

# AZ6004G

高速度1本針2本糸継縫用  
オーバロックミシン  
1 Needle Overlock Stitch Machine  
For Abutted Seam

AZ6000Gの取扱説明書と調整が異なる部分を記載しています。

AZ6000Gの取扱説明書とあわせてご使用下さい。

Adjustments different with AZ6000G are mentioned in this book.

Read this book in combination with INSTRUCTIONS of AZ6000G.

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.

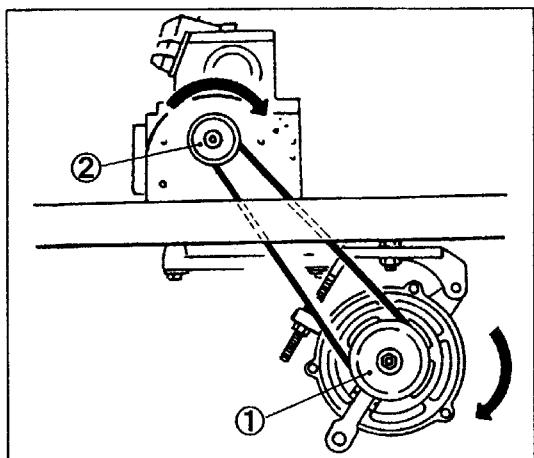
# 目次 / Contents

1. 縫い速度とプーリの回転方向	1
2. 正しい使い方	2
2-1 使用針	2
2-2 縫かぎり縫いのルーパ糸調子	2
3. ミシンの調整	3
3-1 針の高さ	3
3-2 下ルーパの引け量	3
3-3 上スプレッダの出量	4
3-4 下ルーパと上スプレッダのタイミング	4
3-5 押エの上がり量の調節	5
4. 仕様	6

1. Sewing speed and rotating direction of pulley	8
2. Proper operation	9
2-1 Needle system	9
2-2 Looper control for overedge stitch	9
3. Adjustment of sewing machine	10
3-1 Needle height	10
3-2 Distance between needle and lower looper	10
3-3 Timing between needle and upper spreader	11
3-4 Timing between lower looper and upper spreader	11
3-5 Adjustment of lifting amount of presser foot	12
4. Specifications	13

\* \* \* \* \* ILLUSTRATED SPARE PARTS LIST \* \* \* \* \*

## 1. Sewing speed and rotating direction of pulley



The maximum sewing speed of this machine is shown at the table below.

To ensure long service life under good conditions, your new machine should be run lowered 15 - 20 % of the maximum sewing speed during the first 200 hours (approximately one month).

The rotating direction of the motor pulley① and the machine pulley② is clockwise as shown in the figure.

### **CAUTION**

If machine rotate in reverse, oil could not circulate.

It may cause the machine trouble.

**Maximum sewing speed(s.p.m.)**

AZ6004G	5500
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outside diameter of motor pulley (mm)	sewing speed of machine for	
	50 Hz	60 Hz
70		4600
75		5300
80	4700	
85	5300	

For your reference, the chart shows the outside diameters of the motor pulley and s.p.m. of the machine when using the clutch motor of 3-shape, 2-pole, 400W(1/2 HP).

A commercial pulley is provided at intervals of 5 mm in diameter.

The diameters on the chart are the nearest size to the calculated value.

### **CAUTION**

If a proper motor pulley is not used, machine sewing speed may exceed the maximum speed. The machine may be troubled.

## 2. Proper operation

### 2-1 Needle system

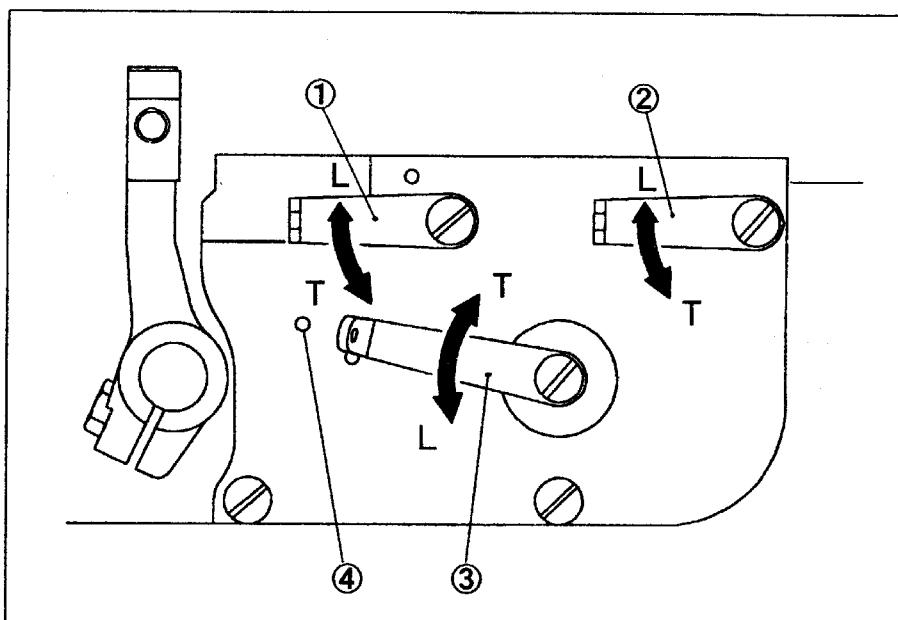
AZ6004G : DC×1(or 81×1)

Depend on the weight and type of material to be sewn, the proper needle and size should be selected.

#### ■Needle size

Japanese standard	11	12	13	14
Metric standard	75	80	85	90

### 2-2 Looper thread control for overedge stitch



The standard setting of each looper thread eyelet is as follows ;

- 1) Make the lower looper eyelet ① and ② to be aligned.
- 2) Make the eye of lower looper thread pull-off ③ to line up to the notch mark ④ when the lower looper is at the rightmost of its stroke.

\* Moving each thread eyelet and the thread pull-off to the direction "T" tightens thread tension and moving them to the direction "L" loosens thread tension.

### 3. Adjustment of sewing machine

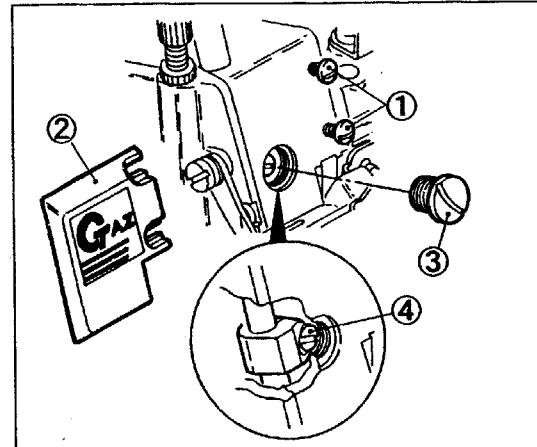


#### WARNING

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

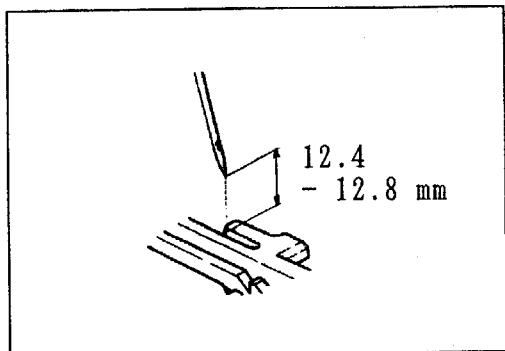
##### 3-1 Needle height

1. Loosen the screws① and remove the logo plate②.
2. Remove the screw③.
3. Rotate the machine pulley and position the needle bar at the top dead point.
4. Loosen the screw④ on needle bar connecting bracket and adjust the position of needle bar by moving it up and down.



##### 《AZ6004G》

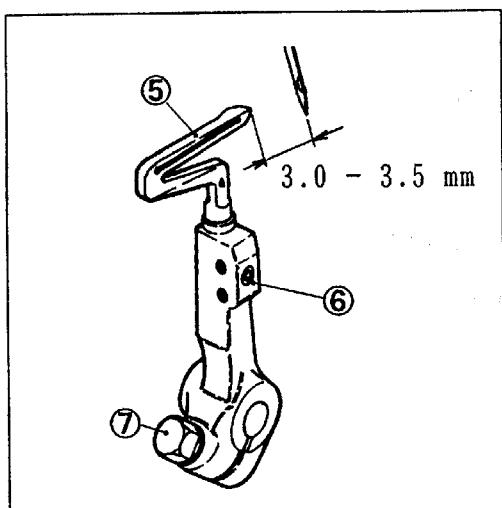
The needle height adjustment is made by locating the needle at the top of its stroke and setting the distance 12.4 – 12.8 mm from the tip of needle to the top of stitch plate.



#### CAUTION

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

##### 3-2 Distance between needle and lower looper



Loosen the screw⑦ on lower looper holder, rotate the machine pulley clockwise and adjust the lower looper⑤ to make the distance of 3.0 – 3.5 mm between the tip of lower looper and the center of needle when the lower looper is at the leftmost of its stroke.

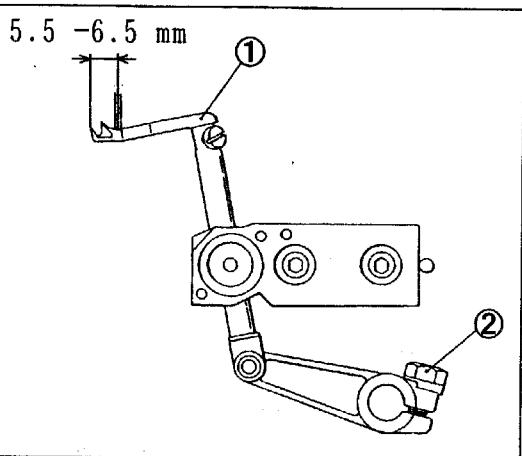
### 3. Adjustment of sewing machine



#### WARNING

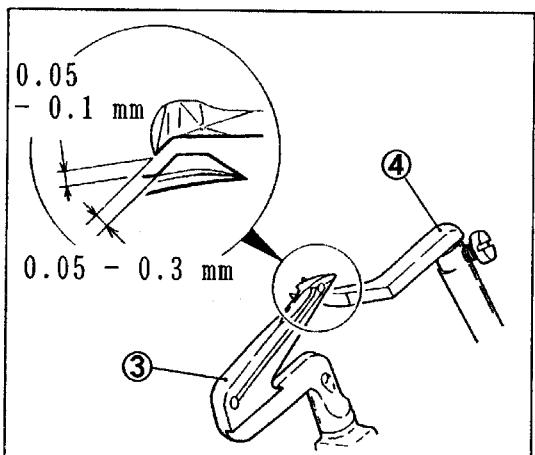
ALWAYS turn OFF the motor switch and check that the motor stops before the work.

#### 3-3 Timing between needle and upper spreader



Loosen the screw② on upper looper crank. Rotate the machine pulley clockwise and adjust the upper spreader to make the distance of 5.5 - 6.5 mm between the tip or upper spreader and the center of needle when the upper spreader is at the leftmost of its stroke.

#### 3-4 Timing between lower looper and upper spreader



Rotate the machine pulley clockwise and make sure the clearance in front and back is 0.05 - 0.1 mm and also the clearance in left and right is 0.05 - 0.3 mm when the lower looper③ meets with the upper spreader④. With those clearance, the timing between the needle and the looper is correct.

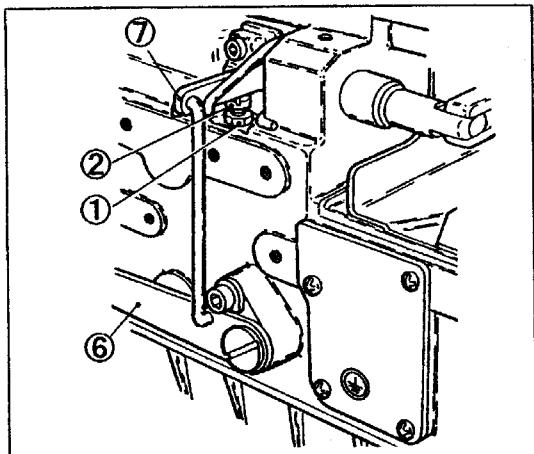
### 3. Adjustment of sewing machine



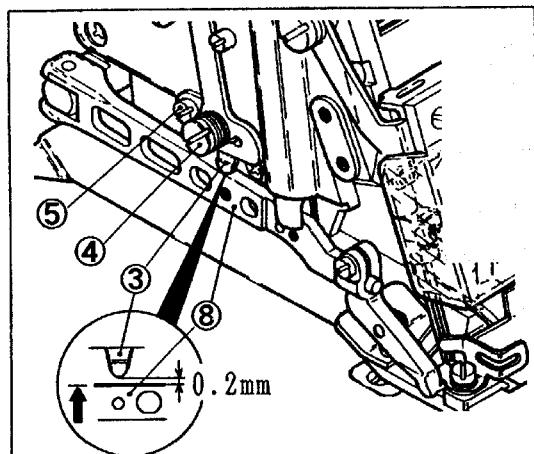
#### WARNING

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

#### 3-5 Adjustment of lifting amount of presser foot



Maximum lifting amount of presser foot is 3.5 mm.

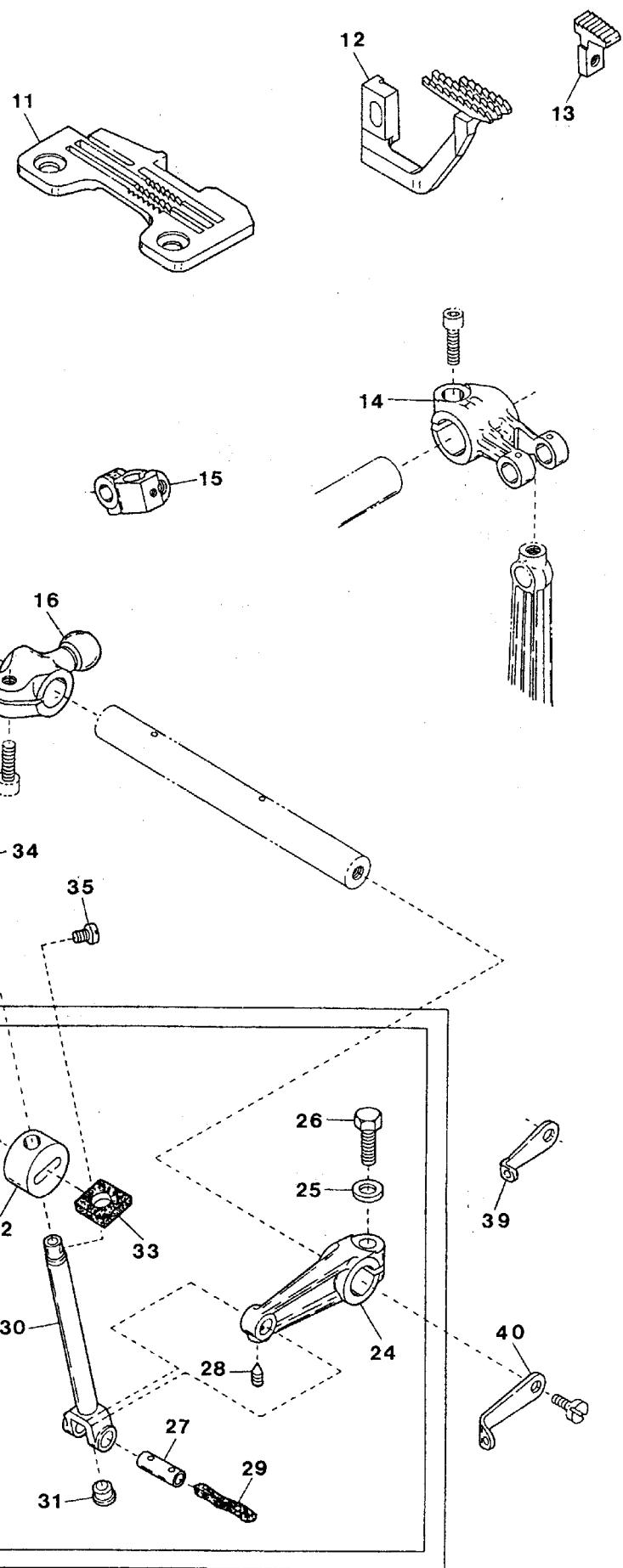
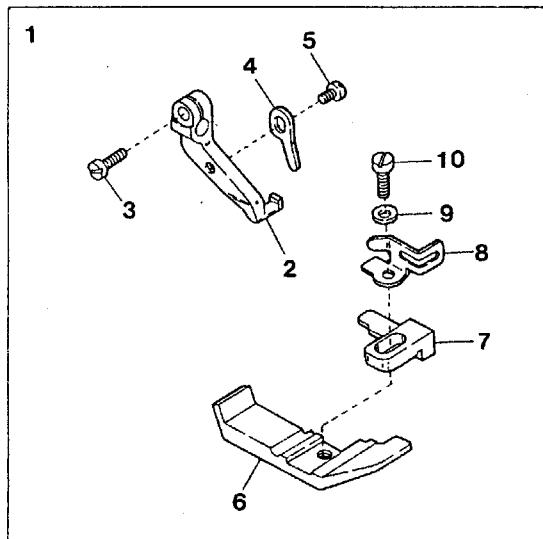


1. Loosen the lock nut① and turn the screw② clockwise.
2. Loosen the screws④ and ⑤ on the stopper③ of presser foot.
3. Push down the presser foot lever⑥ and make its bottom surface to be in parallel with the stitch plate and place the presser foot 3.5 mm above the top surface of stitch plate.
4. With the presser foot is lifted up 3.5 mm, apply the screw② to the bottom surface of the lever⑦ of presser foot bar.
5. Tighten the lock nut①.
6. With the presser foot is lifted up 3.5 mm, make the clearance of 0.2 mm between the presser foot arm⑧ and the stopper③.
7. Tighten the screws④ and ⑤ for the stopper③.

## 4. Specifications

Model	AZ6004G
Dimensions	380(L) × 245(W) × 310(H) mm
Weight	26.5kg
Construction	Dust-proof, Oil-tight and Completely Sealed
Stitch Type	503
Application	Overlock stitch sewing with abutted seam
Sewing Speed	Up to 5,500 s.p.m.
Stitch Length	1.0 - 4.0 mm 6.5 - 25 stitches per inch 7.5 - 30 stitches per 30 mm
Needle System	DC×1, Size 75 - 90 (#11 - 14)
Needle Stroke	25.7 mm
Presser Foot Lift	3.5 mm (max.)
Adjustment of Feeding Mode	Push Button System
Differential Ratio	Normal Differential (Gathering) 1 : 2.3 (max.) Reverse Differential (Stretching) 1 : 0.7 (max.) (1 : 0.6 is available by adjusting the position of lever pin on main feed dog)
Adjustment of Differential Feeding	Adjustment during the rotation is also available by lifting and lowering the lever.
Knives for Cutting Fabric	Lower Knife : Flat Type, made of Special Steel Upper Knife : Flat or Angled Type, made of Super Hard Alloy
Lubrication	Automatic Lubrication System (Forced fed by Trochoide-shaped Pump)
Lubrication Oil	YAMATO SF OIL No.28
Capacity of Oil Reservoir	900cc
Installation	Table top type Fully-submerged type / Semi-submerged type

## AZ6004G EXCLUSIVE PARTS(1)

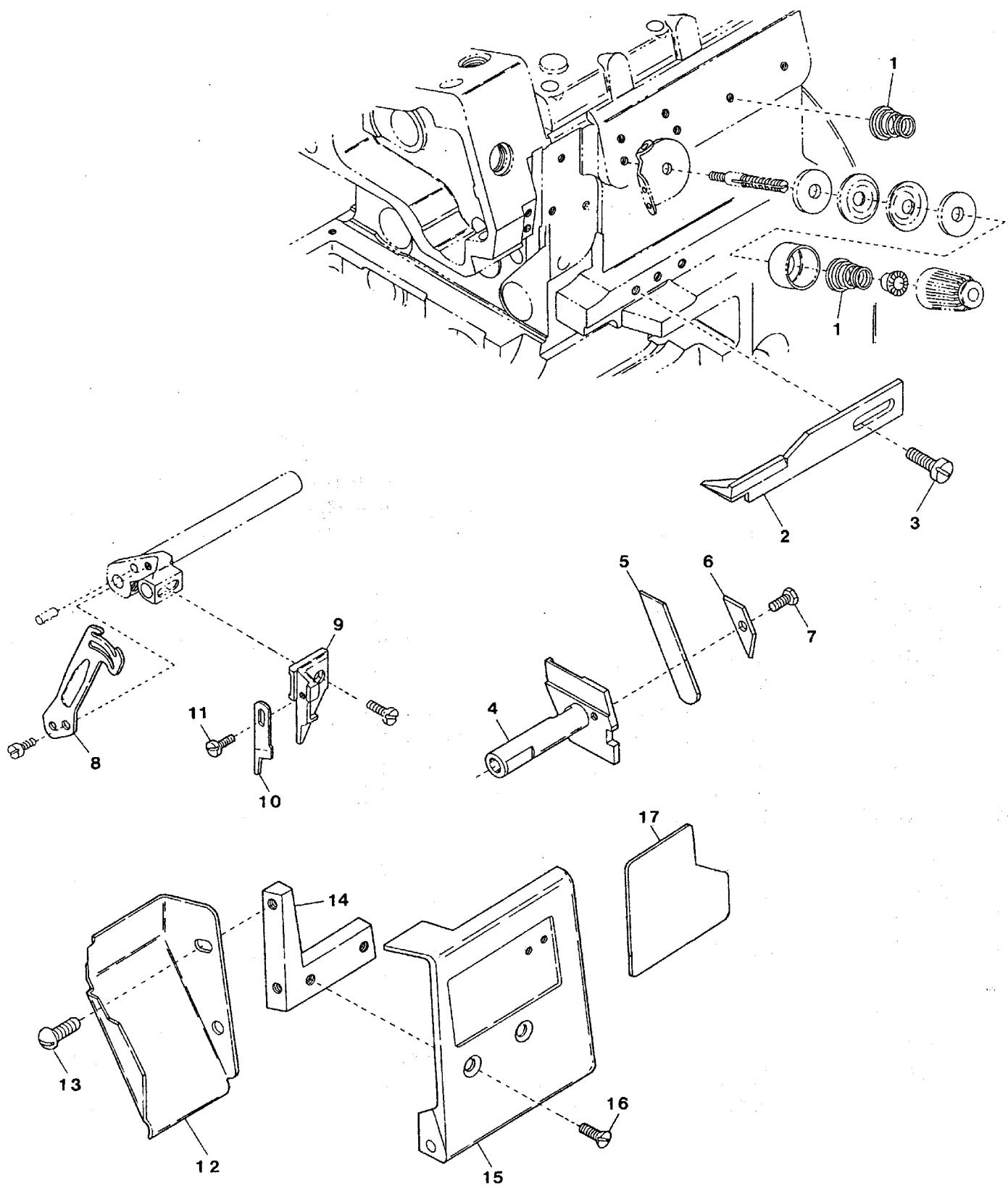


## AZ6004G EXCLUSIVE PARTS(1)

## サブモデル専用部品(1)

1

Ref.	Parts	Description	品名	Amt.	Req.
1	2157238	Presser Foot, Complete Set	押エ(組)	1	
2	2157000	Presser Foot Hinge	押エヒンジ	1	
3	110004	Screw(9/64-40×7)	止ネジ	1	
4	2157041	Presser Foot Half-stay	半固定片	1	
5	110001	Screw(M4-0.7×5.4)	止ネジ	1	
6	2107263	Presser Foot(Lower)	押エ(下)	1	
7	2107264	Presser Foot Stitch Tongue	爪	1	
8	2107643	Finger Guard	フィンガーガード	1	
9	000444	Washer	ワッシャ	1	
10	005036	Screw(1/8-44×5.6)	止ネジ	1	
11	2108096	Stitch Plate	針板	1	
12	2109009	Differential Feed Dog	前送リ	1	
13	2106011	Auxiliary Feed Dog	小送リ	1	
14	2100946	Needle Bar Driving Lever	針棒クランク軸腕	1	
15	2150059	Needle Bar Connecting Bracket	針棒抱キ	1	
16	2101141	Upper Looper Driving Lever	上ルーパ軸腕	1	
17	2100945	Driving Shaft Thrust Ring	上ルーパスラストリング	1	
18	2150516	Upper Looper Bar Crank Arm, C. Set	上ルーパクラシック(組)	1	
19	2150084	Upper Looper Bar Guide Bushing	ルーパ案内メタル	1	
20	2100227	Upper Looper Bar Guide Cover	ルーパ案内蓋	1	
21	130001	Screw(M2.5-0.45×6)	止ネジ	1	
22	110071	Screw(M2.5-0.45×6)	止ネジ	1	
23	2100885	Upper Looper Bar Guide, C. Set	ルーパ案内(組)	1	
24	2101089	Upper Looper Bar Crank Arm	上ルーパクラシック	1	
25	300008	Washer	ワッシャ	1	
26	140004	Screw(M6-1×16)	止ネジ	1	
27	2100903	Upper Looper Bar Crank Arm Pin	上ルーパクラシックピン	1	
28	160002	Screw(M4-0.7×5)	止ネジ	1	
29	310089	Oil Wick	油芯	1	
30	2100667	Upper Looper Bar	ルーパ棒	1	
31	000629	Seal Plug	詰栓	1	
32	2100892	Upper Looper Bar Guide	ルーパ案内	1	
33	310065	Oiling Felt	フェルト	2	
34	2129311	Upper Spreader(for Needle Size #11~14)	上スプレダ(針#11~14用)	1	
35	210009	Screw(1/8-44×3.2)	止ネジ	1	
36	2109346	Lower Looper	下ルーパ	1	
37	2100947	Standard Pin	基準ピン	1	
38	2100905	Lower Looper Driving Shaft Thrust Ring	下ルーパスラストリング	1	
39	2120535	Lower Looper Thread Eyelet	下ルーパ糸道	2	
40	2101282	Upper Looper Thread Pull-off	上ルーパ糸練り	1	



## AZ6004G EXCLUSIVE PARTS(2)

## サブモデル専用部品(2)

2

Ref.	Parts	Description	品名	Amt.	Req.
No.	No.				
1	0032952	Needle & Lower Looper Thread Tension Spring 鈎糸・下ルーパン子バネ	・・2		
2	2101280	Supplementary Stitch Tongue 補助爪	・・・・・	1	
3	110047	Screw(M4-0.7×10) 止ネジ	・・・・・	2	
4	2121236	Lower Knife Holder 下メス台	・・・・・	1	
5	2121111	Lower Knife 下メス	・・・・・	1	
6	2121237	Lower Knife Clamp 下メス押エ	・・・・・	1	
7	140010	Screw(M4-0.7×6) 止ネジ	・・・・・	1	
8	2150521	Needle Thread Pull-off 針糸繰リ	・・・・・	1	
9	2121234	Upper Knife Holder(Flat Type) 上メスホルダ(平)	・・・・・	1	
10	2121235	Upper Knife 上メス	・・・・・	1	
11	110004	Screw(M3.5-0.6×8) 止ネジ	・・・・・	1	
12	2101277	Chip Guard(Openable) 切屑落シ板	・・・・・	1	
13	110106	Screw(M4-0.7×8) 止ネジ	・・・・・	4	
14	2101278	Chip Guard(Openable) Support 切屑落シ板取付台	・・・・・	1	
15	2150501	Front Cover(Right) 前開キカバー	・・・・・	1	
16	130006	Screw(M4-0.7×10) ネジ	・・・・・	2	
17	390680	Threading Chart 糸通シ図	・・・・・	1	