



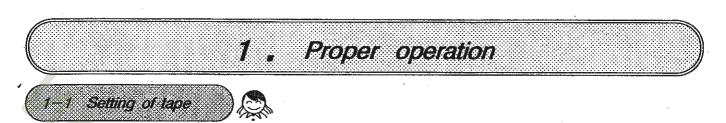
With Variable Rear Top-Feeder

AZF8500Gの取扱説明書と調整が異なる部分を記載しています。 AZF8500Gの取扱説明書とあわせてご使用下さい。 Adjustments different with AZF8500G are mentioned in this book. Read this book in combination with INSTRUCTIONS of AZF8500G.

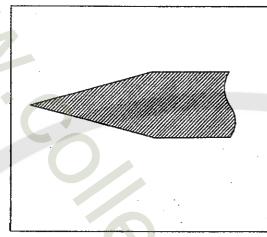
取扱説明書は全て保管しておいて下さい。 安全にお使い頂くため、 最後までよくお読みになってからご使用下さい。 SAVE ALL INSTRUCTION MANUALS. READ and UNDERSTAND THOROUGHLY to OPERATE for SAFE.USE.



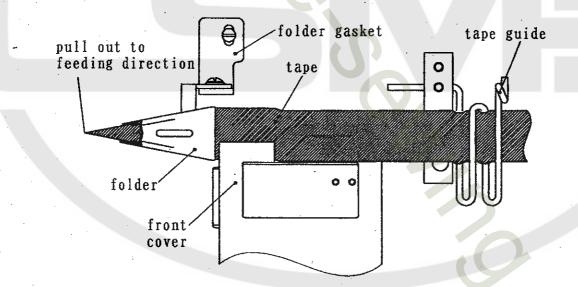
・ ヤマトミシン製造株式会社 YAMATO SEWING MACHINE MFG. CO., LTD.



*Cutting the tip of tape as illustrated below makes easy to run the tape through folder.



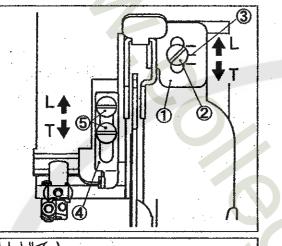
- 1. Run the tape through folder after through the tape guide as shown below.
- 2. Pull out the end of tape to (machine's)feeding direction gently and get the tape folded in four underneath raised presser foot. Then, lower the presser foot.

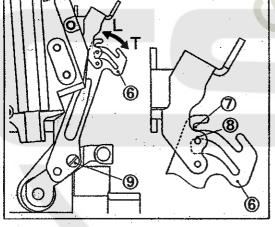


WARNING -

ALWAYS turn OFF the motor switch and check that the motor stops before the work.

1 Needle thread tension for double chainstitch





2–2 Looper Inread tension for double chainstitch

(1D

1mm

(10)

- ☆ At the standard position of needle thread eyelet①, the notch mark③ lines up to the center of screw②.
- ☆ Set double chainstitch needle thread eyelet (left)④ to make needle thread being level with eyelet④ at the top dead point of needle bar. To adjust it, loosen screw⑤.
 ☆ At the standard position of needle thread pull-off⑥, its portion for thread pull-off⑦ lines up to the eye⑧ on eyelet (right), when the pull-off is forward completely. To adjust it, loosen screw⑨.
 * Moving needle thread eyelet and needle thread pull-off to the direction "T" tightens the needle thread tension and moving them to "L" loosens the tension.

☆ Set the bottom of eye① on looper thread eyelet③ to lines up to the surface⑫ of looper thread take-up⑪ when the surface⑫ is being in level.

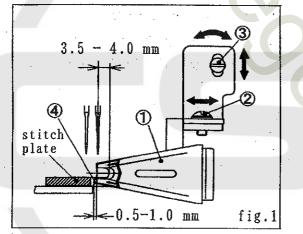
- ☆ Set thread retaining finger⊕ at the point 1 mm above the center of eye on looper thread eyelet⊕.
- At the standard position, the center of slot on looper thread eyelet(3) lines up to the center of screw(5).
- * Moving looper thread eyelet(3) to direction "L" loosens the looper thread tension and moving it to "T" tightens the tension.

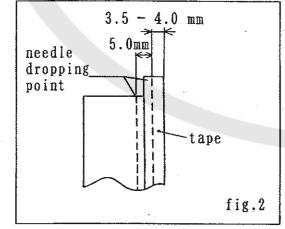


ALWAYS turn OFF the motor switch and check that the motor stops before the work.

2-3 Adjustment of folder

- ☆ The position for installing the folder is according to folding style and the tape width.
- ☆ If the tape is folded uneven, make sure lower tape outlet④ of folder② is set lower than the surface of stitch plate.
- ☆ Adjust the position of knife(=trimming width) according to finishing width of tape.





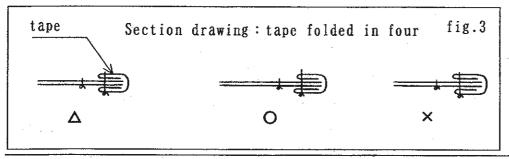
How to adjust

- ☆ Loosen screw② and adjust the right and left position of folder.
- ☆ Loosen screw③ and adjust the up-and-down position and tilt in right and left of folder.
- ☆ For up-and-down position, adjust folder① so that its lower tape outlet④ is set below the surface of stitch plate.

☆ For the tilt, to obtain finish with the tape sewn wider on bottom(=narrower on top, See fig.3), adjust folder so that its lower tape outlet is set closer to stitch plate for 0.5 - 1.0 mm than upper outlet.
For the adjustment, loosen screw③ and tilt folder① to left up direction.

☆ For the right and left position, set folder① to make the distance of 3.5-4.0 mm between the right needle and the inmost part of tape outlet of folder①.

NOTE for your reference... With the tape width 25 mm, right needle stitch is on the line 3.5 - 4.0 mm from the right edge at standard. See fig.2.

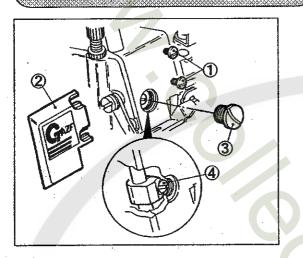


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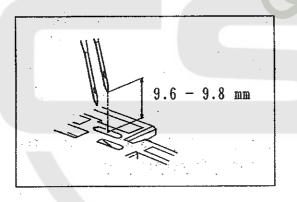
WARNING —

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2-4 Adjustment of needle height



- 1. Loosen screws(1) and remove logo plate(2).
- 2. Remove screw3.
- 3. Rotate machine pulley manually to position the needle bar at its top dead point.
- 4. Loosen screw (4) and adjust the needle bar in up and down.



«AZR8920G class»

Set the needle height from the top surface of stitch plate to the tip of right needle to be 9.6 - 9.8 mm at the top of its stroke.

- CAUTION

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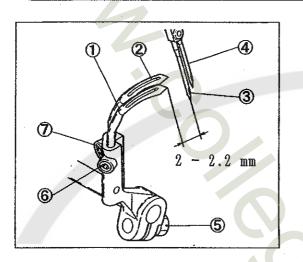
The tightening torque of screw on needle bar connecting bracket is 1.5 N·m(15kgf·cm).

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WARNING -

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2-5 Needle and double chaining looper



☆Timing

Insert double chaining loopers (1) and (2) to looper holder and the height of them are fixed by their touching to the bottom of holder. Loosen screw (5) and adjust looper (1) and (2) to make the distance of 2.0 - 2.2 mm between the center of left double chaining needle (3) and the tip of left looper (1) at the leftmost point of their stroke.

On this adjustment, tighten screws⁽⁶⁾ and ⁽⁷⁾ on loopers to fix looper⁽¹⁾ and ⁽²⁾ temporarily with the angle approximately 2°, and adjust the distance between needles and loopers⁽¹⁾ and ⁽²⁾ with adjusting the longitudinal position of the tip of loopers and needles. The position of right double chaining looper⁽¹⁾ is set automatically according to the distance between needle and left double chaining looper⁽²⁾.

★Longitudinal position

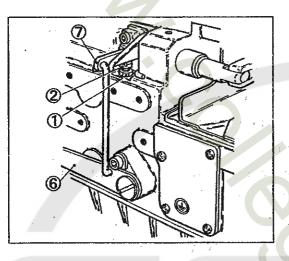
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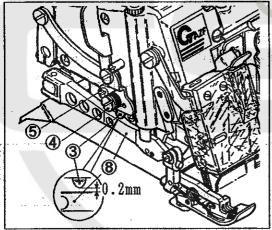
The tips of loopers(1) and (2) pass behind of needles as closely as possible without contact. The loopers pass in front of needles as contact slightly with their curved portions on the ways of loopers right to left.

WARNING -

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2-6 Adjustment of lifiting amount of presser foot





For AZR8920G, maximum lifting amount of presser foot is 3.5 mm.

- 1. Loosen lock nut(1) and rotate screw(2) clockwise.
- Loosen screws (4) and (5) on stopper (3) of presser foot arm.
- Push down presser foot lever[®] and make bottom surface of presser foot to be in parallel with the stitch plate and to be
 5 mm above the top surface of stitch plate.
 - With presser foot is lifted up 3.5 mm, rotate screw② counterclockwise until its top surface contacts presser foot shaft lever⑦.
 - 5. Tighten lock nut ①.

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- 6. With presser foot is lifted up 3.5 mm, make the clearance of 0.2 mm between presser foot arm⁽³⁾ and stopper⁽³⁾.
- 7. Tighten screws (4) and (5) on presser foot arm stopper (3).

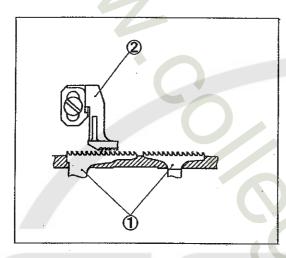
AZR8920G

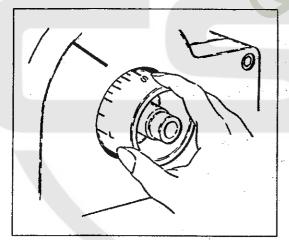


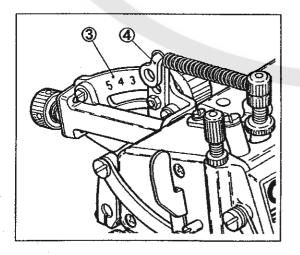
WARNING -

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3-1 Adjustment of top feeding amount against lower feed







For AZR8920G, top feed and lower feed drives separately. See the following points.

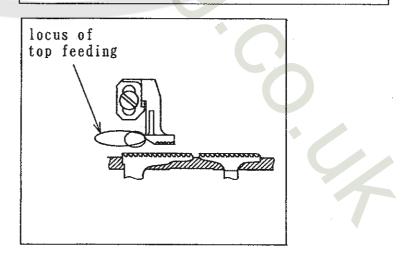
- ☆ When the feeding amount of lower feed (stitch length) is changed, the feeding amount of top feed has to be changed accordingly.
- ☆ The standard ratio of lower feeding to the top feeding is 1:1.
- ☆ The actual feeding amount of top feed② is twice of the number indicated on top feed
 graduation③.
- When the graduation of pulley is at "2" (stitch length: 2mm), set the top feed lever (4) at "1" on top feed graduation (3).
 *Maximum top feeding amount: 7.0 mm.

- CAUTION

According to the material to be sewn, change the position of top feed lever ④ slightly.

- CAUTION

Increasing top feeding amount makes locus of top feed to be extended backward without changing the front point of top feed.



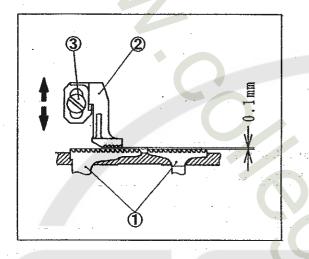
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3. Adjustment of top feeding

WARNING

ALWAYS turn OFF the motor switch and check that the motor stops before the work.

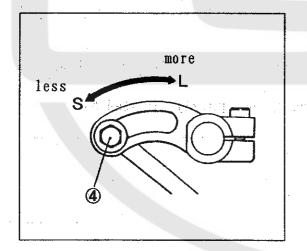
3-2 Adjustment of clearache between top feed dog and lower feed dog



Stable feeding can be obtained by adjusting the height of top feed dog according to the application, type and weight of fabric to be sewn.

The clearance between the top feed dog and the lower feed dog should be 0.1 mm when the top feed is at bottom dead point and the lower feed is at top dead point. For adjustment, loosen screw(3).

3-3 Adjustment of up and down movement of top leed dog

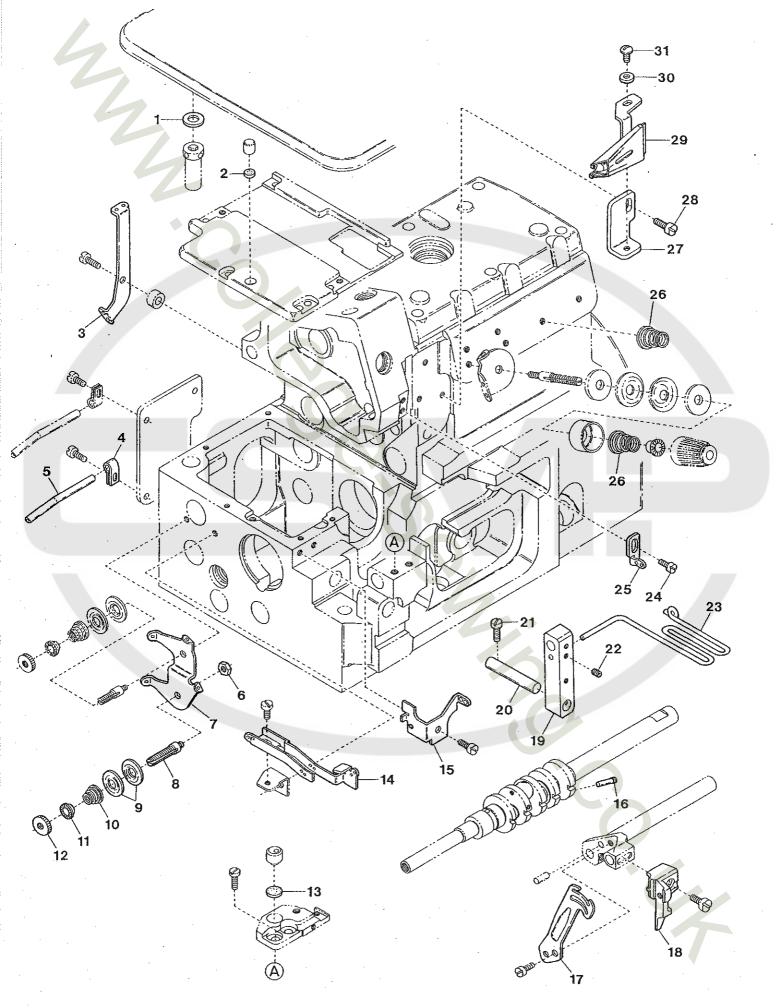


Up and down movement of top feed dog can be adjusted from 3.5 mm to 6.0 mm. For adjustment, remove top cover, loosen screw@ and moving it to the direction "L" increases the moving amount and to the direction "S" decreases it.

4 . Specifications

Model	AZR8920G-CDF			
Dimensions	$380(L) \times 245(W) \times 310(H) mm$			
Weight	28kg			
Construction	Dust-proof, Oil-tight and Completely Sealed			
Stitch Type	ISO(401·401)			
Application	Piping Operation of pockets with woven fabrics			
Sewing Speed	6,500 r.p.m.			
Stitch Length	1.0 - 4.0 mm			
6.5 - 25 stitches per inch				
	7.5 - 30 stitches per 30 mm			
Sharpest Curve	/ED			
to be sewn	45R			
Soming: Width	25 mm of tape width \rightarrow 10 mm(standard)			
Sewing Width	30 mm of tape width \rightarrow 12.5 mm (optional)			
Needle Distance	5 mm			
Needle System	$DC \times 27$, Size65 - 90(#9 - #14)			
Needle Stroke	25.7 mm			
Presser Foot Lift	3.5 mm(max.)			
Adjustment of				
Stitch Length	Push Button System			
Difftal Datis	Normal Differential(Gathering) 1:2.3			
Differential Ratio	Reverse Differential (Stretching) 1:0.7			
•Adjustment during the rotation is also available by lifting				
Adjustment of	and lowering lever. •Differential feed can be easily and quickly adjusted by Lever or Micro-Adjuster.			
Differential Ratio				
Feeding Amount of	7.0 mm			
Top Feed Dog				
Basis of Top Feed	Proved of Learning			
Movement	Front of Locus			
Up and Down Movement				
of Top Feed Dog	3.5 - 6.0 mm			
Lifting Amount of				
Top Feed Dog	7.0 - 7.5 mm			
Knives for	Lower Knife : Flat Type, made of Special Steel			
Cutting Fabric	Upper Knife : Flat Type, made of Super Hard Alloy			
Lubrication Oil	YAMATO SF OIL No.28			
Capacity of	00000			
Oil Reservoir	900CC			
Lubrication				
	Forced fed by Gear Pump in combination with Splash Lubrication			
Installation	Table Top Type			
Fully-submerged type / Semi-submerged type				



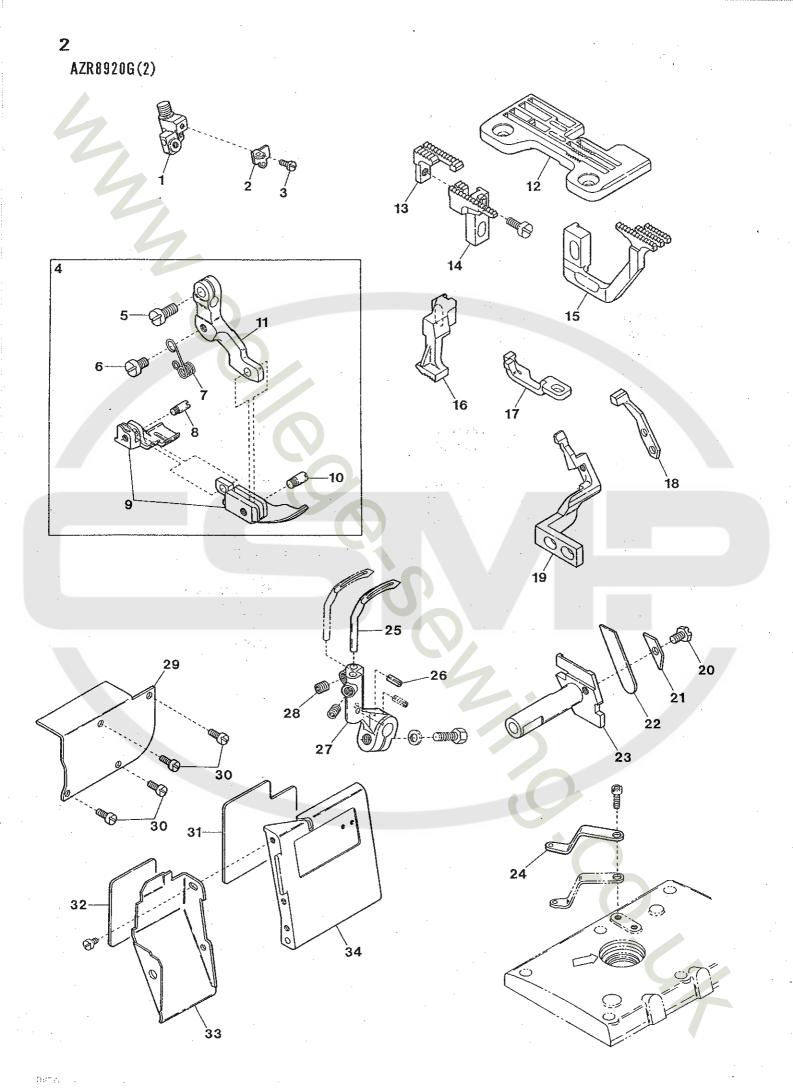


AZR8920G(1) EXCLUSIVE PARTS

<u>サブクラス専用部品(1</u>)

-1

Ref.	Parts		Amt.
No.	No	Description	
1	300040	<u>Description</u> Washer ・・・・・・・・・・・フ	ッジャ・・・・・・・・····
2	000933	Rubber Cushion(Medium) ・・・・埋	メ座 (中) ・・・・・・・1
3	2150301	Chaining Looper Thread Eyelet(Rear)	
4	0093528	Looper Thread Pipe Stay・・・・糸	
5	0021735	Looper Thread Pipe • • • • • • • 永	
6	000340	Nut • • • • • • • • • • • • • • • • • • •	
7	2150303	Tension Disc Eyelet • • • • • • – <u> </u>	重環調子台糸道・・・・・1
8	006348	- Tension Post ・・・・・・・・・糸	調子棒・・・・・・・・・1
9	0020124	Tension Disc · · · · · · · · · · · · · · · ·	重環糸調子皿・・・・・・2
10	0020125	Double Chaining Looper Tension • = 1	重環糸調子バネ・・・・・1
11	0020126	Tension Spring Bushing ••••=	重環糸調子ナット回リ止メ・1
12	000182	Adjusting Nut・・・・・・・・調算	節ナット・・・・・・・・1
13	000932	Rubber Cushion(Large) · · · · · · 埋	メ座 (大) ・・・・・・・1
14	2150314	Double Chaining Looper Eyelet • • ====	
15	2150302	Chaining Looper Thread Eyelet(Left)	
16	150005	Screw(M3-0.5×3) ••••••詰	
17	2160019	Needle Thread Pull-off ・・・・。針	糸繰リ・・・・・・・・・・1
18	2150313	Upper Knife Holder(Flat Type) • • 上;	
19	0022963	Tape Guide Stay・・・・・・・テー	- プガイド支エ・・・・・1
20	0022981	Tape Guide Stay Shaft・・・・・テ-	- プガイド支エ軸・・・・1
21	110009	Screw(M4-0.7×8) ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	ネジ・・・・・・・・・・1
22	003638	Screw(M4-0.7×8) · · · · · 止 Screw(11/64-40×4) · · · · · 止	ネジ・・・・・・・・・・2
23	0022982	Tape Guide ・・・・・・・・テ	ープガイド・・・・・・・1
25	2150310	Needle Thread Eyelet(Left)(Double Ch	nain)・二重彙針糸道(左)・・・・・1
24	110001	Screw(M4-0.7×8) ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	ネジ・・・・・・・・・・1
26	0030255	Tension Spring(Double Chain Thread)	
27	2150312	Folder Bracket ・・・・・・・定	規取付台・・・・・・・・・1
28	110041	Screw(M4-0.7×8) ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	ネジ・・・・・・・・・・1
29	2150311	Screw(M4-0.7×8) ・・・・・・止 Folder ・・・・・・・・・・・・・・定	現・・・・・・・・・・・ <u>1</u>
30	000665	Washer \cdots	ツシャ・・・・・・・・・1
31	110104	$Screw(M4-0.7\times 8)$ · · · · · · · · · · · · · · · · · · ·	ネジ・・・・・・・・・・1



AZR8920G(2) EXCLUSIVE PARTS Ref. Parts

<u>サブクラス専用部品(2</u>)

2

Ref.	Parts			Amt.
_No	<u>Na</u>	Description Needle Clamp(C) • • • • • • •	品名	Req.
1	2169114	Needle Clamp(C) · · · · · · ·	 ・針止メ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	• • 1
2	2150300	Needle Clamp Eyelet • • • • •	・針止メ糸道・・・・・	• • • 1
3	110122	Screw(M2-0.4 \times 4) · · · · · · ·	 ・止ネジ・・・・・・・・ 	• • • 1
4	2167000	Presser Foot C. Set(C) • • • •	・押エ(組)・・・・・	•••1
5	004351	$Screw(9/64-40\times7)\cdot\cdot\cdot\cdot\cdot$	・止ネジ・・・・・・・	• • • 1
6	009730	$Screw(1/8-44\times5.3)$ · · · · ·	・止ネジ・・・・・・・	•••1
7	2127694	Presser Foot Spring • • • • •	・押エバネ・・・・・・	•••1
8	280004	$Screw(3/32-56\times2.4)$ · · · · ·	・止ネジ・・・・・・・	• • • 1
9	2167001	Presser Foot(Front/Rear) • • •		
10	004136	$Screw(1/8-44\times2.7)$ · · · · ·	・止ネジ・・・・・・・	· · · 1
11	2167004	Presser Foot Hinge • • • • •	・押エヒンジ・・・・・	•••1
12	2158001	Stitch Plate • • • • • • • • •	・針板・・・・・・・・	•••1
13	2159006	Auxiliary Feed Dog • • • • •	・小送リ・・・・・・・	•••1
14	2159004	Main Feed Dog • • • • • • • •	・後送リ・・・・・・・	•••1
15	2159004	Differential Feed Dog • • • •		
16	2169070	Top Feed Dog	・上送リ・・・・・・・	•••1
17	2159203	Needle Guard(Front) • • • • •	・針受ケ(前)・・・・・	•••1
18	2159201	Needle Guard(Right)(Rear) • • •	・針受ケ(右)(後)・・・・	\cdot \cdot \cdot 1
19	2159202	Needle Guard(Left)(Rear) • • •		
20	140010	Screw(M4-0.7 \times 6) · · · · · ·	・止ネジ・・・・・・・	· · · 1
21	2121113	Lower Knife Clamp • • • • • • • • • • • • • • • • • • •	・下メス押エ・・・・・	• • • 1
22	2121111	Lower Knife • • • • • • • • • •	・下メス・・・・・・	•••1
23	2150305	Lower Knife Holder • • • • •	・下メス台・・・・・・	•••1
24	2120536	Double Chaining Looper Eyelet •		
25	2109302	Double Chaining Looper ••••		
26	000035	Positioning Pin • • • • • • •	・位置決メピン・・・・・	• • • 1
27	2150306	Double Chaining Looper Holder •	・二重環ルーパ台・・・・	•••1
28	160003	Screw(M5-0.8 \times 3) · · · · · ·	 ・止ネジ・・・・・・・・ 	•••1
29	2150307	Looper Holder Cover • • • • •	・ルーパ台カバー・・・・	•••1
30	110009	screw(M4-0.7 \times 8) · · · · ·		
			-	
31	390672	Threading Chart • • • • • • •	・糸通シ図・・・・・・	•••1
32	390673	Threading Chart (Left) • • • •		
33	2150308	Chin Guard (Onenable) · · · ·	· 切图兹:>	1
34	2150309	Front Cover · · · · · · · ·	・前開キカバー・・・・	1