソコ板	1
29		SS-6151920-SP	SCREW 15/64-28 L=19.0		ビス 15/64-28 L=19	2
30		A1129-102-000	RUBBER CUSHION		ゴムパッド	1
31		WP-0501016-SD	WASHER 5X10.5X1		ワッシャー 5X10.5X1	4
32		SS-6121210-SP	SCREW 3/16-28 L=12		ビス 3/16-28 L=9	4
33		A1113-102-000	LOOPER COVER HINGE PIN		ルーパーカバー ヒンジピン	1
34		A1111-102-000	LOOPER COVER HINGE A		ルーパーカバー ヒンジ A	1
35	*	SS-6121050-SP	SCREW 3/16-28 L=9.5	D.01/83	ビス 3/16-28 L=9.5	-
	*	SS-7110510-SP	SCREW 11/64-40 L=5	A.01/83	スクリュー 11/64-40 L=5	2
36		A1130-102-000	LOOPER COVER SPRING		ルーパーカバー スプリング	1
37		A1112-102-000	LOOPER COVER HINGE B		ルーパーカバー ヒンジ B	1
38		A1110-103-000	LOOPER COVER		ルーパーカバー	1
39		A1115-102-000	CHIP GUARD STOPPER		スリットガード ストッパー	1
40		WP-0450000-SD	WASHER 4.5X8X0.5		ワッシャー 4.5X8X0.5	1
41		SS-7110910-SP	SCREW		スクリュー 11/64-40 L=8.5	2
42		A1114-102-000	CHIP GUARD COVER	D.11/80	A1114-103-000	-
		A1114-103-000	CHIP GUARD COVER	A.11/80	スリットガード	1
43		A1104-102-00A	SIDE COVER		ソコメンカバー	1
44		SS-7090110-SL	SCREW 9/64-40 L=8.5		スクリュー 9/64-40 L=8.5	4
45		SS-7091410-SL	SCREW 9/64-40 L=13.5		スクリュー 9/64-40 L=13.5	1
46	001	A1133-102-000	SPOOL REST CUSHION	A.04/79	スクリュー イトワテ	1

Note (注記) 001 For domestic use
 002 For export
 004 Special order part for hemming

国内用
 輸出用
 巻縫用特別注文部品

2. MAIN SHAFT & FEED MECHANISM COMPONENTS

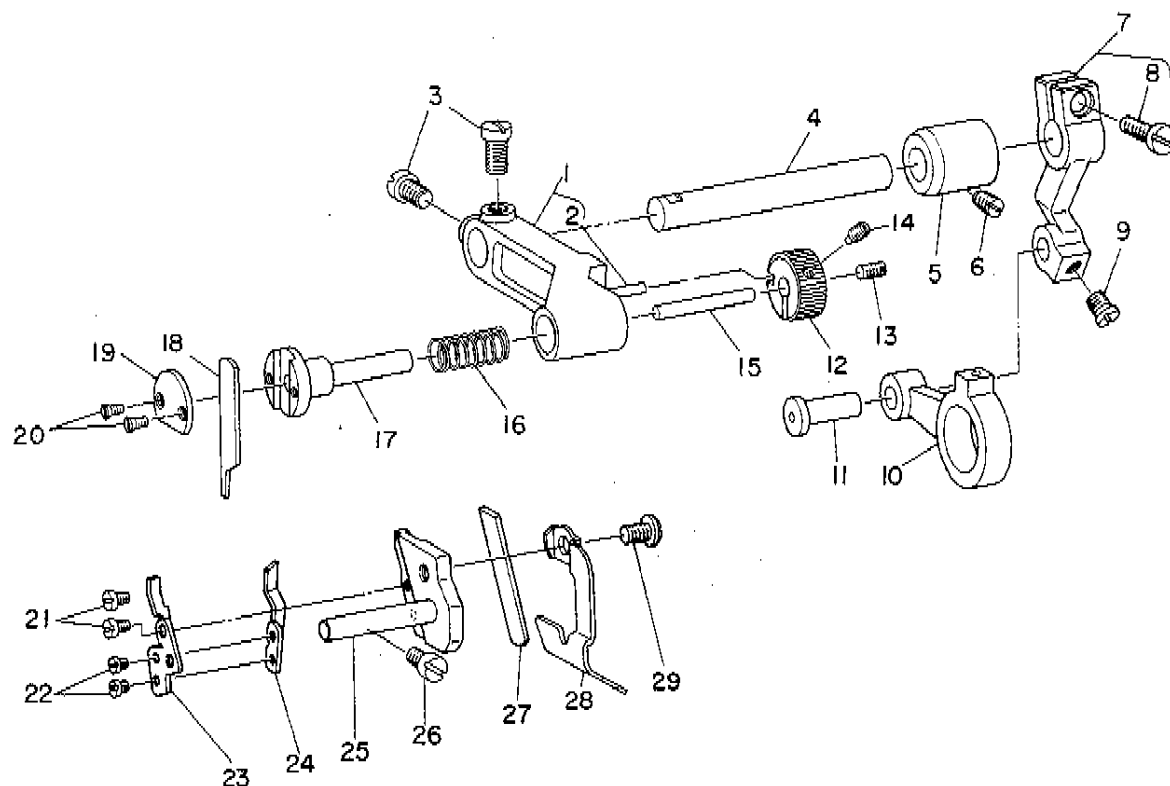
主軸・送り関係



Ref. No.	Note	Part No.	Description	E. C.	品 名	Amt. Req.
1		A1201-103-000	MAIN SHAFT		シャフト	1
1+1 *		A1206-102-000	C RING	A, 07/82	シャフト リング	1
2		PS-0400222-K0	SPRING PIN		スプリング ピン	1
3		A1204-102-000	MAIN SHAFT BUSHING, FRONT		シャフト ベアリング フロント	1
4 *		SS-8120740-SP	SCREW 3/16-28 L=7	D, 07/82	ボルト 3/16-28 L=7	-
5		A1205-102-000	MAIN SHAFT BUSHING, REAR		シャフト ベアリング リア	1
6		SS-8120740-SP	SCREW 3/16-28 L=7	D, 08/82	ボルト 3/16-28 L=7	-
7		A1202-102-00A	HAND WHEEL		ハンドル	1
8		WP-0451016-SP	WASHER 4.5X20X1		ワッシャー 4.5X20X1	1
9		SS-6111140-SP	SCREW 11/64-40 L=11		ボルト 11/64-40 L=11	1
10		A1610-102-000-A	FEED ROCKER ARM		スライダ ロックアーム	1
11		A1614-102-000	FEED ROCKER SHAFT		スライダ シャフト	1
12		SS-7120910-SP	SCREW 3/16-28 L=9		ボルト 3/16-28 L=9	1
13		CS-0720818-SP	THRUST COLLAR ASM. D=7.24 W=8	D, 10/82	A1804-550-0A0-A	-
14		A1804-550-0A0-A	THRUST COLLAR ASM.	A, 10/82	スラスト コラー	1
15		SS-8110510-SP	SCREW 11/64-40 L=5	D, 10/82	SM-8050310-SS	-
16		SM-8050310-SS	SCREW MSX0.8 L=8	A, 10/82	ボルト MSX0.8 L=8	(2)
17		RE-0600900-K0	SNAP RING 6		スプリング リング 6	1
18		RC-0650811-K0	RETAINING RING 6.5		キャッチ リング 6.5	1
19		A1611-102-000	FEED BAR SHAFT		送り棒 シャフト	1
20		A1609-102-000	FEED ROCKER SHAFT CONNECTING ROD		スライダ シャフト ロックアーム	1
21		SD-0720701-SP	HINGE SCREW D=7.24 H=7		ジョイント ボルト D=7.24 H=7	1
22		WP-0451016-SP	WASHER 4.5X20X1		ワッシャー 4.5X20X1	1
23		A1606-102-000	STITCH DIAL STOPPER		ダイヤル ストップ	1
24		A1605-102-000	STITCH DIAL		ダイヤル	1
25		A1604-102-0A0	FEED REGULATING PIN ASM.		送り調節 ピン アセンブリ	1
26		A1608-102-000	FEED REGULATING GUIDE PIN		送り調節 ガイド ピン	(1)
27-1		A1601-102-000	FEED REGULATION CAM		送り調節 カム	1
27-2		SS-8110510-SP	SCREW 11/64-40 L=5		ボルト 11/64-40 L=5	2
28		A1603-102-0A0	FEED DRIVING LINK PIN ASM.	D, 10/82	ジョイント シャフト リンク ピン アセンブリ	-
29-1		A1603-102-000-A	FEED DRIVING LINK PIN	A, 10/82	ジョイント シャフト リンク ピン	1
29-2		SS-7091410-SP	SCREW 7/64-40 L=13.5	A, 10/82	ボルト 7/64-40 L=13.5	1
30		A1602-102-000	FEED DRIVING LINK		ジョイント シャフト リンク	1
31		A1612-103-000	FEED BAR	D, 10/82	送り棒	-
32		SS-6120740-SP	SCREW 3/16-28 L=7		ボルト 3/16-28 L=7	1
33		SS-6120740-SP	SCREW 3/16-28 L=7		ボルト 3/16-28 L=7	1
34		A1613-103-000	FEED DOG		送り止	1
35		SS-4080610-SP	SCREW 1/8-44 L=6.4		ボルト 1/8-44 L=6.4	2

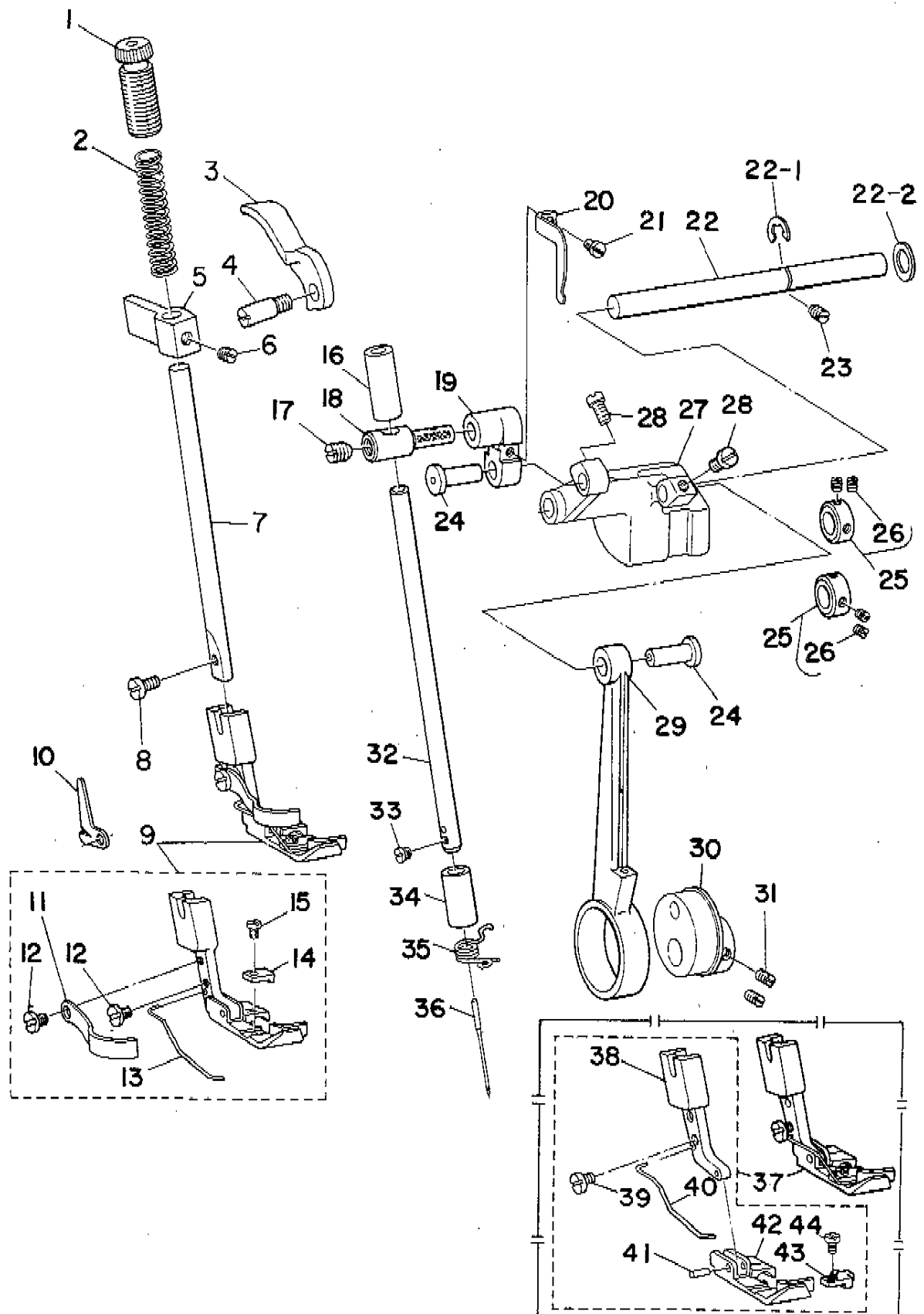
3. KNIFE COMPONENTS

メス関係



Ref. No.	Note (注記)	Part No. 品番	Description	E. C. 変更年月	品名	Amt. Req. 数量
1		A4105-102-0A0	UPPER KNIFE DRIVING ARM ASM.		ウッマス ヨ-ト-ウマ- ア	1
2		A1608-102-000	FEED REGULATING GUIDE PIN		フィッパツ カイロヒツ	(1)
3		SS-6150810-SP	SCREW 15/64-28 L=8		ヒツマシ 15/64-28 L=8	2
4		A4103-102-000	KNIFE DRIVING SHAFT		マス クト-ウマク	1
5		A4104-102-000	KNIFE DRIVING SHAFT BUSHING		マス クト-ウマクマシ	1
6		SS-8120740-SP	SCREW 3/16-28 L=7	0.08/82	ヒツマシ 3/16-28 L=7	-
7		A4102-103-0A0	UPPER KNIFE DRIVING ARM ASM.		ウッマス クト-ウマ- ア	1
8		SS-6121210-SP	SCREW 3/16-28 L=12		ヒツマシ 3/16-28 L=9	(1)
9		SS-6120740-SP	SCREW 3/16-28 L=7		ヒツマシ 3/16-28 L=7	1
10		A4101-103-000	UPPER KNIFE CRANK ROD		ウッマスロツト	1
11	*	A1403-102-8A0	CONNECTING PIN ASM.	0.11/82	A1403-102-B00	-
12	*	A1403-102-B00	CONNECTING PIN	A.11/82	ウッマス ヒツ	1
13		A4109-102-000	UPPER KNIFE STOPPER		ウッマス クリット	1
14		SS-8090710-SP	SCREW 9/64-40 L=7.0		ヒツマシ 9/64-40 L=7	1
15		SS-8090650-TP	SCREW 9/64-40 L=5.5		ヒツマシ 9/64-40 L=5.5	1
16		A4108-102-000	UPPER KNIFE PRESSER PIN		マスツエヒツ	1
17		A4111-102-000	UPPER KNIFE PRESSER SPRING		マスツエヒツ	1
18		A4107-102-000	UPPER KNIFE HOLDER		ウッマスヒツ-ヒツ	1
19		B4108-352-000	CEMENTED CARBIDE UPPER KNIFE		チツ-ウ ユッマス	1
20		A4110-102-000	UPPER KNIFE PRESSER PLATE		マスツエヒツ	1
21		SS-2060510-SP	SCREW 3/32-56 L=4.5	0.09/80	ヒツマシ 3/32-56 L=4.5	2
22		SS-7080510-SP	SCREW 1/8-44 L=4.5	A.09/80	ヒツマシ 1/8-44 L=4.5	-
23		SS-7080510-TP	SCREW 1/8-44 L=4.5		ヒツマシ 1/8-44 L=4.5	2
24		SS-6060340-SP	SCREW 3/32-56 L=2.5		ヒツマシ 3/32-56 L=2.5	2
25		A4116-103-000	NEEDLE GUARD A		ヒツマシ A	1
26		A4117-103-000	NEEDLE GUARD B		ヒツマシ B	1
27		A4112-103-000	LOWER KNIFE HOLDER	0.03/81	ヒツマシヒツ	1
28		SS-7120910-TP	SCREW 3/16-28 L=9	A.03/81	SS-7120910-SP	-
29		SS-7120910-SP	SCREW 3/16-28 L=9		ヒツマシ 3/16-28 L=9	1
30		A4113-102-000	LOWER KNIFE		ヒツマシ	1
31		A4115-103-000	LOWER KNIFE PRESSER PLATE		ヒツマシヒツ	1
32		SS-5110810-SP	SCREW 11/64-40 L=8		ヒツマシ 11/64-40 L=8	1

4. NEEDLE BAR & PRESSER FOOT COMPONENTS 針棒・押工關係



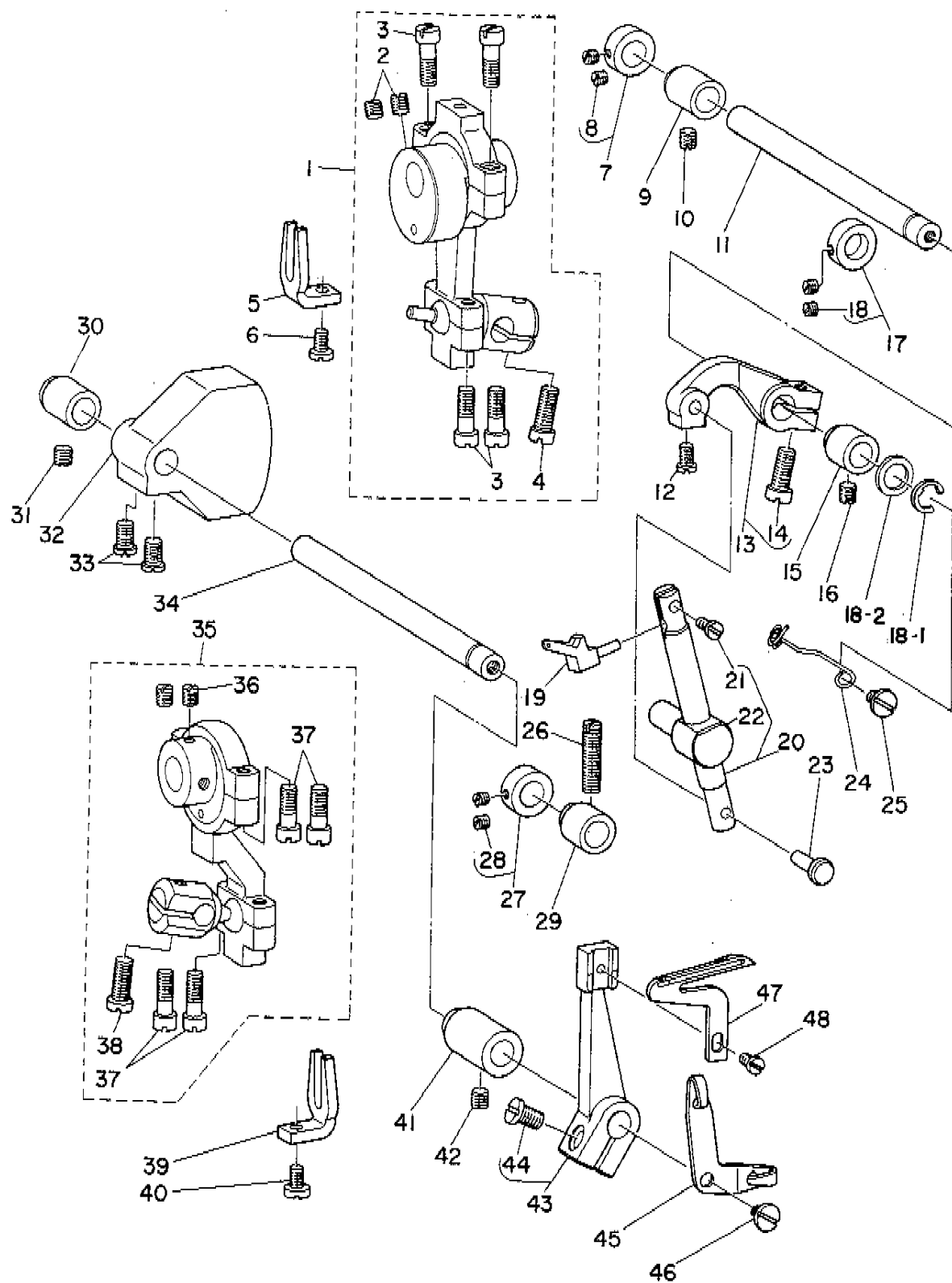
Ref. No.	Note	Part No. 品 番	Description	E. C. 変更年月	品 名	Amt. Req. 数量
1		A1509-001-000	PRESSER SPRING REGULATOR SCREW		オワエ チョービツナシ	1
2		A1506-102-000	PRESSER SPRING		オワエハナ	1
3		A1508-102-000	PRESSER FOOT LIFTING LEVER		オワエアケ レバー	1
4		B1508-352-000	STOPPER SCREW		ストッパ-ネジ	1
5		A1507-102-000	PRESSER BAR GUIDE BRACKET		オワエバー-ガイド	1
6		SS-8110320-SP	SCREW 11/64-40 L= 3.2		トメネジ 11/64-40 L=3.2	1
7		A1505-102-000	PRESSER BAR		オワエバー	1
8		SS-7090710-SP	SCREW 9/64-40 L= 6.8		トメネジ 9/64-40 L=6.8	1
9		A1501-103-000	PRESSER FOOT ASM.		オワエ フット	1
10	002	A1504-102-000	THREAD TRIMMER		イトトリハ	1
11		A1510-102-000	FINGER PROTECTOR		ハリカ-トリイダ	(1)
12		SS-6090520-SP	SCREW 9/64-40 L= 5.0		トメネジ 9/64-40 L=5	(2)
13		A1503-102-000	PRESSER SPRING, FRONT		マエ オワエハナ	(1)
14		A1509-103-000	STITCH TONGUE		イタスハリタテ	(1)
15		SS-6060410-TP	SCREW 3/32-56 L= 3.5		トメネジ 3/32-56 L=3.5	(1)
16		A1406-102-000	NEEDLE BAR BUSHING, UPPER	D.08/82	A1406-202-000	-
		A1406-202-000	NEEDLE BAR BUSHING	A.08/82	ハリカ-ダシ	1
17		SS-8150750-SP	SCREW 15/64-28 L=7		トメネジ 15/64-28 L=7	1
18		A1409-102-0A0	NEEDLE BAR CONNECTION ASM.		ハリカ-コネ クミ	1
19		A1408-104-000	NEEDLE BAR LINK		ハリカ-リンク	1
20		A1412-103-000	NEEDLE THREAD TAKE-UP LEVER		ハリイト テイクアップ	1
21		SS-6090620-SP	SCREW 9/64-40 L=6		トメネジ 9/64-40 L=6	1
22		A1405-102-000	NEEDLE BAR DRIVING SHAFT		ハリカ-ドライブシャフト	1
22-1		RE-0700000-K0	SNAP RING	A.07/82	ヒカタマワ	1
22-2		WP-0820516-SP	WASHER 11.6X8.2X0.6	A.07/82	ヒラタカネ 8.2X11.6X0.6	1
23		SS-8120740-SP	SCREW 3/16-28 L=7	M.08/82	トメネジ 3/16-28 L=7	1
24	*	A1403-102-AA0	CONNECTING PIN ASM.	D.11/82	A1403-102-A00	-
	*	A1403-102-A00	CONNECTING PIN	A.11/82	ヒンケツ ピン	2
25		CS-0790610-SP	THRUST COLLAR ASM.	D.07/82	スラストワッ ク	-
26		SS-8090440-SP	SCREW 9/64-40 L= 3.5		トメネジ 9/64-40 L=3.5	(4)
27		A1404-102-000	NEEDLE BAR CRANK		ハリカ-クランク	1
28		SS-6110710-TP	SCREW 11/64-40 L= 6.5		トメネジ 11/64-40 L=6.5	2
29		A1402-102-000	NEEDLE BAR CRANK ROD		ハリカ-クランクロッド	1
30		A1401-103-000	NEEDLE BAR ECCENTRIC CAM		ハリカ-エキセントリックカム	1
31		SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	2
32		A1410-102-000	NEEDLE BAR		ハリカ-	1
33		SS-4080320-TP	SCREW 1/8-44 L=3.4		トメネジ 1/8-44 L=3.4	1
34		A1407-102-000	NEEDLE BAR BUSHING, LOWER		ハリカ-シタメタル	1
35		A1411-103-000	NEEDLE BAR THREAD GUIDE		ハリカ-イタテンガイ	1
36		MBL-10081100	NEEDLE BLX1 #11		ハリ BLX1 #11	1
37	004	A1501-102-AA0	PRESSER FOOT ASM.	A.06/79	ワキフット オワエ フット	1
38	004	A1502-102-000	PRESSER FOOT	D.10/82	A1502-202-000	-
	004	A1502-202-000	PRESSER FOOT	A.10/82	オワエフット	(1)
39	004	SS-6090520-SP	SCREW 9/64-40 L= 5.0	A.06/79	トメネジ 9/64-40 L=5	(1)
40	004	A1503-102-000	PRESSER SPRING, FRONT	A.06/79	マエ オワエハナ	(1)
41	004	A1511-102-000	PIN	A.06/79	オワエ ピン	(1)
42	004	A1501-102-000	PRESSER FOOT	A.06/79	オワエ	(1)
43	004	A1509-102-A00	STITCH TONGUE	A.06/79	ワキフット-イタスハリタテ	(1)
44	004	SS-6060410-TP	SCREW 3/32-56 L= 3.5	A.06/79	トメネジ 3/32-56 L=3.5	(1)

Note (注記) 004 Special order part for hemming
002 For export

巻縫用特別注文部品
輸出用

5. LOOPER COMPONENTS

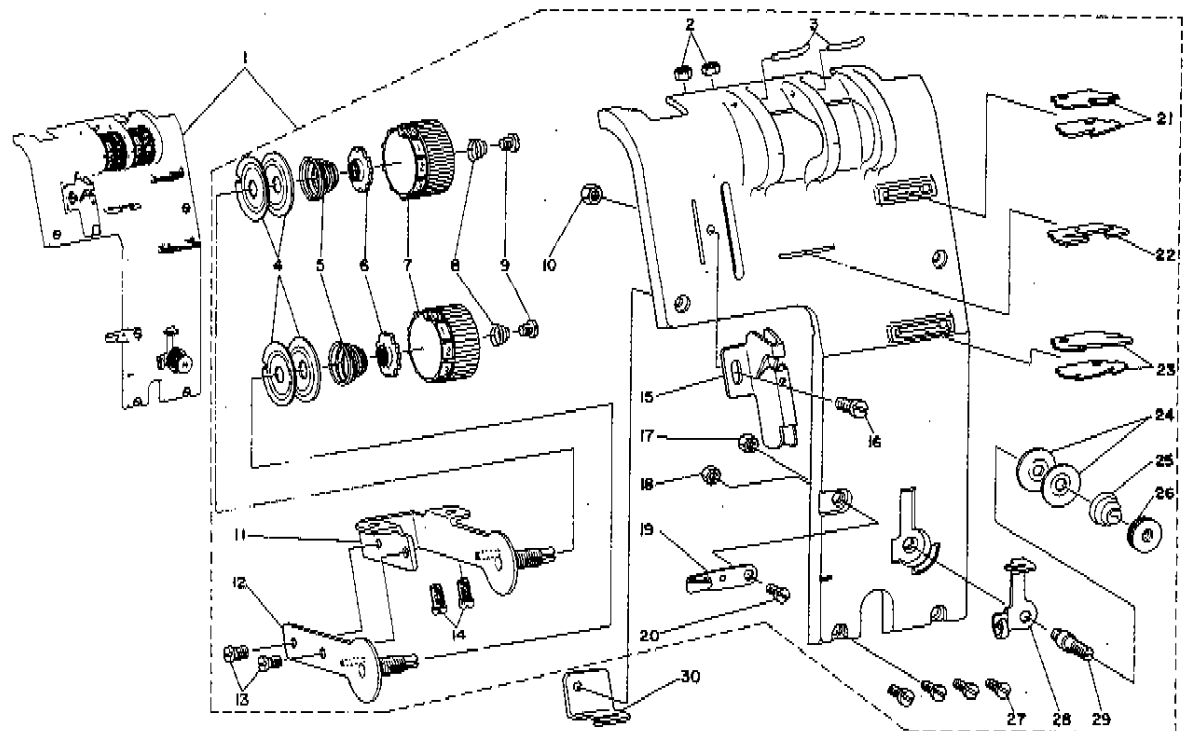
ルーパー関係



Ref. No.	Note	Part No. 品番	Description	E. C. 変更年月	品名	Amt. Req. 数量
1		A2502-103-0B0	UPPER LOOPER ROD ASM.		ワッフル-ハロッド クロ	1
2		SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	(2)
3		SS-7111310-SP	SCREW 11/64-40 L=12.8		ワッフルネジ 11/64-40 L=12.8	(4)
4		SS-6121210-SP	SCREW 3/16-28 L=12		ワッフルネジ 3/16-28 L=9	(1)
5	*	A2515-103-0A0	LOOPER ROD VIBRATION STOPPER	D.01/83	ル-ハロッド フリット	-
6	*	SS-6080610-TP	SCREW 1/8-44 L=6	D.01/83	ワッフルネジ 1/8-44 L=6	-
7		CS-0790610-SP	THRUST COLLAR ASM.		スラストワッフル	1
8		SS-8090410-SP	SCREW 9/64-40 L=3.5		トメネジ 9/64-40 L=3.5	(2)
9	*	A2506-103-000	LOOPER SHAFT BUSHING, REAR	D.11/82	ル-ハロッド クロネジ	-
10		A2506-202-000	LOOPER SHAFT BUSHING	A.11/82	ル-ハロッド クロネジ	1
11		SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	1
12		A2504-103-000	LOOPER SHAFT		ル-ハロッド	1
13		SS-6090620-SP	SCREW 9/64-40 L=6		ワッフルネジ 9/64-40 L=6	1
14		A2508-103-000	UPPER LOOPER SHAFT DRIVING ARM		ワッフル-ハロッド	1
15		SS-6121210-SP	SCREW 3/16-28 L=12		ワッフルネジ 3/16-28 L=9	(1)
16		A2505-103-000	UPPER LOOPER SHAFT BUSHING, FRONT		ワッフル-ハロッド クロネジ	1
17	*	SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	1
18	*	CS-0790610-SP	THRUST COLLAR ASM.	D.11/82	スラストワッフル	-
19	*	SS-8090410-SP	SCREW 9/64-40 L=3.5	D.11/82	トメネジ 9/64-40 L=3.5	-
19-1	*	RE-0700000-K0	SNAP RING 7	A.11/82	スナップリング 7	1
19-2	*	WP-0820516-SP	WASHER 11.6X8.2X0.6	A.11/82	ワッフルネジ 8.2X11.6X0.6	1
20		A2512-103-000	UPPER LOOPER		ワッフル-ハロッド	1
21		A2509-103-0A0	UPPER LOOPER SLIDE STUD ASM.		ワッフル-ハロッド スライドスタッド クロ	1
22		SS-6080710-SP	SCREW 1/8-44 L=6.5		ワッフルネジ 1/8-44 L=6.5	(1)
23		A2511-103-000	SLIDING SHAFT GUIDE		ワッフル-ハロッド	(1)
24		A2510-103-000	PIIN		ワッフル-ハロッド	1
25		A2519-103-000	LOOPER THREAD TAKE-UP A		ル-ハロッド	1
26		SS-6090630-SP	SCREW 9/64-40 L=6		トメネジ 9/64-40 L=6	1
27		SS-8152030-SP	SCREW 15/64-28 L=20		トメネジ 15/64-28 L=20	1
28		CS-0790610-SP	THRUST COLLAR ASM.		スラストワッフル	1
29		SS-8090410-SP	SCREW 9/64-40 L=3.5		トメネジ 9/64-40 L=3.5	(2)
30	*	A2505-103-000	UPPER LOOPER SHAFT BUSHING, FRONT		ワッフル-ハロッド クロネジ	1
31		A2506-103-000	LOOPER SHAFT BUSHING, REAR	D.11/82	ル-ハロッド クロネジ	-
32	*	A2506-202-000	LOOPER SHAFT BUSHING	A.11/82	ル-ハロッド クロネジ	1
33		SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	1
34		A2518-103-000	COUNTERWEIGHT		ワッフル-ハロッド クロネジ	1
35		SS-6120740-SP	SCREW 3/16-28 L=7		ワッフルネジ 3/16-28 L=7	2
36		A2504-103-000	LOOPER SHAFT		ル-ハロッド	1
37		A2514-103-0B0	LOWER LOOPER ROD ASM.		ワッフル-ハロッド クロ	1
38		SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	(2)
39		SS-7111310-SP	SCREW 11/64-40 L=12.8		ワッフルネジ 11/64-40 L=12.8	(4)
40		SS-6121210-SP	SCREW 3/16-28 L=12		ワッフルネジ 3/16-28 L=9	(1)
41	*	A2515-103-0C0	LOOPER ROD VIBRATION STOPPER	D.01/83	ル-ハロッド フリット	-
42	*	SS-6080610-TP	SCREW 1/8-44 L=6	D.01/83	ワッフルネジ 1/8-44 L=6	-
43		A2507-103-000	LOWER LOOPER SHAFT BUSHING, FRONT		ワッフル-ハロッド クロネジ	1
44		SS-8110510-SP	SCREW 11/64-40 L=5		トメネジ 11/64-40 L=5	1
45		A2516-103-000	LOWER LOOPER HOLDER		ワッフル-ハロッド	1
46		SS-6121210-SP	SCREW 3/16-28 L=12		ワッフルネジ 3/16-28 L=9	(1)
47		A2520-103-000	LOOPER THREAD TAKE-UP B		ル-ハロッド	1
48		SS-6090630-SP	SCREW 9/64-40 L=6		ワッフルネジ 9/64-40 L=6	1
49		A2517-103-000	LOWER LOOPER		ワッフル-ハロッド	1
50		SS-6080610-SP	SCREW 1/8-44 L=6	D.03/81	SS-6080610-TP	-
51		SS-6080610-TP	SCREW 1/8-44 L=6	A.03/81	ワッフルネジ 1/8-44 L=6	1

6. THREAD TENSION COMPONENTS

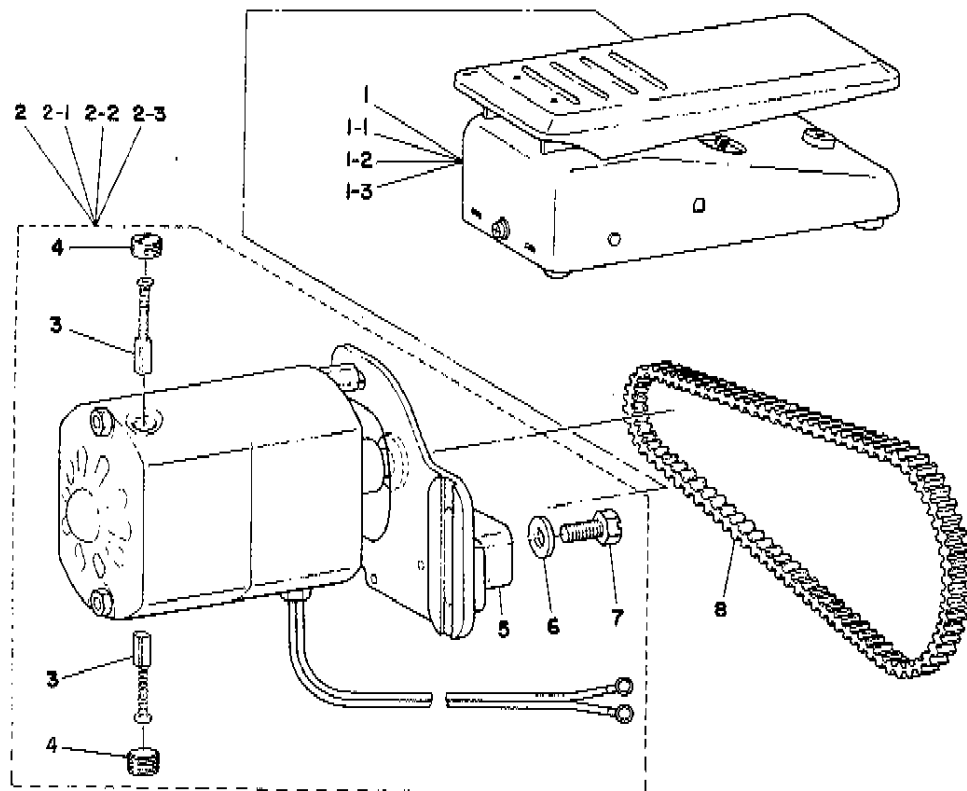
糸調子関係



Ref. No.	Note	Part No. 品番	Description	E. C. 変更年月	品名	Amt. Req. 数量
1		A3101-103-0A0	FRONT COVER ASM.		フロントカバー アス	1
2		NS-6110310-SP	NUT 11/64-40		ロツカクツツ 11/64-40	(2)
3		A3503-102-000	TENSION THREAD GUIDE		イトチヨ-シ イトアツタイ	(2)
4		B3126-352-000	TENSION DISC		イトチヨ-シ ヴァ	(4)
5		A3108-103-000	NEEDLE THREAD TENSION SPRING		ウツイトチヨ-シ ハナ	(2)
6		A3134-753-000	NEEDLE THREAD TENSION NUT		イトチヨ-シ ナツ	(2)
7		A3107-103-000	NEEDLE THREAD TENSION KNOB		ウツイトチヨ-シ ヴァ	(2)
8		B3142-123-000	CHAIN LOOPER THREAD TENSION SPRING		イトアツタイ ヴァ	(2)
9		SS-6090520-SP	SCREW 9/64-40 L= 5.0		ヒラネシ 9/64-40 L= 5	(2)
10		NS-6090310-SP	NUT 9/64-40		ロツカクツツ 9/64-40	(1)
11		A3505-103-0B0	THREAD TENSION POST A ASM.		イトチヨ-シ ハナ-ツイ A ヴァ	(1)
12		A3506-103-0A0	THREAD TENSION POST B ASM.		イトチヨ-シ ハナ-ツイ B ヴァ	(1)
13		SS-7110540-SP	SCREW 11/64-40 L= 5		マルヒラネシ 11/64-40 L= 5	(2)
14		SS-7110810-SP	SCREW 11/64-40 L= 8.0		マルヒラネシ 11/64-40 L= 8	(2)
15		A3103-103-000	NEEDLE THREAD GUIDE B		ハライトアツタイ B	(1)
16		SS-7090710-SL	SCREW 9/64-40 L= 8.5	0.04/79	SS-7090710-SL	-
17		SS-7090710-SL	SCREW 9/64-40 L= 6.8	A.04/79	マルヒラネシ 9/64-40 L= 6.8	(1)
18		NS-6090310-SP	NUT 11/64-40		ロツカクツツ 11/64-40	(1)
19		A3105-103-000	UPPER LOOPER THREAD GUIDE		ロツカクツツ 9/64-40	(1)
20		SS-7090910-SL	SCREW 9/64-40 L= 8.5	0.04/79	SS-7090910-SL	-
21		SS-7090710-SL	SCREW 9/64-40 L= 6.8	A.04/79	マルヒラネシ 9/64-40 L= 6.8	(1)
22		A3504-102-000	LOOPER THREAD GUIDE		ル-ハ イトアツタイ	(2)
23		A3102-103-000	NEEDLE THREAD GUIDE A		ハライトアツタイ A	(1)
24		A3504-104-000	LOOPER THREAD GUIDE		ル-ハ イトアツタイ	(2)
25		B3214-047-000	BOBBIN WINDER TENSION DISC		イトチヨ-シ ヴァ	(2)
26		B3218-232-000	BOBBIN WINDER TENSION SPRING		イトチヨ-シ ハナ	(1)
27		B3216-047-000	BOBBIN WINDER TENSION NUT		イトチヨ-シ ナツ	(1)
28		SS-7090910-SL	SCREW 9/64-40 L= 8.5		マルヒラネシ 9/64-40 L= 8.5	(4)
29		A3106-103-000	TENSION THREAD GUIDE		シタル-ハ イトチヨ-シ イトアツタイ	(1)
30		B3219-232-000	BOBBIN WINDER TENSION POST		イトマキ イトチヨ-シ ハナ	(1)
31		A3104-103-000	NEEDLE THREAD GUIDE C		ハライトアツタイ C	1

7. MOTOR COMPONENTS

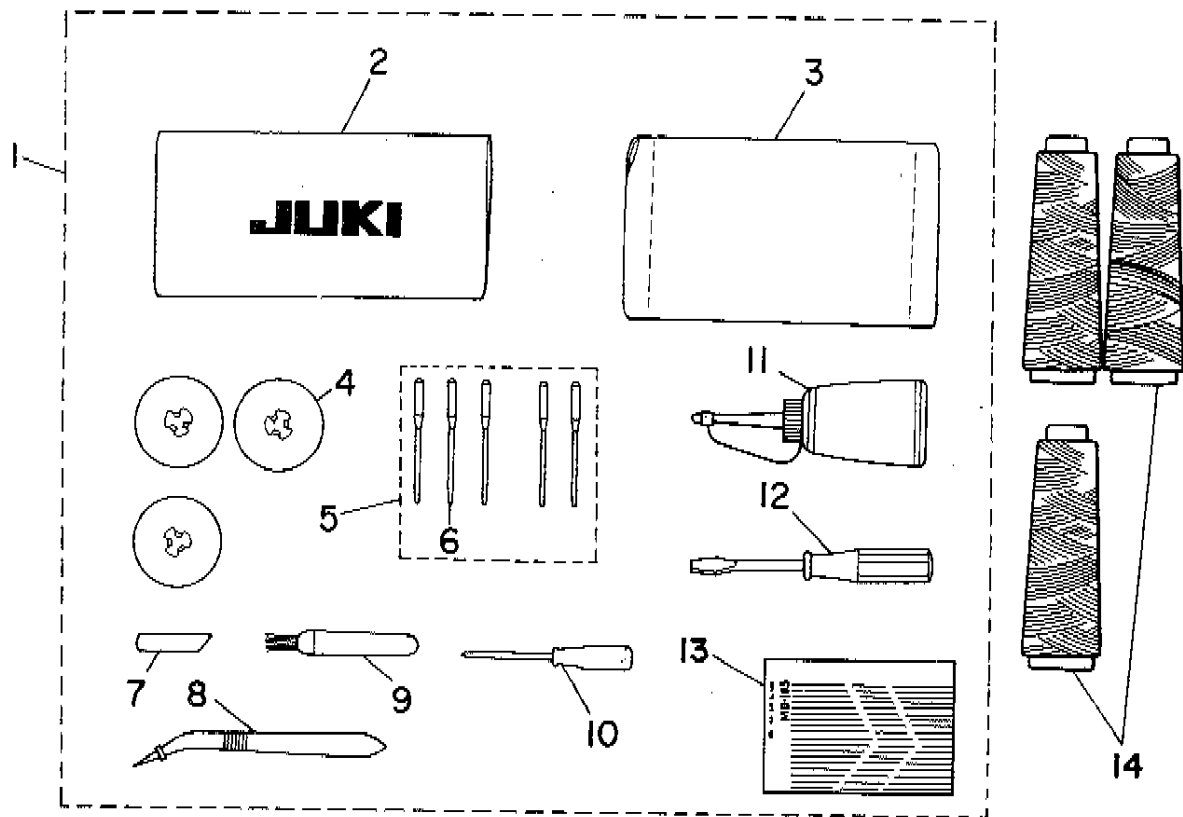
モーター関係



Ref. No.	Note	Part No. 品 番	Description	E. C. 変更年月	品 名	Amt. Req. 数量
1		MSA-172483J0	CONTROLLER ASM, 200/230V		コントローラ 200/230V	1
1-1		MSA-1725P3J0	CONTROLLER ASM, FOR USA	A.01/79	コントローラ	1
1-2		MSA-1725L4N0	CONTROLLER ASM, FOR W.GERMANY	A.01/79	コントローラ	1
1-3		MSA-1727K4H0	CONTROLLER ASM, FOR AUSTLARIA	A.01/79	コントローラ	1
2		MSA-172402J0	MOTOR ASM, 200/230V		モータ 2匹 (200V) 200/230V	1
2-1		MSA-172302U0	MOTOR ASM, FOR USA	A.01/79	モータ	1
2-2		MSA-172503F0	MOTOR ASM, FOR W.GERMANY	A.01/79	モータ	1
2-3		MSA-172703F0	MOTOR ASM, FOR AUSTLARIA	A.01/79	モータ	1
3		MSA-01071M06	CARBON BRUSH		カーボンブラシ	(2)
4		MSA-01071M07	CARBON BRUSH CAP		ブラシキャップ	(2)
5		A6001-103-J00-A	TERMINAL NO.32 200/230V		ターミナル	(1)
6		WP-0751616-SC	WASHER 7.5X14X1.6		ワッシャー 7.5x14x1.6	(1)
7		SS-9181950-SC	BOLT 9/32 L=19		6カクネット 9/32 L=19	(1)
8		A7108-001-000	BELT		ベルト	1

8. ACCESSORIES COMPONENTS

付属品関係

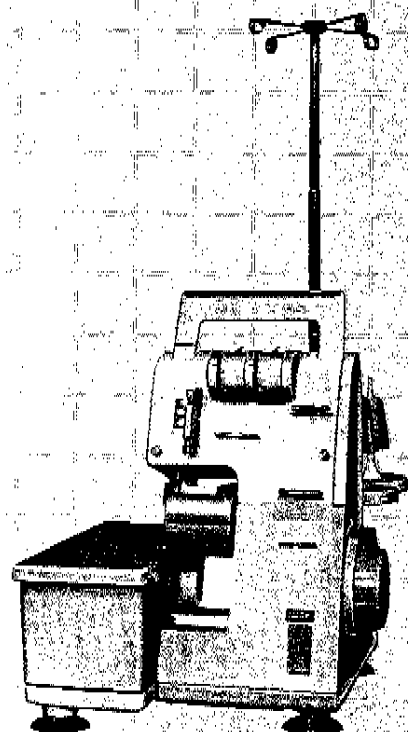


Ref. No.	Note	Part No. 品 番	Description	E. C. 変更年月	品 名	Amt. Req. 数量
1		A9101-103-0A0	ACCESSORY BOX ASM.		フソクビンパコ クミ	1
2		A9102-102-000	VINYL COVER		トーフ ビニールカバー	-
3	*	A9101-001-00A	ACCESSORY BOX	0.10/82	A9109-102-000	(1)
4	*	A9109-102-000	VINYL BAG	A.10/82	フソクビンパコ	(1)
5		A1114-957-000	SPOOL HOLDER DISC		イトマキ アタカ	(3)
6		MBL-100B1105	NEEDLE ASM.		ハリ BLX1 #11	(1)
7		MBL-100B1100	NEEDLE BLX1 #11		ハリ BLX1 #11	(5)
8		A4113-102-000	LOWER KNIFE		シタメス	(1)
9	*	B9204-352-000	TWEEZERS		ピンセット	(1)
10	*	A9105-102-000	BRUSH	0.10/82	ソノダヨ フタシ	-
11	*	B9106-804-000	SCREW DRIVER, SMALL	0.09/81	A9107-102-000	-
12	*	A9107-102-000	SCREW DRIVER, SMALL	0.10/82	ドライバー - ショ-	-
13		A9104-102-0A0	OILER WITH OIL ASM.		アブラサシ クミ	(1)
14		A9103-102-000	SCREW DRIVER, LARGE		ドライバー - (チユ-)	(1)
15		AE-103050B-0A	INSTRUCTION BOOK		シヨウ セツメイシヨ (エイブツ)	(1)
16	003	A9106-102-000	CONE SPOOL	A.04/79	スパン スピット	3

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AE-1030508-0A	11	13	A1608-102-000	4	2	83214-047-000	9	24	SS-6121050-SP	2	33
A1103-102-000-A	2	28	A1609-102-000	3	16	83216-047-000	9	26	SS-6121210-SP	2	10
A1103-102-000-B	2	28-1	A1610-102-000-A	3	10	83218-252-000	9	25	SS-6121710-SP	2	12
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A1105-102-00A	2	11	A1612-103-000	3	29	83312-012-000	2	2-1	SS-6121210-SP	4	8
A1106-103-000	2	17	A1613-103-000	3	32	84108-352-000	4	18	SS-6121210-SP	6	4
A1107-102-000	2	18	A1614-102-000	3	11	89106-804-000	11	10	SS-6121210-SP	8	14
A1108-102-000-A	2	26	A1804-550-0A0-A	3	13	89204-352-000	11	8	SS-6121210-SP	8	38
A1108-102-000-B	2	26-1	A2502-103-000	8	1				SS-6121210-SP	8	44
A1109-102-000	2	16	A2504-103-000	8	11				SS-6150810-SP	4	3
A1110-103-000	2	38	A2504-103-000	8	34	C9-2020000-00	2	8	SS-6151920-SP	2	29
A1111-102-000	2	34	A2505-103-000	8	15	CS-0720818-SP	3	13	SS-7080510-SP	4	21
A1112-102-000	2	37	A2505-103-000	8	29	CS-0790610-SP	6	25	SS-7080510-TP	4	21
A1113-102-000	2	35	A2506-103-000	8	9	CS-0790610-SP	8	7	SS-7090710-SL	2	14
A1114-102-000	2	42	A2506-103-000	8	30	CS-0790610-SP	8	17	SS-7090710-SL	9	16
A1114-103-000	2	42	A2506-202-000	8	9	CS-0790610-SP	8	27	SS-7090710-SL	9	20
A1114-957-800	11	4	A2506-202-000	8	30				SS-7090710-SP	6	8
A1115-102-000	2	39	A2507-103-000	8	41				SS-7090910-SL	2	44
A1116-104-0A0	2	5	A2508-103-000	8	13	MBL-10081100	6	36	SS-7090910-SL	9	16
A1116-104-000	2	5	A2509-103-0A0	8	20	MBL-10081100	11	6	SS-7090910-SL	9	20
A1118-102-000	2	7	A2510-103-000	8	23	MBL-10081100	11	5	SS-7090910-SL	9	27
A1120-202-000	2	2-2	A2511-103-000	8	22	MSA-01071H07	10	4	SS-7091410-SL	2	45
A1121-103-A00	2	19-1	A2512-103-000	8	19	MSA-01071H07	10	4	SS-7091410-SP	3	27-2
A1121-103-000	2	19	A2514-103-080	8	35	MSA-1723F3J0	10	1-1	SS-7110510-SP	2	27
A1123-102-000	2	1	A2515-103-000	8	5	MSA-172302U0	10	2-1	SS-7110510-SP	2	35
A1124-102-000	2	3	A2515-103-000	8	39	MSA-1724B3J0	10	1	SS-7110540-SP	9	13
A1126-102-000	2	9	A2516-103-000	8	43	MSA-1724Q2J0	10	2	SS-7110510-SP	9	14
A1127-104-000	2	4	A2517-103-000	8	47	MSA-1725L4H0	10	1-2	SS-7110910-SP	2	41
A1128-102-000	2	2	A2518-103-000	8	32	MSA-1725Q3F0	10	2-2	SS-7111310-SP	8	3
A1129-102-000	2	30	A2519-103-000	8	24	MSA-1727K4H0	10	1-3	SS-7111310-SP	8	37
A1130-102-000	2	36	A2520-103-000	8	45	MSA-1727Q3F0	10	2-3	SS-7120910-SP	3	12
A1131-103-000	2	24	A3101-103-0A0	9	1				SS-7120910-SP	4	26
A1133-102-000	2	46	A3102-103-000	9	22				SS-7120910-TP	4	26
A1134-102-000	2	15	A3103-103-000	9	15	NS-6090310-SP	2	13	SS-8090410-SP	6	24
A1201-103-000	3	1	A3104-103-000	9	30	NS-6090310-SP	9	10	SS-8090410-SP	8	8
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A1403-102-AA0	6	24	A3504-102-000	9	21				SS-8110510-SP	3	26
A1403-102-A00	6	24	A3504-104-000	9	23	RC-0650811-K0	3	16	SS-8110510-SP	6	31
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A1407-102-000	6	34	A4105-102-0A0	4	1	SS-2060510-SP	4	20	SS-8120740-SP	3	4
A1408-104-000	6	19	A4106-102-000	2	21	SS-4080320-TP	6	33	SS-8120740-SP	3	6
A1409-102-A00	6	18	A4107-102-000	4	17	SS-4080610-SP	3	33	SS-8120740-SP	4	6
A1410-102-000	6	32	A4108-102-000	4	15	SS-5110810-SP	2	25	SS-8120740-SP	6	23
A1411-103-000	6	35	A4109-102-000	4	12	SS-5110810-SP	4	29	SS-8150750-SP	6	17
A1412-103-000	6	20	A4110-102-000	4	19	SS-6060340-SP	4	22	SS-8152030-SP	8	26
A1501-102-AA0	6	37	A4111-102-000	4	16	SS-6060410-TP	6	15	SS-9181950-SC	10	7
A1501-102-000	6	42	A4112-103-000	4	25	SS-6060410-TP	6	44			
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A1502-102-000	6	38	A4113-102-000	11	7	SS-6080610-TP	8	6	WP-0451016-SP	3	8
A1502-202-000	6	38	A4115-103-000	4	28	SS-6080610-TP	8	40	WP-0451016-SP	3	20
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A1505-102-000	6	7	A7108-001-000	10	8	SS-6090520-SP	6	12	WP-0820516-SP	8	18-2
A1506-102-000	6	2	A9101-001-80A	11	3	SS-6090520-SP	6	39			
A1507-102-000	6	5	A9101-103-0A0	11	1	SS-6090620-SP	9	9			
A1508-102-000	6	3	A9102-102-000	11	2	SS-6090620-SP	6	21			
A1509-001-000	6	1	A9103-102-000	11	12	SS-6090620-SP	8	12			
A1509-102-A00	6	43	A9104-102-0A0	11	11	SS-6090630-SP	8	25			
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A1510-102-000	6	11	A9106-102-000	11	14	SS-6110480-SL	2	20			
A1511-102-000	6	41	A9107-102-000	11	10	SS-6110710-TP	6	28			
A1601-102-000	3	25	A9109-102-000	11	3	SS-6111140-SP	3	9			
A1602-102-000	3	28				SS-6120740-SP	3	30			
A1603-102-0A0	3	27				SS-6120740-SP	3	31			
A1603-102-000-A	3	27-1	B1158-571-000	2	15	SS-6120740-SP	4	9			
A1604-102-0A0	3	23	B1508-352-000	6	4	SS-6120740-SP	8	33			
A1605-102-080	3	22	B2615-232-000	2	6						
A1606-102-000	3	21	B3126-352-000	9	4						
A1608-102-000	3	24	B3149-123-800	9	8						



Model MO-103

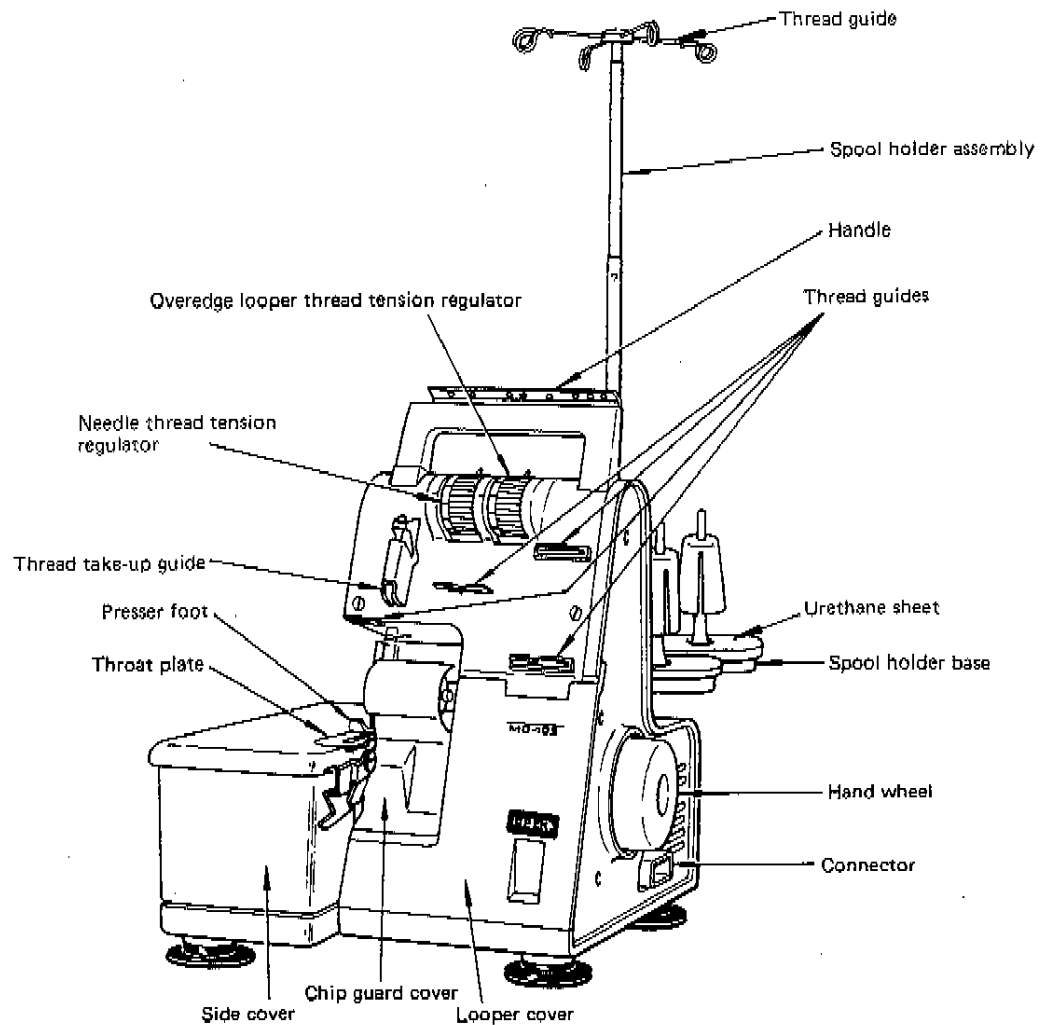
1-Needle, 3-Thread OVER-LOCK Sewing machine Instruction book

OVER-LOCK SEWING MACHINE Model MO-103 (1 needle, 3 threads) is one of the most versatile machine to overcast the edges of various materials from light-weight fabric such as lawn, georgette, tricot and woollens to heavy-weight ones such as cotton, jersey and denim including all other medium-weight fabrics. Before operating your MO-103, carefully read through this INSTRUCTION BOOK to acquire the correct method of operation. Please do not hesitate to enquire of our agent in your area for further details of questions.

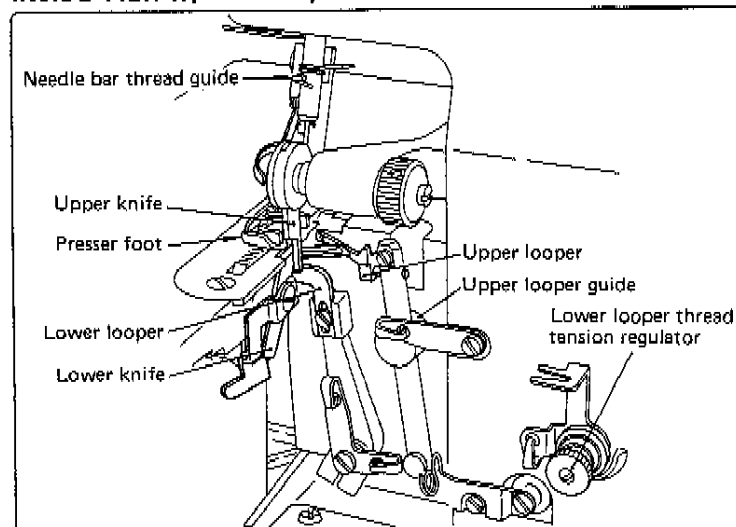
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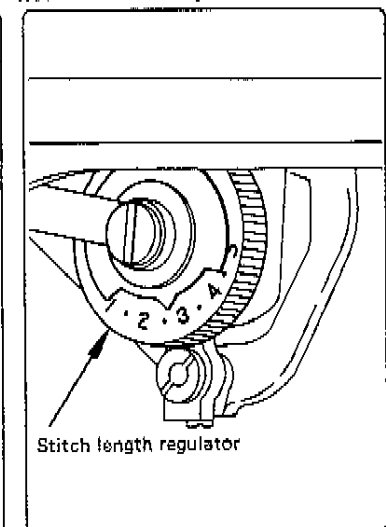
NAMES OF MAIN COMPONENTS



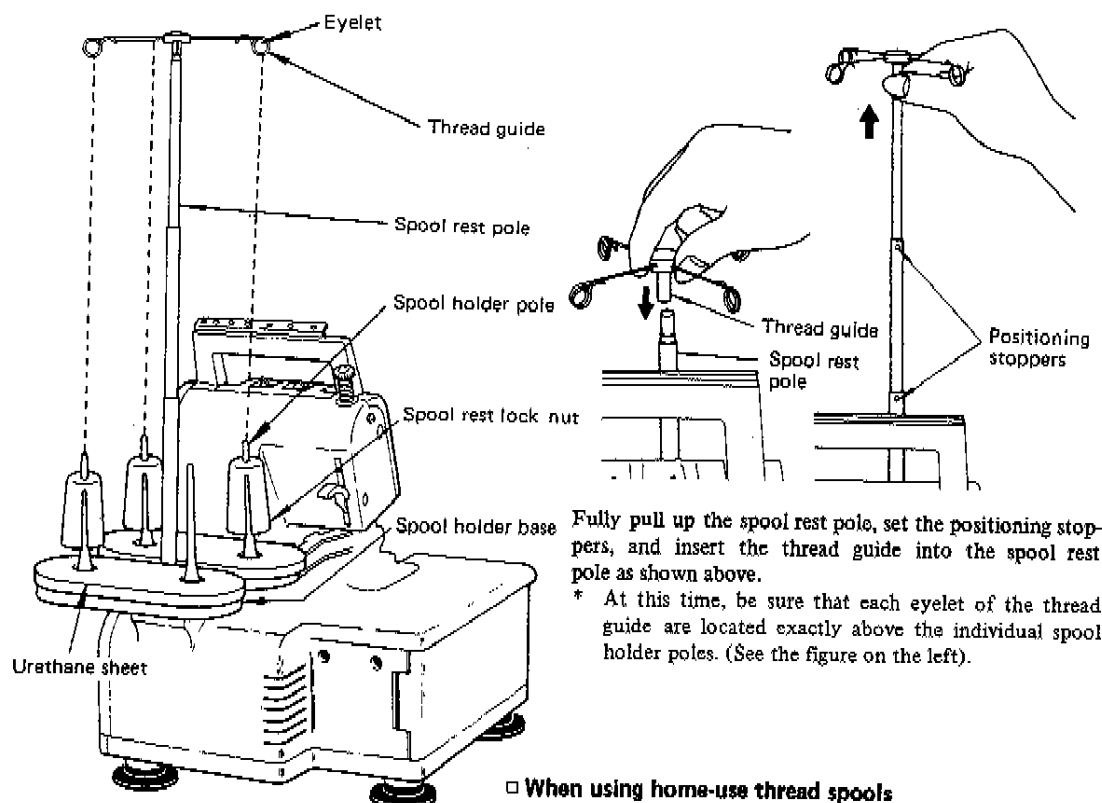
INSIDE VIEW (open the looper cover)



INSIDE VIEW (open the side cover)



HOW TO SET UP THE SPOOL HOLDER

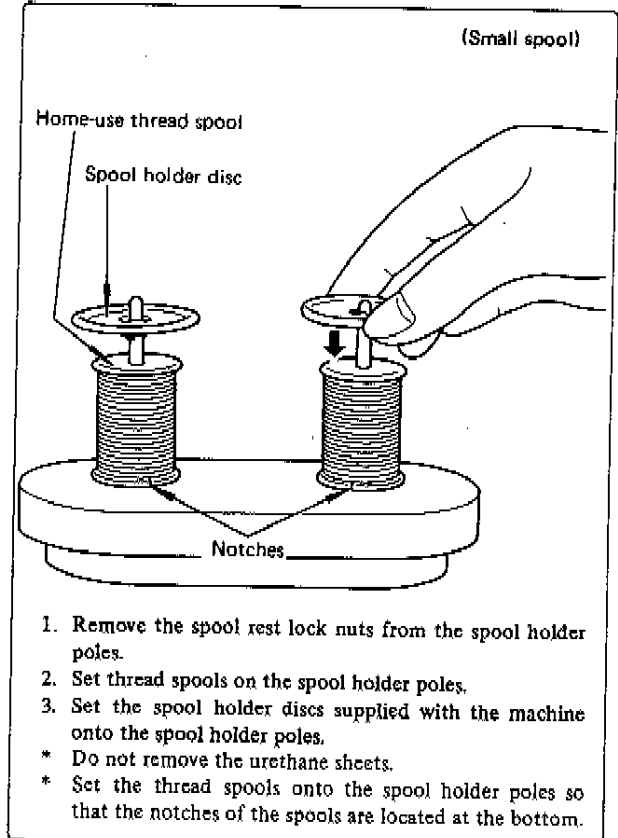
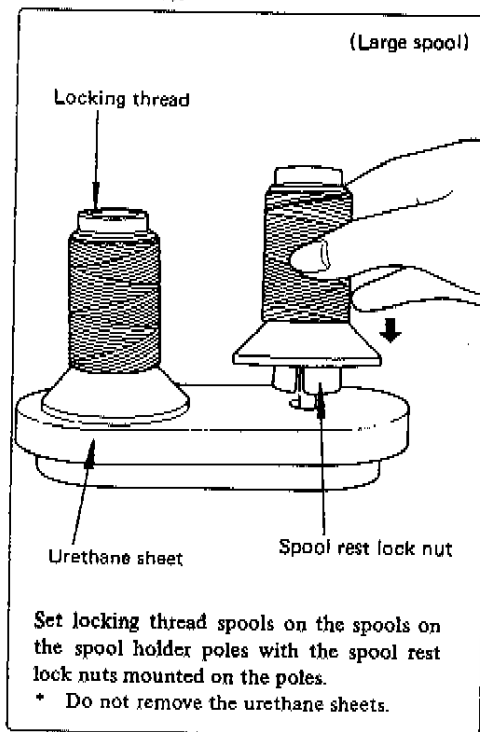


Fully pull up the spool rest pole, set the positioning stoppers, and insert the thread guide into the spool rest pole as shown above.

* At this time, be sure that each eyelet of the thread guide are located exactly above the individual spool holder poles. (See the figure on the left).

□ When using home-use thread spools

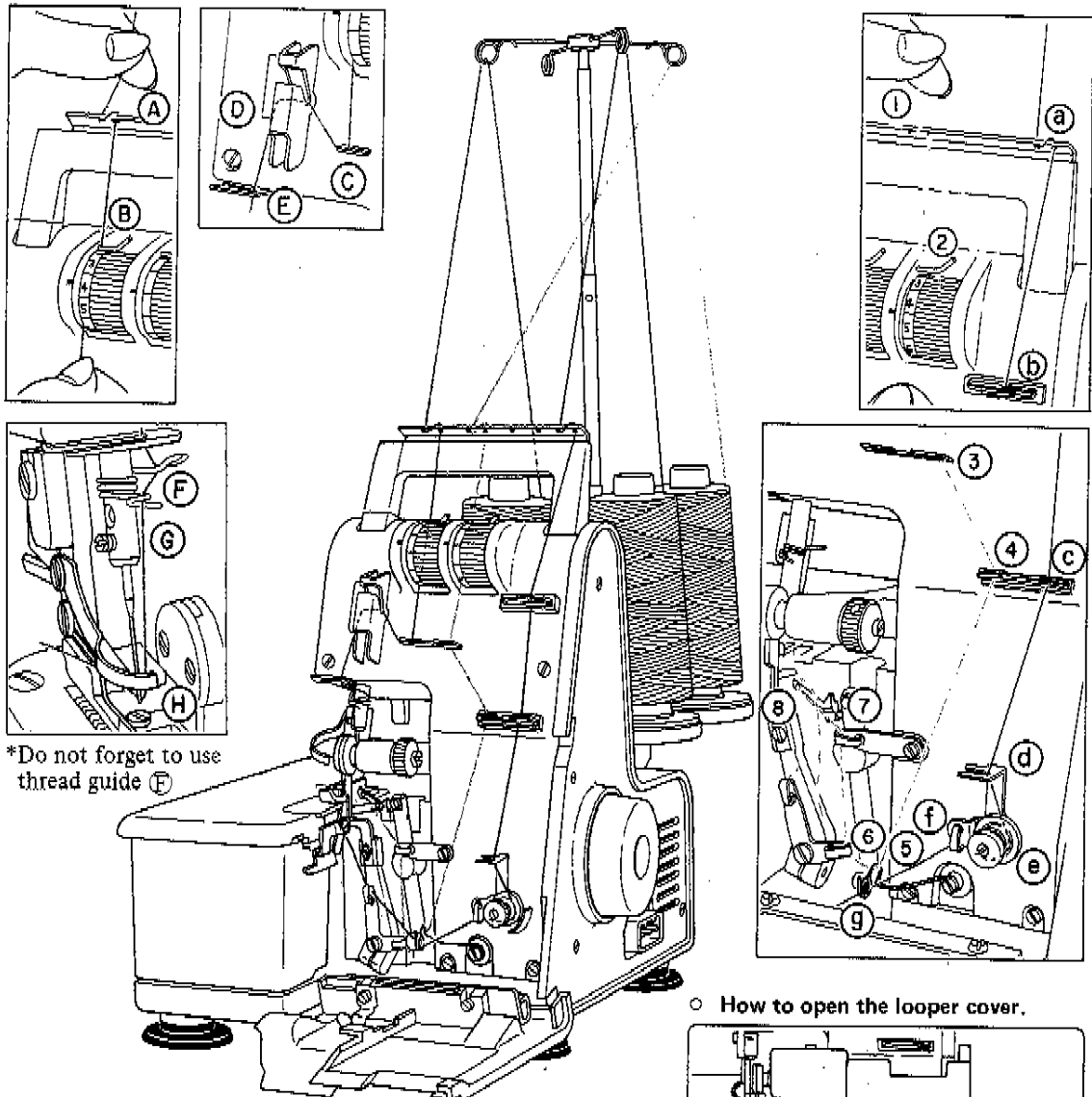
□ When using overlocking thread (It is recommended to use overlocking thread for this machine).



HOW TO THREAD THE MACHINE

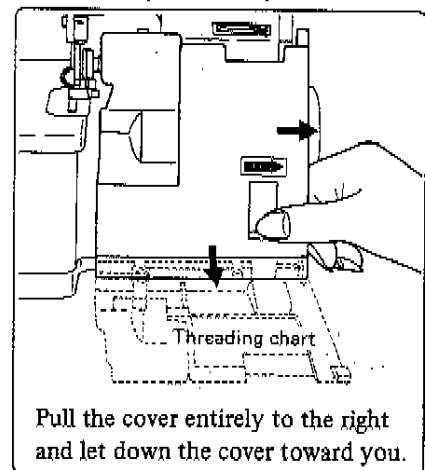
Thread the machine carefully in the correct order, in order to prevent the thread from breaking or making a wrong stitch.

Use a threading chart supplied with the machine or the chart drawn on the inside of the looper cover.

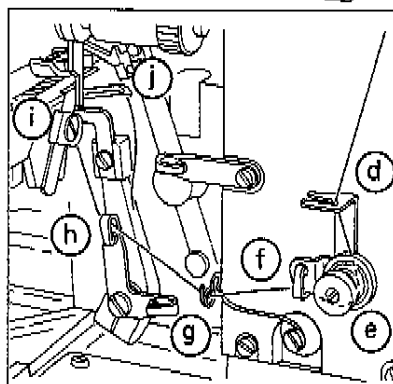


*Do not forget to use thread guide **F**.

○ How to open the looper cover.



Pull the cover entirely to the right and let down the cover toward you.

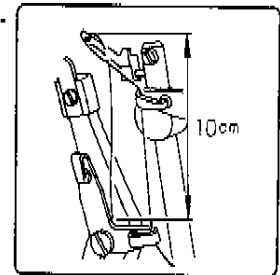


*Refer to 2 of page 4 for the details of thread guides **i** and **j**.

Thread the machine according to the order as shown in the illustration of page 3.

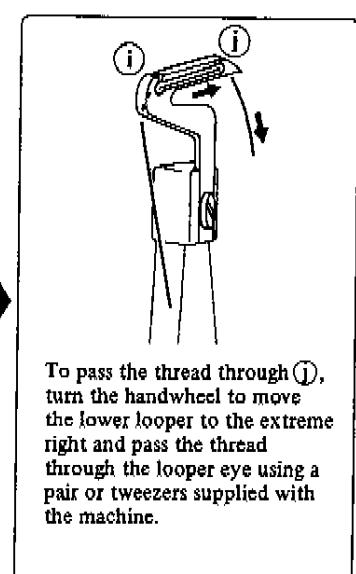
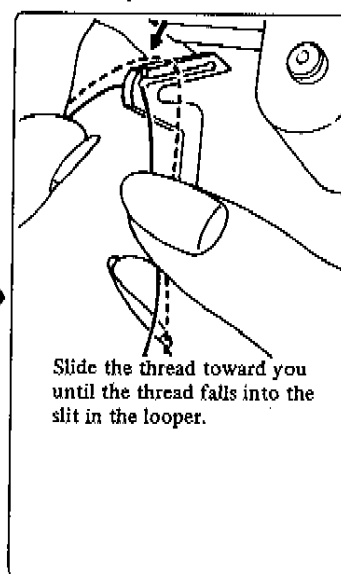
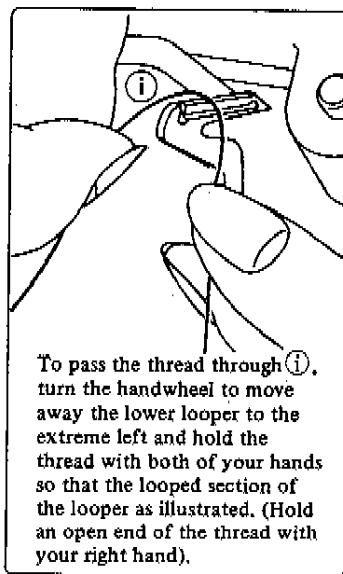
1. Firstly thread the machine with an upper looper thread (off orange-color) in the numerical order. Leave the end of a thread about 10 cm (4") trailing from the looper eye.

* Use a pair of tweezers supplied with the machine to pass the thread through the looper eye ⑧.

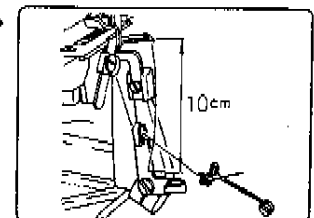


2. Secondary, thread the machine with a lower looper thread (orange-color) in the order of ③ to ①.

Pass the thread through ① and ① in the way as illustrated below;

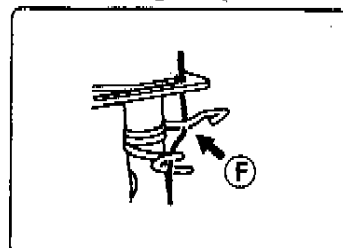


Leave the end of the thread about 10 cm (4") trailing from the looper eye. →

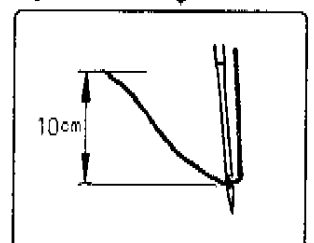


3. Lastly thread the machine with a needle thread (gray-color) in the order of ④ to ⑥.

Do not forget to pass the thread through ⑤.



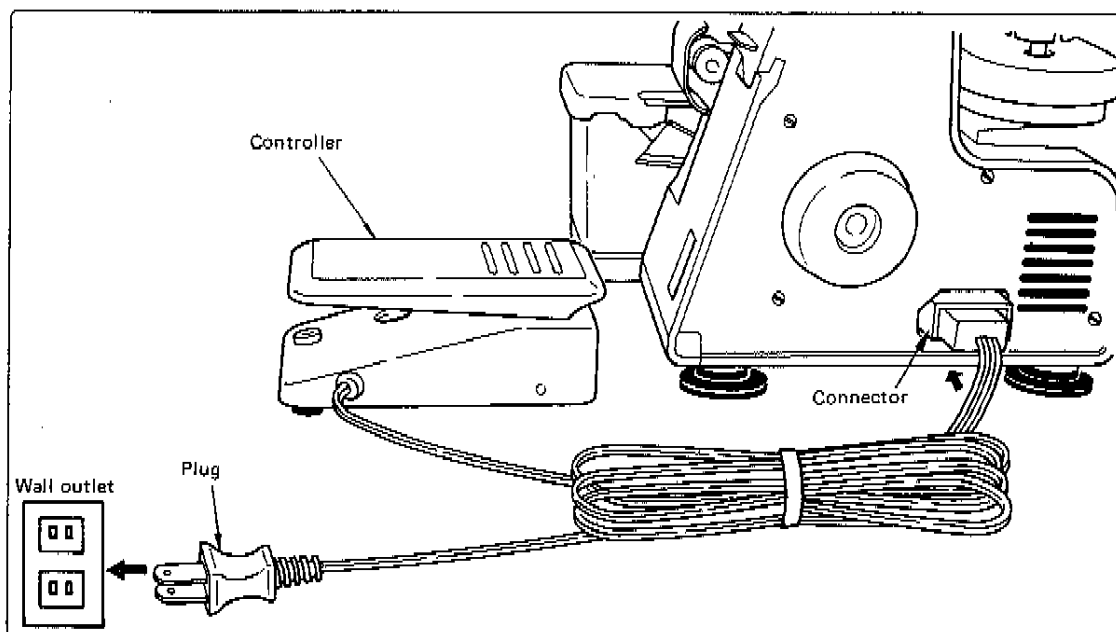
Leave the end of the thread about 10 cm (4") trailing from the needle eye.



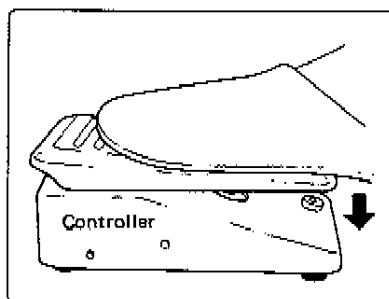
HOW TO OPERATE THE MACHINE

When operating the machine, always place it horizontally on a flat desk or table.

Plug the connector of the controller cord into the receptacle of the main body as illustrated below. Then connect the main plug to a wall outlet.



□ How to use the controller



1. Place your foot on the controller as illustrated.
2. You can change the sewing speed by treading the actuator pedal of controller; sewing speed is increased as you press it downwards.

□ Cautions in using the motor

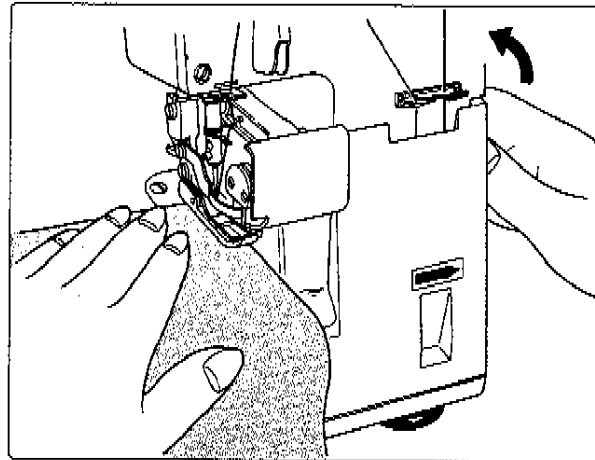
1. Note that the handwheel (pulley) of this machine rotates in the opposite direction from that of an ordinary home sewing machine because of the different motor used.
2. The controller and motor will get somewhat hot after continuous operation of the machine, however, this will do no harm to the performance of the machine.
3. Be careful not to cover the vents of the motor or controller with fabrics or paper during operation.
4. While the machine is running, you may see small sparks through the vent of the pulley. However, you need not to worry about these sparks since they are normal sparks produced by the rectifying action taken between the carbon brushes and commutators.

□ When you do not use the machine

- Be sure to disconnect the plug from the wall outlet.
At this time, always hold the plug when disconnecting it from the wall outlet.
- Do not place a thing on the controller.

HOW TO USE THE MACHINE

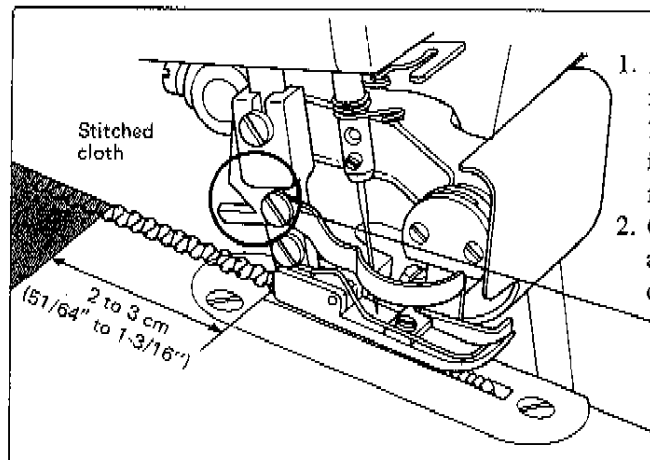
Stitching on trial — Run the threaded machine on trial



Start of stitching — After the machine is newly threaded or rethreaded due to breakage of a thread, start stitching in the following way:

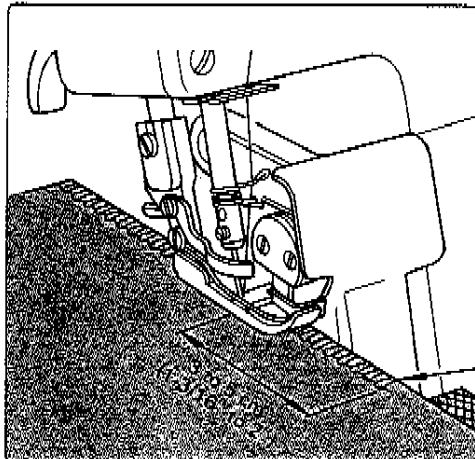
1. Place a test cloth under the presser foot. (The test cloth must be in the position to be stitched.)
2. Rotate by hand the handwheel 2 to 3 turns in the clockwise direction. Make sure that the threads are properly interlooped and then start stitching by depressing the speed controller.

When removing a stitched cloth from the sewing machine



1. After a cloth has been stitched, let the machine to produce a chain-off thread of 2 to 3 cm (51/64" to 1-3/16") long and cut it by the thread trimmer on the presser foot.
2. Continue to stitch the next workpiece with a chain-off thread left on the machine after cutting.

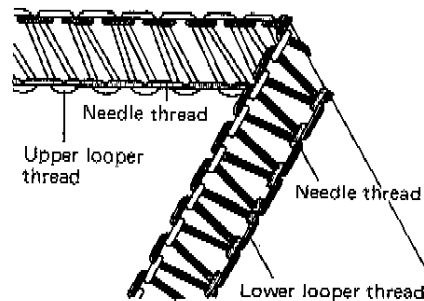
If a thread is broken while stitching



1. When a thread is accidentally broken while stitching, removing the cloth from the machine and thread the machine in the same way as before.
2. Place the cloth under presser foot in the way that the stitching work is resumed about 3 to 5 cm (1-3/16" to 2") back from the point at which the thread was broken and start stitching.

How to adjust the thread tension

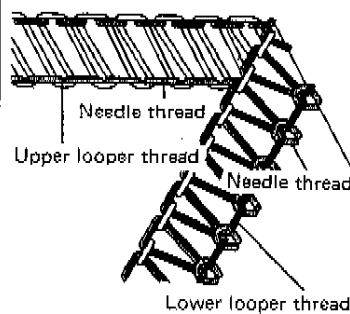
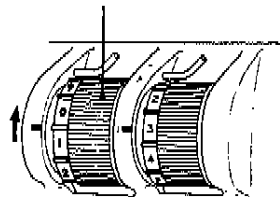
Your model MO-103 is designed to minimize the frequency of thread tension adjustment which is absolutely necessary for the usual sewing machines when a different kind of material or thread is used. When an extra heavy or fine material is stitched or the stitch formation is found abnormal, adjust the thread tension in the following way;

A correctly formed stitch**Standard thread tension setting**

Material	Needle thread tension	Upper looper thread tension
Light-weight	2 ~ 3	2 ~ 4
Medium-weight	3 ~ 4	2 ~ 4
Heavy-weight	4 ~ 5	2 ~ 4

When the needle thread tension is too low;

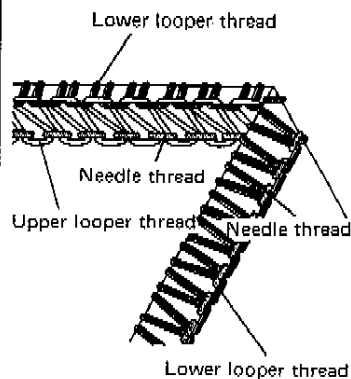
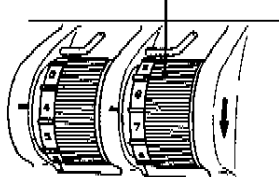
Needle thread tension regulator



Set the tension regulator to a larger figure

When the upper looper thread tension is too high;

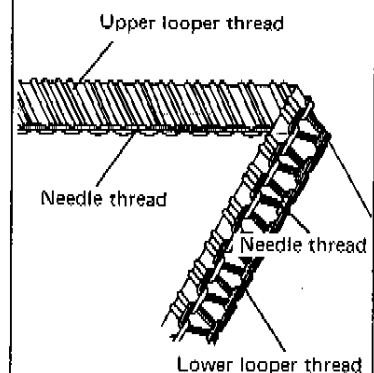
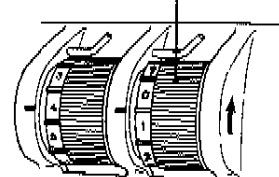
Upper looper thread tension regulator



Set the tension regulator to a smaller figure.

When the upper looper thread tension is too low;

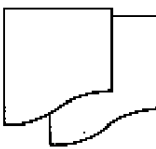
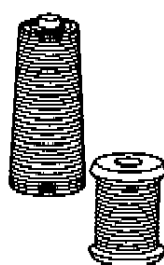
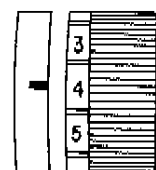
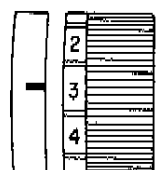
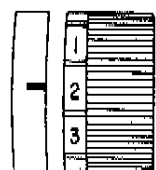
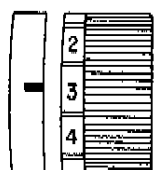
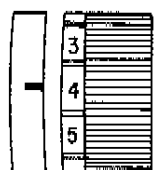
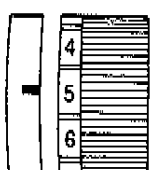
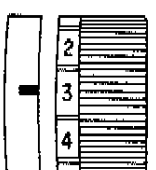
Upper looper thread tension regulator



Set the tension regulator to a larger figure.

* It is not necessary to readjust the lower looper thread tension which has been adjusted to meet a variety of materials.

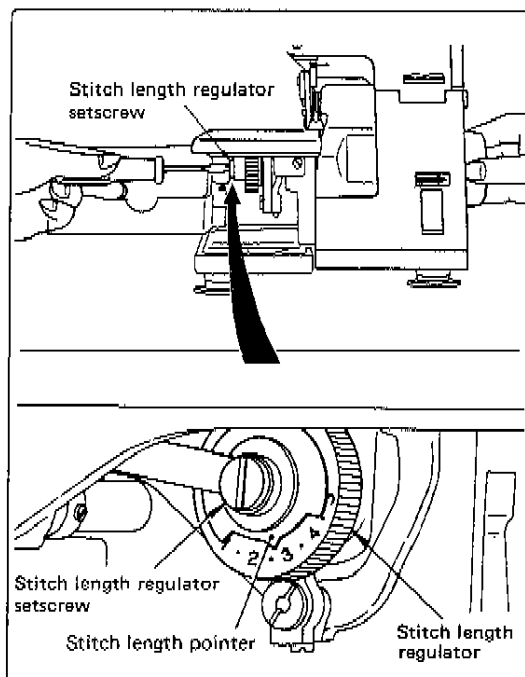
Thread tension table

	Kinds of cloth, thread and needle			Needle thread tension	Upper looper thread tension
	Cloth	Thread	Needle		
					
Light-weight material	Lawn	Cotton #80 to #90 Polyester spun #80 to #90 Polyester filament #80 to #90	BL x 1, No. 11 DB x 1, No. 11	 (2 ~ 3)	 (2 ~ 4) Reduce the thread tension by 0.5 to 1.0 scale when a filament thread is used.
	Georgette				
	Tricot				
	Woolens				
	Silk				
Medium-weight material	Ordinary cotton	Cotton #60 to #90 Polyester spun #60 to #90 Polyester filament #60 to #90	DB x 1KN, No. 10 is best suited. BL x 1, No. 11 DB x 1, No. 11	 (3 ~ 4)	 (2 ~ 4) Reduce the thread tension by 0.5 to 1.0 scale when a filament thread is used.
	Smooth knit fabric made of nylon or tetoron				
	Synthetic				
	Light-weight jersey				
	Ordinary woolens				
Heavy-weight material	Denim	Cotton, #50 to #60 Tetoron spun, #50 to #60 Tetoron filament #50 to #60	BL x 1, No. 11 DB x 1, No. 11	 (4 ~ 5)	 (2 ~ 4)
	Jersey				
	Coatings				

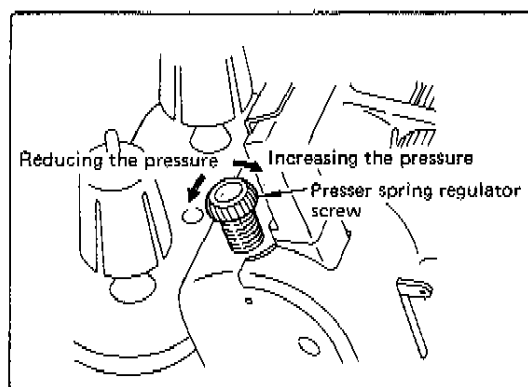
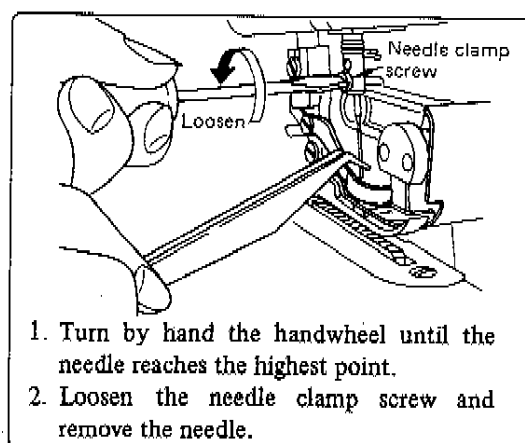
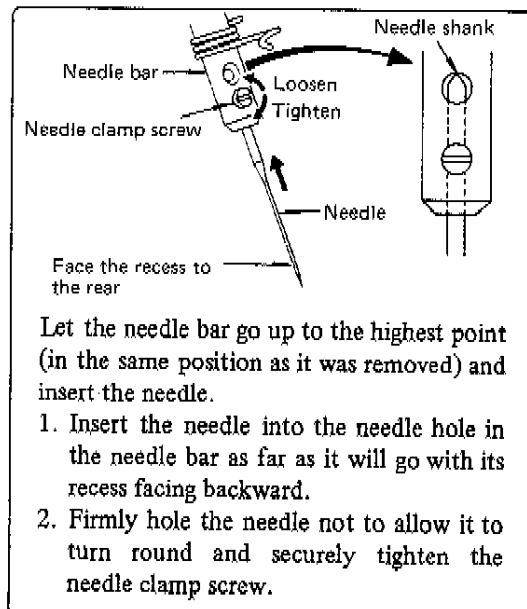
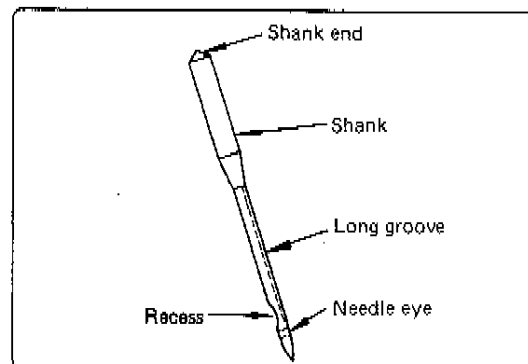
* The needle DB x 1KN, No. 10 is best suited for nylon and tetoron knitted fabrics.

How to adjust the stitch length

1. Open the side cover, hold the handwheel by your right hand not to allow it to turn and loosed the stitch length regulator setscrew using a screw driver supplied with the machine.
2. Adjust the stitch length regulator to a desired position on the scale.
3. After setting the stitch length regulator, firmly tighten the setscrew.

**Pressure of the presser foot**

It is not necessary to readjust the pressure of the presser foot even though the sewing material is either a light-weight (tricot, de chine etc.) or heavy-weight.

**How to attach and remove the needle****Removing the needle from the machine****Attaching the needle to the machine****Names of a needle**

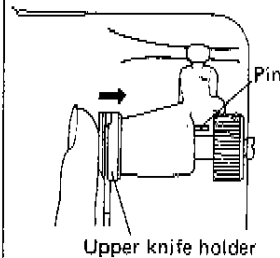
How to replace the knife

Renew the knife as soon as it becomes dull.

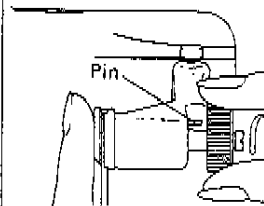
- * Replace only the lower knife (fixed knife).
It is not necessary to replace the upper knife (movable knife), because it is made of hard metal (Cemented carbide).

Remove the lower knife in the following order;

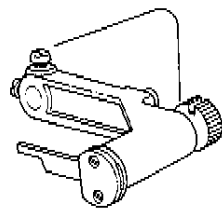
1. Pull out the power supply cord from the wall outlet.
2. Turn by hand the handwheel until the knife reaches the highest point.
3. Open the looper cover. (See p. 3)
4. Turn down the upper knife in the following way;



- A. Push the upper knife holder in the arrow direction as far as it will go, and the assembly will be released from the stopper pin.

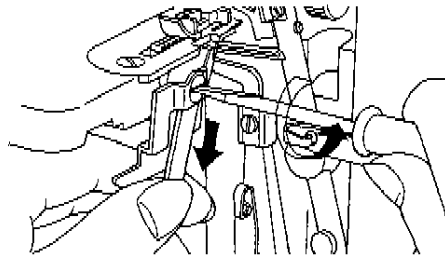


- B. Turn the upper knife holder in the arrow direction while it is released from the pin.

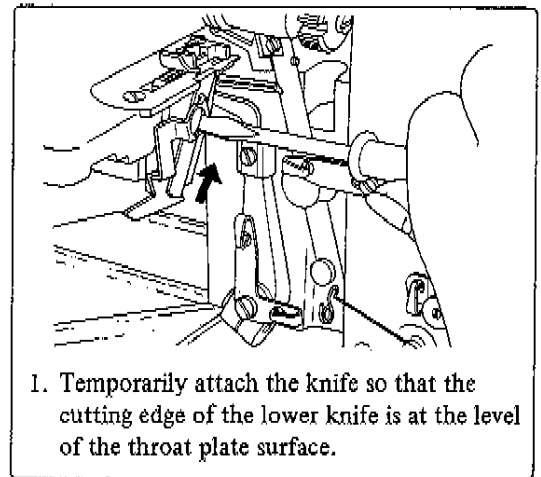


- C. And the upper knife holder will rest in the position as illustrated.

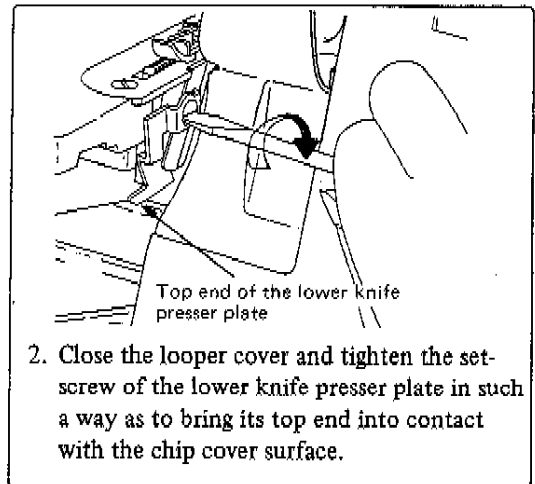
5. Loosen the setscrew of the lower knife presser plate as illustrated and remove the knife. (You will find a spare knife in the accessory bag.)



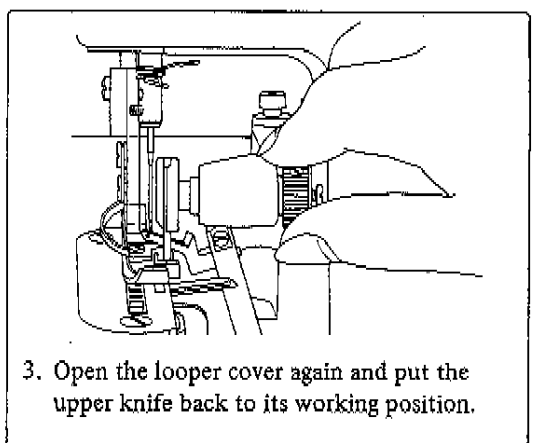
Attach a lower knife in the following way;



1. Temporarily attach the knife so that the cutting edge of the lower knife is at the level of the throat plate surface.



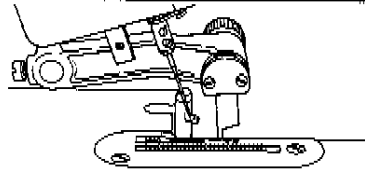
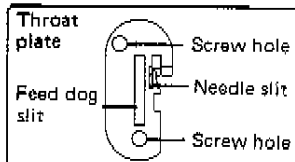
2. Close the looper cover and tighten the setscrew of the lower knife presser plate in such a way as to bring its top end into contact with the chip cover surface.



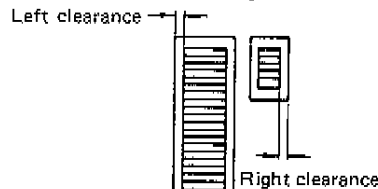
3. Open the looper cover again and put the upper knife back to its working position.

ADJUSTMENT OF THE THROAT PLATE POSITION

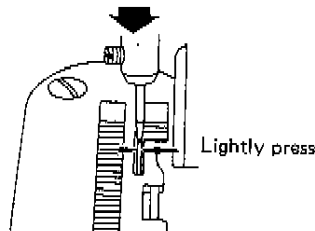
Re-attach the throat plate as illustrated below if it has been removed for doing lapping stitch.



1. Turn by hand the handwheel until the needle bar reaches the highest point.

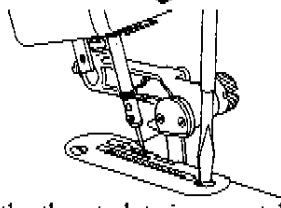


2. Position the throat plate to provide equal clearance at both sides of the feed dog and temporarily tighten the setscrews.

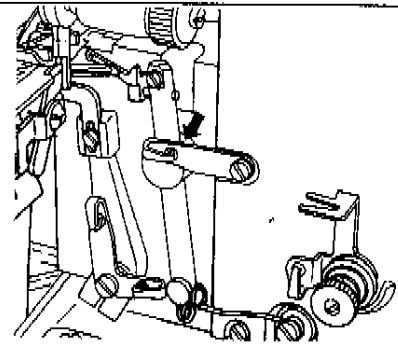


3. Turn by hand the handwheel until the needle reaches the lowest point to make sure that the needle in the needle slit does not touch the throat plate. To check this, lightly press the needle alternately from both sides to ensure that a clearance between them permits the needle to bend.

* If the needle touches the throat plate, adjust the position of the throat plate after loosening the setscrews. At the same time, make sure that the feed dog does not touch the throat plate by turning the handwheel.



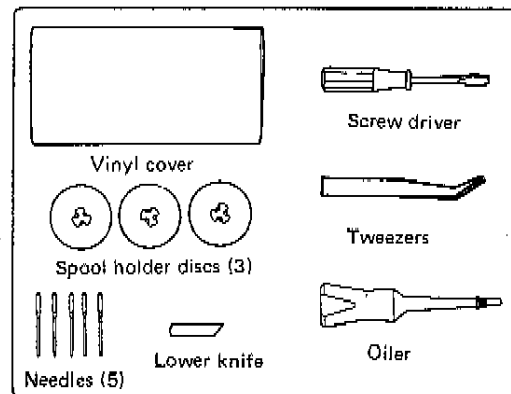
4. After the throat plate is accurately positioned, firmly tighten the setscrews.

LUBRICATING THE MACHINE

Before starting to operate the machine, apply one or two drops of lubricating oil through the oil holes specified in the illustration.

PACKING DETAILS

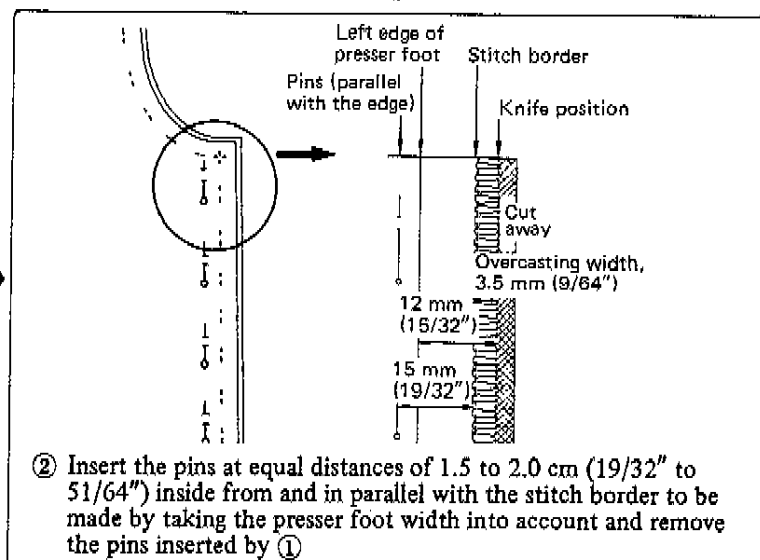
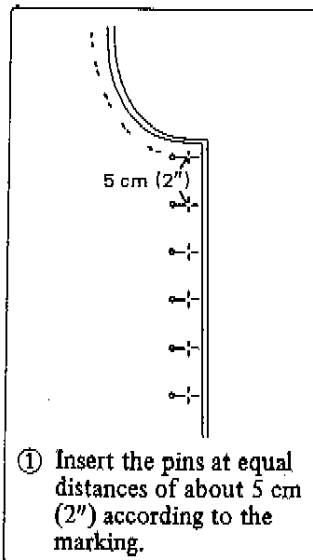
- | | |
|------------------------------|--------|
| 1. Sewing machine with motor | 1 set |
| 2. Controller | 1 pce. |
| 3. Instruction book | 1 copy |
| 4. Threading chart | 1 pce. |
| 5. Accessory bag | 1 pce. |
| 6. Spool holder base | 1 pce. |

STANDARD ACCESSORIES

HOW TO STITCH

○ Making a running and overcasting seam

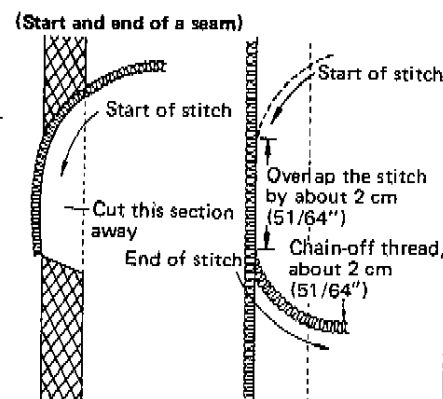
Since your MO-103 has a knife to cut the cloth edge, you can not stitch the cloth with the basting pins inserted as you can do with a home-use zigzag sewing machine. The best way is to sew the cloth which has been basted before hand. Alternatively, you can save time by inserting the pins in parallel with the cloth edge and sew 2 or more pieces of fabric together without removing the pins.



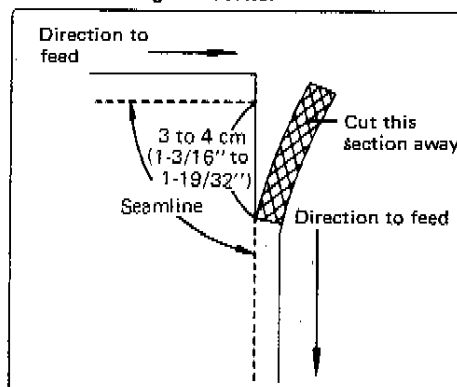
○ Overcasting the hem of the skirt

Overcast the hem with an even hemming width in the case of tight-skirt of similar garment of which the hem can be sewn without distributing the ease.

When overcasting the hem of a skirt with the flare, it is necessary to baste the edge to distribute the ease evenly using a straight stitch machine beforehand. To overcast it, place the cloth obliquely under the presser foot and overcast it with a curve. At the end of a seam, extend the stitch to cover a part of the start stitch by about 2 cm (51/64"), produce a chain-off thread of about 2 cm (51/64") trailing from the cloth edge and cut the thread. The chain-off thread left at the end of a seam prevents the stitch from ravelling out. Put the chain-off thread into the hem while finishing.



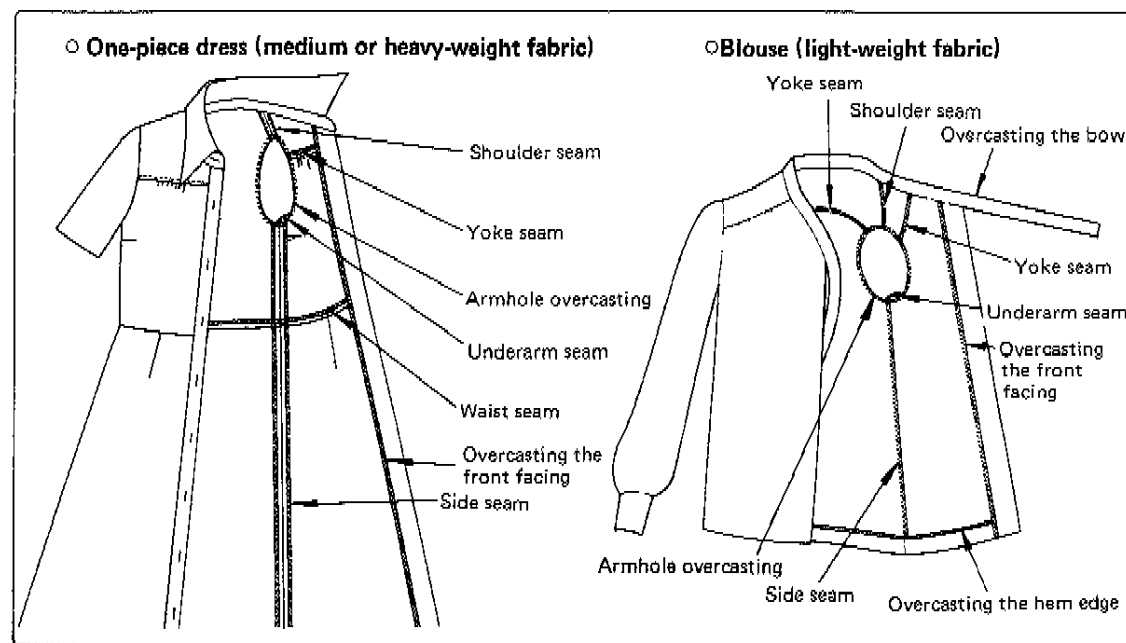
○ Overcasting the corner



Since there is a clearance between the needle and knife, you must cut a seam allowance at the corner as illustrated before overcasting it with your MO-103.

1. When the overcasting stitch has reached the edge of the cloth, raise the needle and the presser foot and draw out the interlooped threads from the throat plate in the backward direction taking care not to destroy the thread loop using an eyelet punch.
2. Turn round the cloth to change the direction to feed, let the presser foot down and overcast the other edge.

REPRESENTATIVE STITCHES



LAPPING STITCH ATTACHMENT (Option)

