

Swing Type Gathering Device

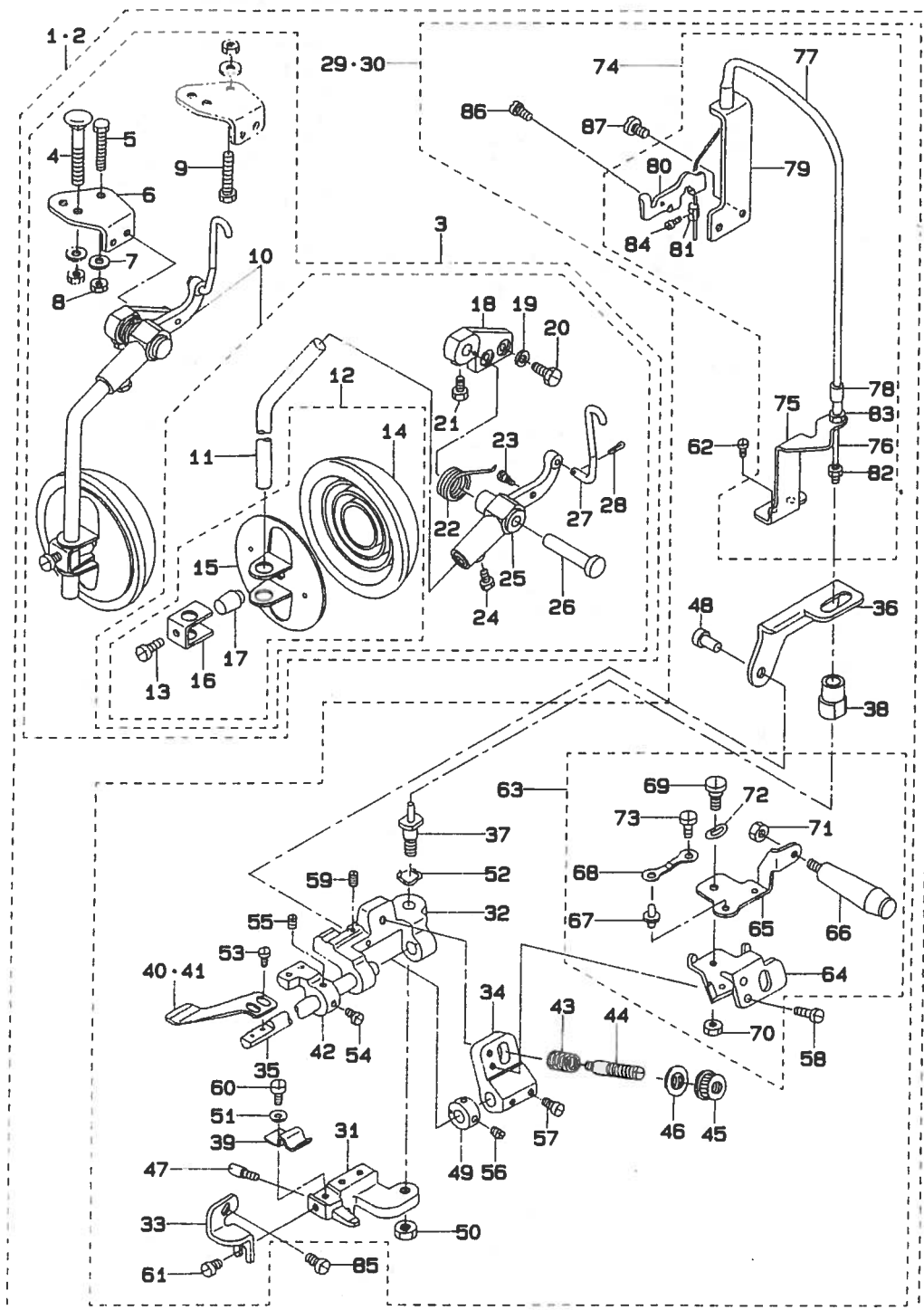
スイングタイプひだとり装置

S159・S160・S161・S162

FOR JUKI

PARTS LIST

1. S159 : SAFETY STITCH MACHINE WITH PEDAL
 インターロック用ペダル連動式
 S160 : OVERLOCK STITCH MACHINE WITH PEDAL
 オーバーロック用ペダル連動式

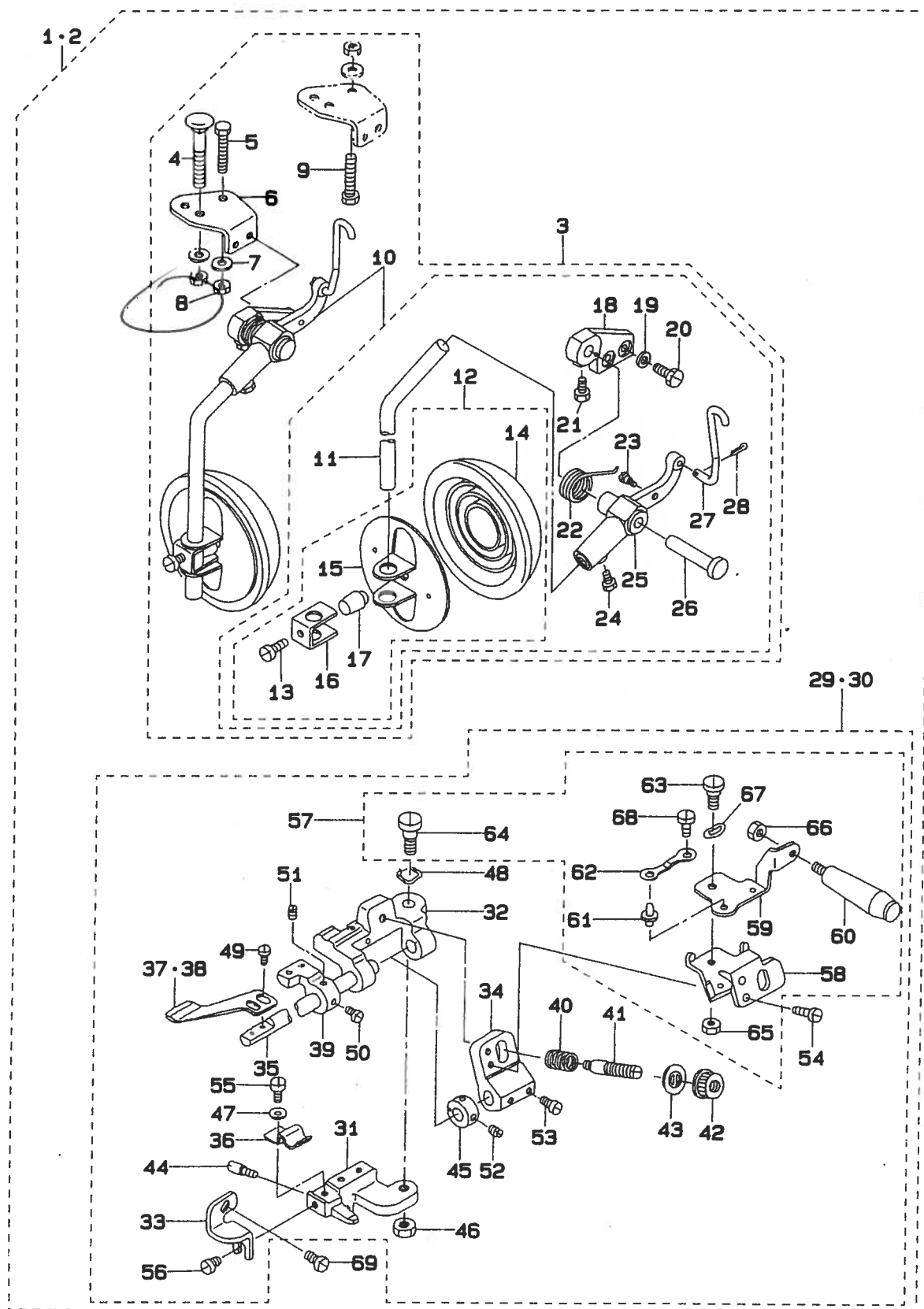


REF. NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1	#01	MAS-159000A0	TUCKING DEVICE ASM.	ヒタトリソウチソウクミ	1
2	#02	MAS-160000A0	TUCKING DEVICE ASM.	ヒタトリソウチソウクミ	1
3		MAS-107010A0	KNEE OPERATING DEVICE ASM.	ヒサアキソウチ クミ	(1)
4	#03	MAS-10704000	BOLT	ウチイネ	(1)
5	#04	SH-9083013-SC	SCREW M8 L=30	ワザクナット M8 L=30	(1)
6		MAS-10701000	INSTALLING PLATE	ヒサアキレハ-タ イトリツキイ	(1)
7	#04	WP-0850002-SC	WASHER 8.5X18X1.6	ヒサアキ 8.5X18X1.6	(1)
8	#01	NH-6080600-SH	NUT M8	ワザクナット M8 1ｼ	(1)
9	#05	SH-9084533-SC	SCREW M8 L=45	ワザクナット M8 L=45	(2)
10		MAS-107010C0	KNEE PRESS PLATE ASM.	ヒサアキイ クミ	(1)
11		MAS-10702000	RDD	ヒサアキソウチ	(1)
12		110-23751	KNEE PRESS PLATE ASM.	ヒサアキイ クミ	(1)
13		SS-0151540-SR	SCREW 15/64-28 L=15	ワザクナット 15/64-28 L=15	(1)
14		B3431-552-000-A	KNEE PRESS PLATE COVER	ヒサアキイ カハ-	(1)
15		110-23702	KNEE PRESS PLATE	ヒサアキイ	(1)
16		110-23801	KNEE PRESS PLATE HOLDER	ヒサアキイ	(1)
17		110-24403	RUBBER	ヒサアキ コム	(1)
18		MAS-10501000	LEVER INSTALLING BASE	ヒサアキレハ-タ イ	(1)
19		WP-0740516-SP	WASHER 7.4X11.8X0.5	ヒサアキ 7.4X11.8X0.5	(2)
20		SS-9081610-TP	SCREW 9/32-28 L=16	ワザクナット 9/32-28 L=16	(2)
21		SS-9151210-TP	SCREW 15/64-28 L=12	ワザクナット 15/64-28 L=12	(1)
22		MAS-10503000	SPRING	ヒサアキレハ-タ イ	(1)
23		SD-0550501-SP	HINGE SCREW 5=5.5 H=5	タムシ 5=5.5 H=5	(1)
24		SS-9151210-TP	SCREW 15/64-28 L=12	ワザクナット 15/64-28 L=12	(1)
25		MAS-10502000	LEVER	ヒサアキレハ-	(1)
26		MAS-10504000	PIN	ヒサアキレハ-ソウチ	(1)
27		MAS-10703000	CONNECTING RDD	ヒサアキ レンタウカ-	(1)
28		PD-0201000-OD	SPLIT PIN 1.8X10	ワリピン 1.8X10	(1)
29	#01	MAS-159010A0	PEDAL SHIRING ATTACHMENT ASM.	ヒタトリソウチ(クミ)	(1)
30	#02	MAS-160010A0	PEDAL SHIRING ATTACHMENT ASM.	ヒタトリソウチ(クミ)	(1)
31		MAS-15901000	PRESSER PLATE BASE	ヒタトリソウチトリツキイ	(1)
32		MAS-15902000	SWING BASE	ヒタトリソウチソウチイ	(1)
33		MAS-15903000	BRACKET	マワリトメ	(1)
34		MAS-15904000	ARM	ヒタトリソウチハネウチ	(1)
35		MAS-15905000	SHAFT	ヒタトリソウチ	(1)
36		MAS-15908000	LIFTING LEVER	ヒサアキレハ-	(1)
37		MAS-15909000	LIFTING SHAFT	ヒサアキソウチ	(1)
38		MAS-15910000	LIFTING COLLAR	ヒサアキコラー	(1)
39		MAS-15911000	SPRING	ヒサトリソウチソウチイ ハネ	(1)
40	#01	MAS-05108000	INTERMITTENT SHIRING PRESSER	ヒサトリソウチ	(1)
41	#02	MAS-05208000	INTERMITTENT SHIRING PLATE	ヒサトリソウチ	(1)
42		MAS-05212000	PIPING MOUNTING BLOCK	ハネイソウチ トリツキイ	(1)
43		MAS-05205000	SPRING	ヒサトリソウチハネ	(1)
44		B3105-804-000	TENSION POST	イトチヨウソウチ	(1)
45		B3116-125-000	TENSION NUT	イトチヨウソウチ	(1)
46		B3120-125-000	ROTATING STOPPER	イトチヨウソウチ オイデントメ	(1)
47		MAS-05202000	SCREW	ヒサトリソウチ トリツキイ 9/32	(1)
48		MAS-05714000	PIN	ヒサアキレハ- ヒンソウソウチ	(1)
49		CS-0790811-SP	THRUST COLLAR D=7.94 W=8	スラストコラー D=7.94 W=8	(1)
50		NS-6100520-SP	NUT 1/4-24	ワザクナット 1/4-24	(1)
51		WP-0480856-SP	WASHER 4.8X8.4X0.8	ヒサアキ 4.8X8.4X0.8	(1)
52		VZ-0850302-K0	WAVED WASHER 8.5X12.5X0.3	ナミカタサカキ 8.5X12.5X0.3	(1)
53		SS-6090650-SP	SCREW 9/64-40 L=6	ワザクナット 9/64-40 L=6	(2)
54		SS-6110850-TP	SCREW 11/64-40 L=5.5	ワザクナット 11/64-40 L=5.5	(1)
55		SS-8110520-TP	SCREW 11/64-40 L=4.5	ワザクナット 11/64-40 L=4.5	(1)
56		SS-8110520-TP	SCREW 11/64-40 L=4.5	ワザクナット 11/64-40 L=4.5	(2)
57		SS-6110710-TP	SCREW 11/64-40 L=6.5	ワザクナット 11/64-40 L=6.5	(2)
58		SS-4090715-SP	SCREW 9/64-40 L=7	ワザクナット 9/64-40 L=7	(2)
59		SS-8090410-SP	SCREW 9/64-40 L=3.5	ワザクナット 9/64-40 L=3.5	(1)
60		SS-7110710-SP	SCREW 11/64-40 L=7	ワザクナット 11/64-40 L=7	(1)
61		SS-7110720-SP	SCREW 11/64-40 L=7	ワザクナット 11/64-40 L=7	(1)
62		SS-7110910-SP	SCREW	ワザクナット 11/64-40 L=8.5	(2)
63		MAS-159060A0	LIFTING ARM ASM.	ヒサアキウチ(クミ)	(1)
64		MAS-15908000	LIFTING ARM	ヒサアキウチ	(1)
65		MAS-15907000	MANUAL LEVER ARM.	シェットウレハ-ウチ	(1)
66		MAS-15915000	MANUAL LEVER	シェットウレハ-	(1)
67		MAL-12115000	ARM FIXED PLATE STOPPER	ウチコチイタストップハ-	(1)
68		MAL-12116000	ARM FIXED PLATE STOPPER SPRING	ウチコチイタストップハ- ハネ	(1)
69		SD-0600352-SP	HINGE SCREW	タムシ	(1)
70		NS-6110350-SP	NUT 11/64-40	ワザクナット 11/64-40	(1)
71		NH-6050001-SP	NUT M5	ワザクナット M5X0.8 1ｼ	(1)
72		VZ-0640312-K0	WAVED WASHER	ナミカタサカキ 6.4X11X0.3	(1)
73		SS-7110340-SP	SCREW 11/64-40 L=3.2	ワザクナット 11/64-40 L=3.2	(1)
74		MAS-159120A0	WIRE STOPPER ARM.	ワイヤストップハ-(クミ)	(1)
75		MAS-15912000	WIRE STOPPER	ワイヤストップハ-	(1)
76		MAS-159130A0	WIRE ASM.	ワイヤ(クミ)	(1)
77		MAS-15914000	WIRE TUBE	ワイヤチューブ	(1)
78		MAS-12512000	WIRE ADJUSTING STUD	ワイヤチヨウセツ シュ	(1)
79		MAS-057180A0	WIRE SUPPORT ASM.	ワイヤサウポート	(1)
80		MAS-05719000	LIFTING LEVER CONNECTOR	ヒサアキレハ-ウチ	(1)
81		MAS-05720000	WIRE STOPPER	ワイヤ	(1)
82		NS-6090310-SP	NUT 9/64-40	ワザクナット 9/64-40	(1)
83		NS-6110310-SP	NUT 11/64-40	ワザクナット 11/64-40	(1)
84		SS-0090640-SP	SCREW 9/64-40 L=6	ワザクナット 9/64-40 L=6	(1)
85		SS-7110840-SP	SCREW 11/64-40 L=7.8	ワザクナット 11/64-40 L=7.8	(1)
86		SS-7110710-SP	SCREW 11/64-40 L=7	ワザクナット 11/64-40 L=7	(1)
87		SS-6151040-SP	SCREW 15/64-28 L=10	ワザクナット 15/64-28 L=10	(2)

Note (注記) #01...FOR S150
 #02...FOR S160
 #03...FOR SEMI-SUNKEN TYPE TABLE
 (FOR EXPORT)
 #04...FOR SEMI-SUNKEN TYPE TABLE
 #05...FOR FULLY-SUNKEN TYPE TABLE

S150 用
 S160 用
 卓上式テーブル用 (輸出用)
 卓上式テーブル用
 全沈式テーブル用

2. S161 : SAFETY STITCH MACHINE WITH MANUAL TYPE
 インターロック用手動レバー式
 S162 : OVERLOCK STITCH MACHINE WITH MANUAL TYPE
 オーバーロック用手動レバー式



REF. NO	NOTE	PART NO.	DESCRIPTION	ヒンメイ	QTY
1	#01	MAS-101000A0	TUCKING DEVICE ASM.	ヒタトリツケツク	1
2	#02	MAS-102000A0	TUCKING DEVICE ASM.	ヒタトリツケツク	1
3		MAS-107010A0	KNEE OPERATING DEVICE ASM.	ヒサアキツク	(1)
4	#03	MAS-10704000	BOLT	ウチネボルト	(1)
5	#04	SH-0083013-SC	SCREW M8 L=30	ウツカネボルト M8 L=30	(1)
6		MAS-10701000	INSTALLING PLATE	ヒサアキレハ-ツイ トリツケ	(1)
7	#04	WP-0850002-SC	WASHER 8.5X18X1.0	ヒサアキ 8.5X18X1.0	(1)
8	#04	NH-0080000-SH	NUT M8	ウツカネナット M8 1ツ	(1)
9	#05	SH-0084533-SC	SCREW M8 L=45	ウツカネボルト M8 L=45	(2)
10		MAS-107010C0	KNEE PRESS PLATE ASM.	ヒサアキツク	(1)
11		MAS-10702000	ROD	ヒサアキツク	(1)
12		110-23751	KNEE PRESS PLATE ASM.	ヒサアキツク	(1)
13		SS-9151540-SR	SCREW 15/64-28 L=15	ウツカネボルト 15/64-28 L=15	(1)
14		B3431-552-000-A	KNEE PRESS PLATE COVER	ヒサアキツク カハ-	(1)
15		110-23702	KNEE PRESS PLATE	ヒサアキツク	(1)
16		110-23801	KNEE PRESS PLATE HOLDER	ヒサアキツク	(1)
17		110-24403	RUBBER	ヒサアキ コム	(1)
18		MAS-10501000	LEVER INSTALLING BASE	ヒサアキレハ-ツイ	(1)
19		WP-0740516-SP	WASHER 7.4X11.8X0.5	ヒサアキ 7.4X11.8X0.5	(2)
20		SS-9081610-TP	SCREW 9/32-28 L=16	ウツカネボルト 9/32-28 L=16	(2)
21		SS-9151210-TP	SCREW 15/64-28 L=11.8	ウツカネボルト 15/64-28	(1)
22		MAS-10503000	SPRING	ヒサアキレハ-ツイ	(1)
23		SD-0550501-SP	HINGE SCREW D=5.5 H=5	タンネン D=5.5 H=5	(1)
24		SS-9151210-TP	SCREW 15/64-28 L=11.8	ウツカネボルト 15/64-28	(1)
25		MAS-10502000	LEVER	ヒサアキレハ-	(1)
26		MAS-10504000	PIN	ヒサアキレハ-ツク	(1)
27		MAS-10703000	CONNECTING ROD	ヒサアキ レンタツク	(1)
28		PD-0201000-0D	SPLIT PIN 1.8X10	ツリピン 1.8X10	(1)
29		MAS-101010A0	PEDAL SHIRING ATTACHMENT ASM.	ヒタトリツケツク	(1)
30		MAS-102010A0	PEDAL SHIRING ATTACHMENT ASM.	ヒタトリツケツク	(1)
31		MAS-15001000	PRESSER PLATE BASE	ヒタトリツケツク	(1)
32		MAS-15002000	SWING BASE	ヒタトリツケツク	(1)
33		MAS-15003000	BRACKET	マツリツク	(1)
34		MAS-15004000	ARM	ヒタトリツケツク	(1)
35		MAS-15005000	SHAFT	ヒタトリツク	(1)
36		MAS-15011000	SPRING	ヒタトリツケツク	(1)
37		MAS-05108000	INTERMITTENT SHIRING PRESSER	ヒタトリツケ	(1)
38		MAS-05208000	INTERMITTENT SHIRING PLATE	ヒタトリツケ	(1)
39		MAS-05212000	PIPING MOUNTING BLOCK	パイピング トリツケ	(1)
40		MAS-05205000	SPRING	ヒタトリツケ	(1)
41		B3105-804-000	TENSION POST	イトチヨ-ツボ	(1)
42		B3116-125-000	TENSION NUT	イトチヨ-ツボ	(1)
43		B3120-125-000	ROTATING STOPPER	イトチヨ-ツボ	(1)
44		MAS-05202000	SCREW	ヒタトリツケ	(1)
45		CS-0790811-SP	THRUST COLLAR D=7.94 V=8	スラストツク D=7.94 V=8	(1)
46		NS-6160520-SP	NUT 1/4-24	ウツカネナット 1/4-24	(1)
47		WP-0480858-SP	WASHER 4.8X8.4X0.8	ヒサアキ 4.8X8.4X0.8	(1)
48		WZ-0850302-K0	WAVED WASHER 8.5X12.5X0.3	ナミカツク 8.5X12.5X0.3	(1)
49		SS-6090650-SP	SCREW 9/64-40 L=6	ヒサアキ 9/64-40 L=6	(2)
50		SS-6110850-TP	SCREW 11/64-40 L=5.5	ヒサアキ 11/64-40 L=5.5	(1)
51		SS-8110520-TP	SCREW 11/64-40 L=4.5	トメツク 11/64-40 L=4.5	(1)
52		SS-8110520-TP	SCREW 11/64-40 L=4.5	トメツク 11/64-40 L=4.5	(2)
53		SS-6110710-TP	SCREW 11/64-40 L=6.5	ヒサアキ 11/64-40 L=6.5	(2)
54		SS-4090715-SP	SCREW 9/64-40 L=7	ヒサアキ 9/64-40 L=7	(2)
55		SS-7110710-SP	SCREW 11/64-40 L=7	ヒサアキ 11/64-40 L=7	(1)
56		SS-7110720-SP	SCREW 11/64-40 L=7	ヒサアキ 11/64-40 L=7	(1)
57		MAS-159060A0	LIFTING ARM ASM.	ヒサアキツク	(1)
58		MAS-15906000	LIFTING ARM	ヒサアキツク	(1)
59		MAS-15907000	MANUAL LEVER ARM.	シフトツク	(1)
60		MAS-15915000	MANUAL LEVER	シフトツク	(1)
61		MAL-12115000	ARM FIXED PLATE STOPPER	ツク	(1)
62		MAL-12116000	ARM FIXED PLATE STOPPER SPRING	ツク	(1)
63		SD-0600352-SP	HINGE SCREW	タンネン	(1)
64		SD-0790801-SP	HINGE SCREW D=7.94 H=8	タンネン D=7.94 H=8	(1)
65		NS-6110350-SP	NUT 11/64-40	ウツカネナット 11/64-40	(1)
66		NH-6050001-SP	NUT M5	ウツカネナット M5X0.8 1ツ	(1)
67		WZ-0640312-K0	WAVED WASHER	ナミカツク 6.4X11X0.3	(1)
68		SS-7110340-SP	SCREW 11/64-40 L=3.2	ヒサアキ 11/64-40 L=3.2	(1)
69		SS-7110840-SP	SCREW 11/64-40 L=7.8	ヒサアキ 11/64-40 L=7.8	(1)

Note (注記) #01...FOR S161
 #02...FOR S162
 #03...FOR SEMI-SUNKEN TYPE TABLE
 (FOR EXPORT)
 #04...FOR SEMI-SUNKEN TYPE TABLE
 #05...FOR FULLY-SUNKEN TYPE TABLE

S161 用
 S162 用
 卓上式テーブル用 / 輸出入用
 卓上式テーブル用
 卓上式テーブル用

お問い合わせ、ご相談は
 To order or for further
 information,
 please contact:

*このパーツリストは商品改良のため予告なく変更する場合があります。
 *The description covered in this parts list is subject to change for improvement of the commodity without notice.
 *このパーツリストは、1993年10月現在の商品仕様で編集・印刷したものです。
 *This parts list is edited and printed in accordance with the product specifications as of October 1993

Swing-type gathering device

S159 · S160

S161 · S162

FOR JUKI

INSTRUCTION MANUAL

Preface

Congratulations on your purchase of a JUKI gathering device. S159, S160, S161 and S162 models of gathering devices which are applicable to MO-3900E Series are the attachments for gathering.

Please read this Instruction Manual carefully before using it. We hope you will enjoy using it for a long time.

1. Name

Swing-type gathering device for the MO-3900E Series of overlock/safety stitch machine

S159: Swing-type gathering device for safety stitch machines (pedal-operated)

S161: Swing-type gathering device for safety stitch machines (lever-operated)

S160: Swing-type gathering device for overlock machines (pedal-operated)

S162: Swing-type gathering device for overlock machines (lever-operated)

2. Applicable models

MO-3904E-0E6	MO-3904E-0F6
MO-3914E-BD6	MO-3914E-BE6
MO-3912E-DF6	
MO-3916E-DD4	MO-3916E-DE4
MO-3916E-DF6	MO-3916E-FF6
MO-3916E-RH6	MO-3943E-FBD6

3. Specifications

Application	For continuous gathering and partial shirring on light-weight materials including knitted fabric, light-weight knits and broadcloth.
Sewing speed	Up to 7,000 s.p.m.
Differential feed ratio	Overlock machines 1:3 Safety stitch machines 1:3 (Adjust appropriately in accordance with the type of material to be used.)
Lift of the presser foot	Overlock machine: 6 mm Safety-stitch machine: 6 mm (5 mm only for RH6)

4. Parts to be replaced when the gathering device is used with the overlock/safety stitch machine

To operate an overlock/safety stitch machine in combination with the S159, S160, S161 or S162 gathering device, the gauge components need to be changed accordingly. Choose the appropriate parts from among those listed in the table below.

(1) Safety stitch machines (MO-3916E or 3943E) S159 or S161

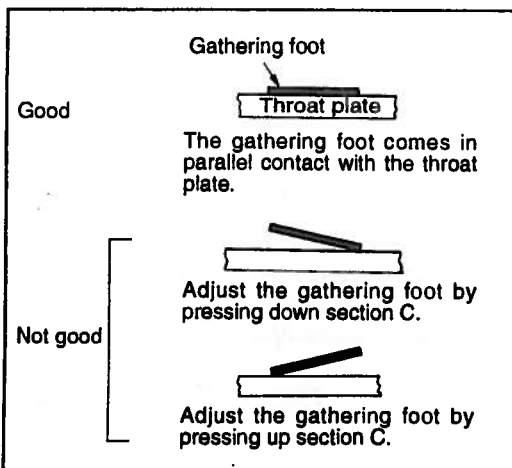
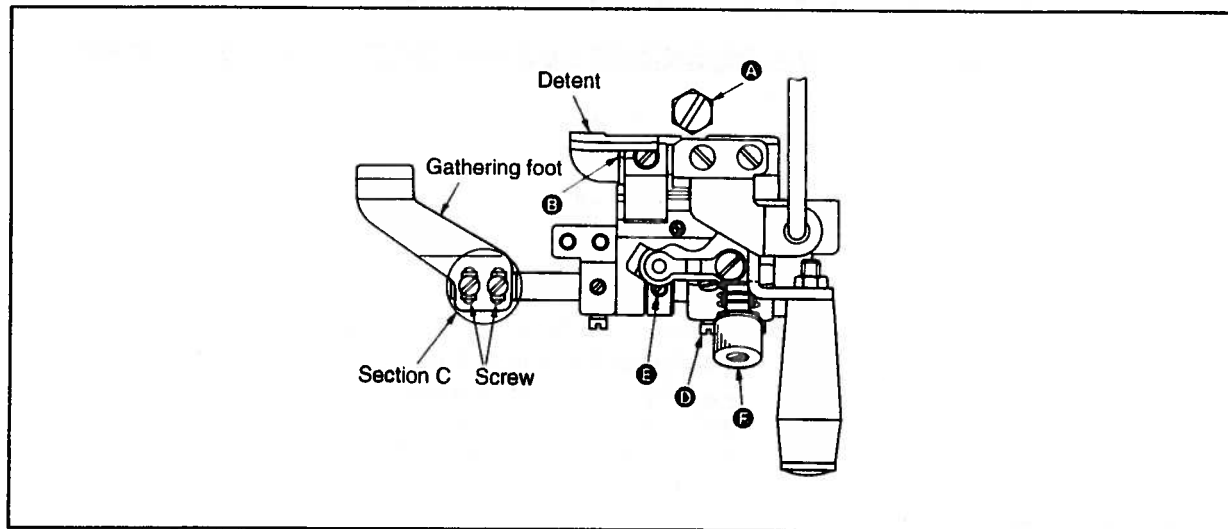
Gauge size	DD4	DE4	DF6	FF6	RH6	FBD6
Name						
Presser joint	12154654	12154654	12154753	12154852	12154951	11975950
Main feed dog	12170700	12170700	12170809	12170908	12170908	11884806
Differential feed dog	12172904	12172904	12173407	12173407	12173407	11885902
Throat plate	R4508J0DD0B	R4508J0ED0B	R4608J0FD0A	R4612J0FD0A	R461750HD0A	R4612J0DE02
* Gathering foot	-	-	-	-	* MAS0510800A	-

* Use the gathering foot only when the RH6 gauge set is used.

(2) Overlock machines (MO-3904E, -3912E or -3914E) S160 or S162

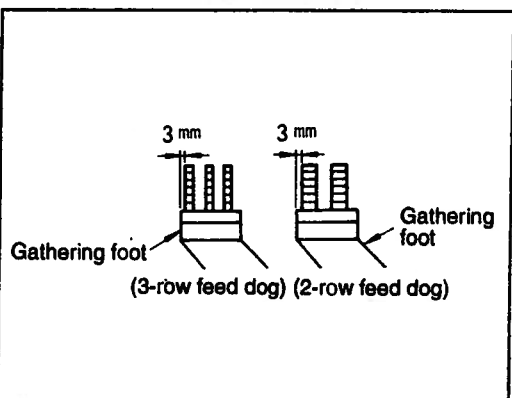
Gauge size	0E6	0F6	BD6	BE6	DF6(3912)
Name					
Presser joint	11878857	11974250	11879350	11879350	11974052
Main feed dog	11883402	11883402	11883402	11883402	11886603
Differential feed dog	12171807	12171807	12171807	12171807	12171906
Throat plate	R4300J0EE0B	R4300J0FE0A	R4305J0DE0A	R4305J0EE0A	R4308J0FE00

5. Adjusting the gathering foot



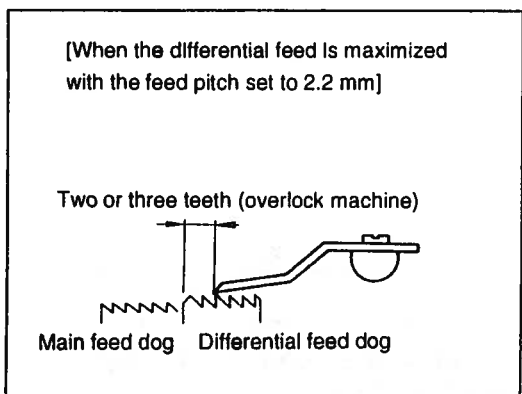
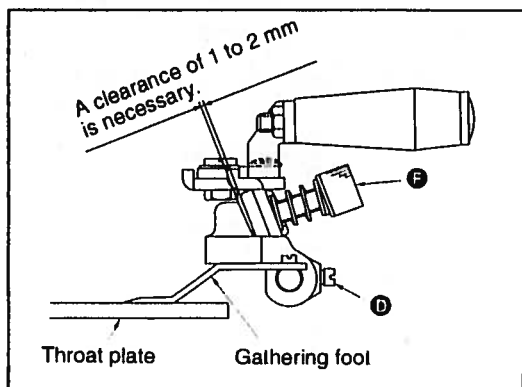
(1) Adjust the gathering foot so that it comes in parallel contact with the top surface of the throat plate over the length.

- Temporarily tighten screw **A**, loosen screw **B**, and adjust the parallelism between the gathering foot and the throat plate.
- After the completion of sewing, tighten screw **B** and screw **A**.



(2) Adjusting the vertical position and the lateral position of the gathering foot

- Loosen two screws **D** and screw **E** in the thrust collar, and adjust the position of the gathering foot, in the lateral direction, so that it is 3 mm spaced from the edge of the feed dog.



(3) Adjusting the longitudinal position of the gathering foot

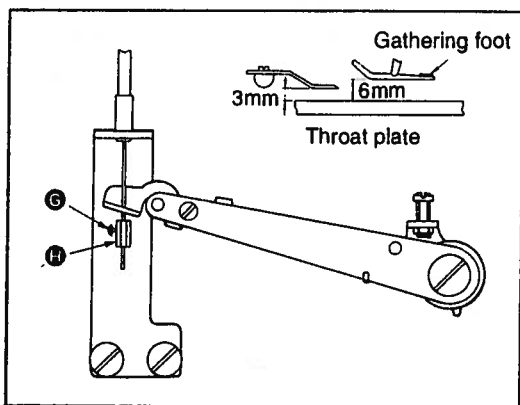
As the standard longitudinal position of the gathering foot, the gathering foot must reach the 2nd or 3rd tooth of the differential feed dog of the overlock machine or the 1st or 2nd tooth of the feed dog of the safety stitch machine when the differential feed dog completes feeding action.

The size of gathers is changed by moving the gathering foot back or forth. Adjust the longitudinal position of the gathering foot in accordance with the material to be used.

(4) Adjusting the pressure of the gathering foot

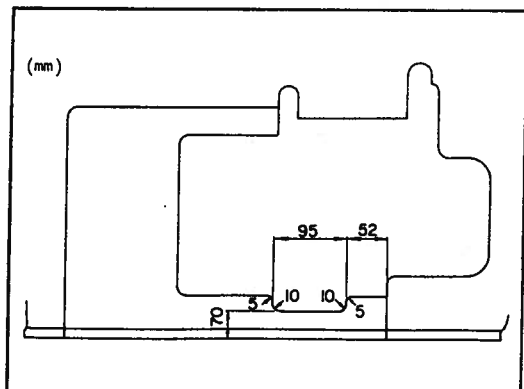
- Standard pressure of the gathering foot, as measured at the top end of the gathering foot, is 1.5 kg. However, adjust it properly in accordance with the material to be used. (Adjust the pressure using adjusting knob **F**.)

6. Adjusting the lifting amount of the gathering foot(S159, S160)



- Loosen screw **G**, and adjust the lifting amount of the gathering foot by moving **H** up or down. The standard lift of the gathering foot is 3 mm.

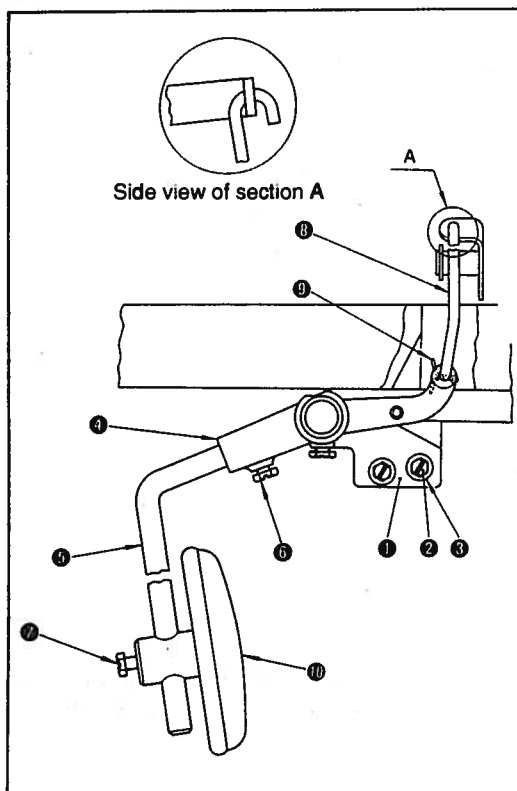
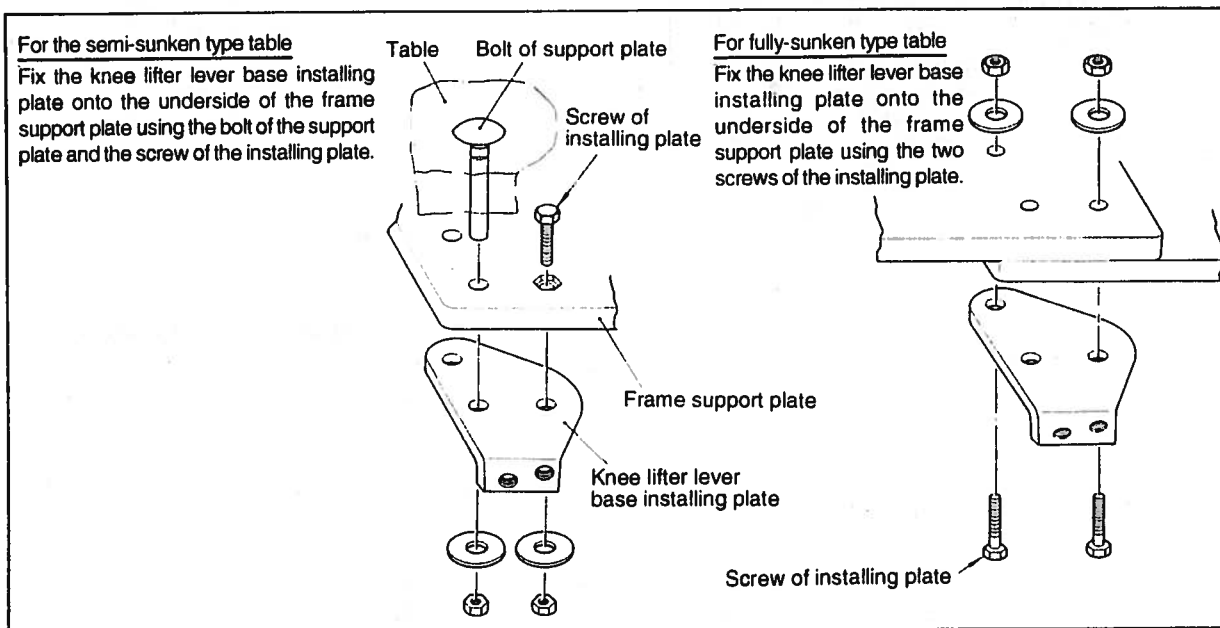
7. Modifying the table (fully-sunken type)



When using the S159 or S160 with a fully-sunken type table, modify the dimensions of the table as indicated in the figure on the left.

8. Installing the knee lifter

(1) Attach the knee lifter installing plate in place as illustrated below.



(2) Attach the knee lifter unit to the knee lifter lever base installing plate.

- 1) Attach knee lifter lever base ① to the frame support plate using screw ② and washer ③.
- 2) Put shaft ⑤ into knee lifter lever ④, and tighten screw ⑥.
- 3) Put knee lifter connecting rod ⑧ into the hole in the differential feed adjusting lever from this side, insert one end of the rod into the hole ④ in the lever and secure it with cotter pin ⑨ so that the rod will not come off.
- 4) Properly position knee pad ⑩ to allow the operator to operate the knee lifter with ease. Then fix the pad at that position using screw ⑦.

To order or for further information, please contact:

Please do not hesitate to contact our distributors or agents in your area for further information when necessary.

*The description covered in this instruction manual is subject to change for improvement of the commodity without notice.