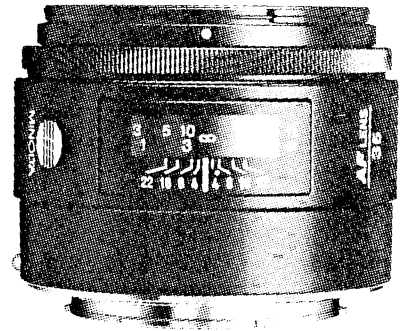
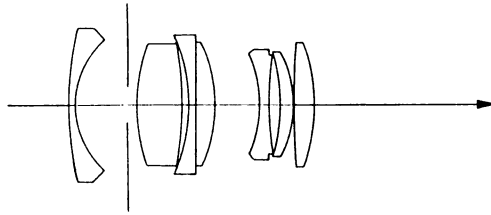


**MINOLTA AF 35mm F2 (2597-100)**  
**MINOLTA MAXXUM AF 35mm F2 (2597-600)**

**LENS**



Construction : 7 elements in 6 groups  
 Type : Retrofocus  
 Coating : Minolta Achromatic  
 Angle of view : 63°  
 Lens mount : Minolta A mount  
 Lens signal contact : 5 contacts  
 Diaphragm : Automatic preset diaphragm  
 F No. : Maximum 2  
           Minimum 22  
           Full-stop setting 7 stops  
 Diaphragm blade : 7 blades

**DIMENSIONS & WEIGHT**

Dimensions :  $\phi 66.5$  (max. diameter)  $\times$   
                   48.5mm (max. length)  
 Weight : 235 g  
 Filter-thread diameter :  $\phi 55$ mm (P=0.75)  
 Lens hood diameter :  $\phi 55$ mm (Bayonet type)

**FOCUSING**

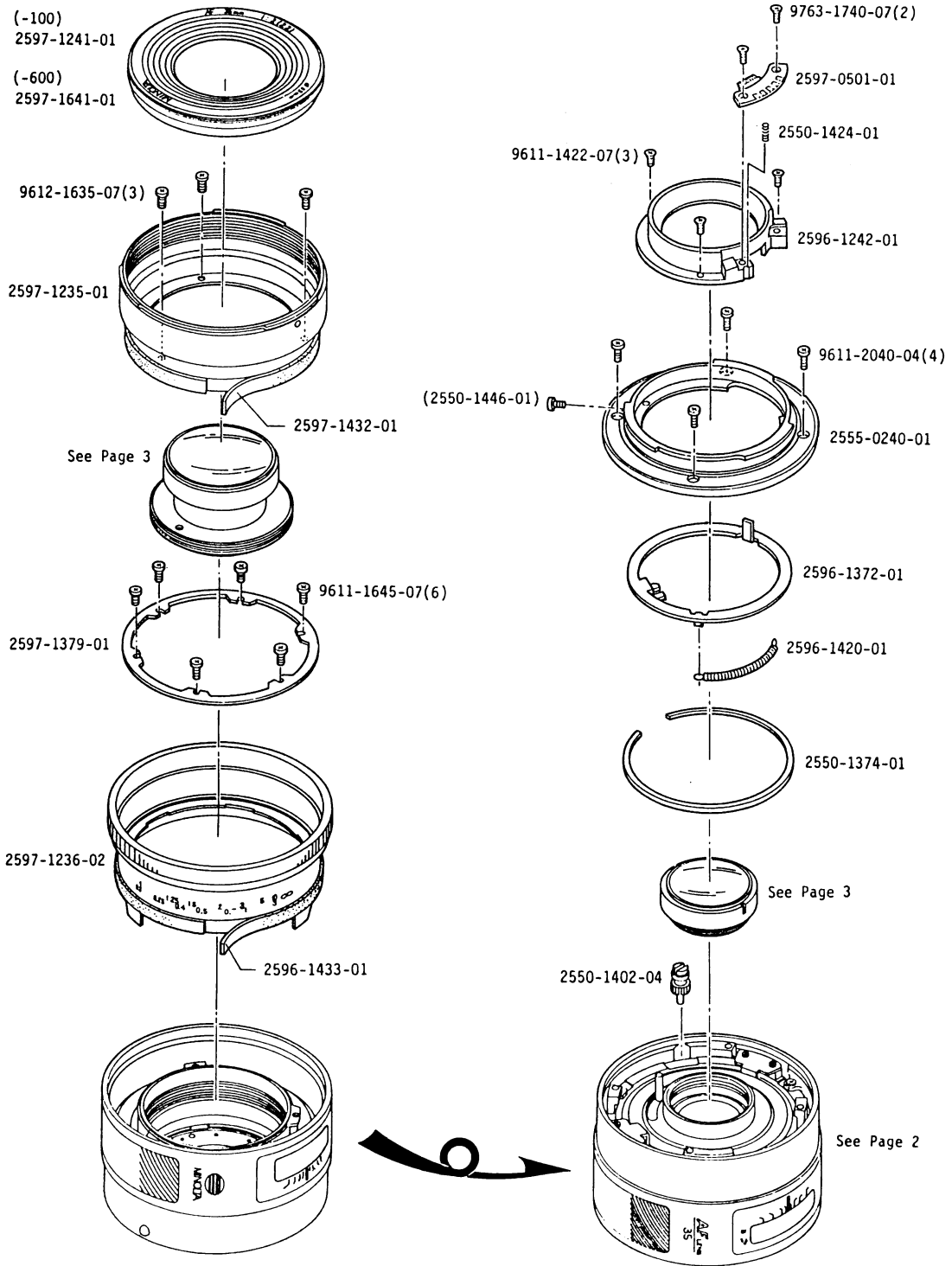
Focusing : AF, FA, M  
 Type : Double helicoid system  
 Minimum focusing distance : 0.3m  
 Distance scale :  $\frac{1 \quad 1.25 \quad 1.5 \quad 2 \quad 3 \quad 5 \quad 10 \quad \infty \text{ (ft)}}{0.3 \quad 0.35 \quad 0.4 \quad 0.5 \quad 0.7 \quad 1 \quad 3 \quad \infty \text{ (m)}}$   
 Infrared correction scale : Yes  
 Depth-of-field scale : 4 8 16 22

**ACCESSORIES**

Lens case : LH-1031  
 Lens hood : 6597-810

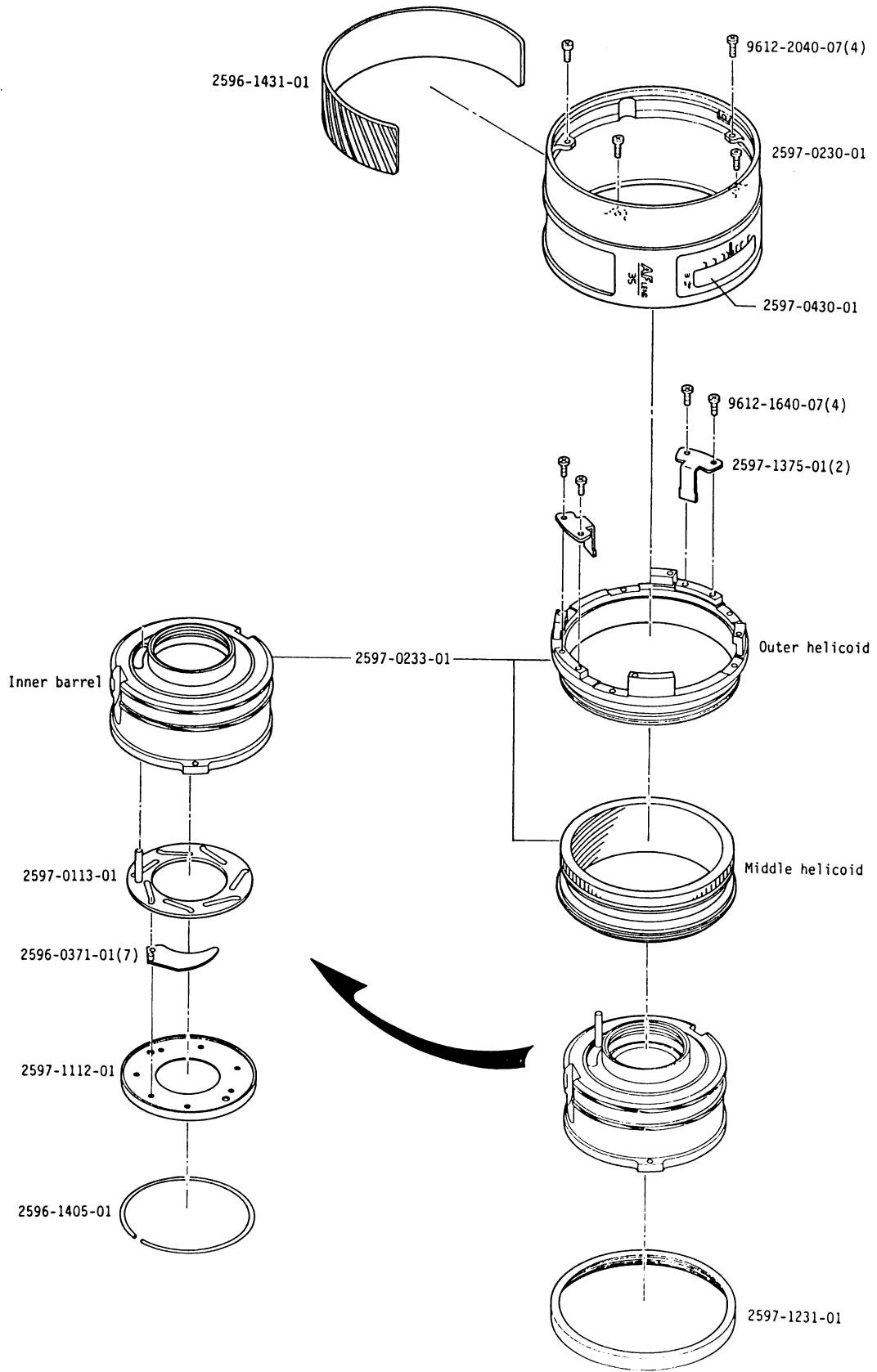
I n d e x

Part No.	Page	Part No.	Page	Part No.	Page
2597-0101.....	3	2596-1405.....	2		
2597-0102.....	3	2596-1420.....	1		
2597-0113.....	2	2550-1424.....	1		
2597-0230.....	2	2596-1431.....	2		
2597-0233.....	2	2597-1432.....	1		
2555-0240.....	1	2596-1433.....	1		
2596-0371.....	2	2550-1446.....	1		
2597-0430.....	2				
2597-0501.....	1	2597-1641.....	1		
2597-1112.....	2	9611-1422-07 .....	1		
		9611-1645-07 .....	1		
2597-1231.....	2	9611-2040-04 .....	1		
2597-1235.....	1				
2597-1236.....	1	9612-1635-07 .....	1		
2597-1241.....	1	9612-1640-07 .....	2		
2596-1242.....	1	9612-2040-07 .....	2		
2596-1372.....	1	9763-1740-07 .....	1		
2550-1374.....	1				
2597-1375.....	2				
2597-1379.....	1				
2550-1402.....	1				



Part No	Part Name		Qty.
2555-0240-01	Bayonet mount set	バヨネットマウントセット	1
(2550-1446-01)	Screw	ストッパービス	1
2597-0501-01	Lens contact board set	信号基板セット	1
2597-1235-01	Front ring	鏡頭環	1
2597-1236-02	Focusing ring	距離リング	1
2597-1241-01	Name ring (-100)	飾り環	1
2596-1242-01	Light shield ring	後遮光筒	1
2596-1372-01	Preset ring	プリセットリング	1
2550-1374-01	Preset ring perssure	プリセットリング押え	1
2597-1379-01	Focusing ring set plate	距離環締付板	1
2550-1402-04	Coupler	カプラー	1
2596-1420-01	Main spring	メインスプリング	1
2550-1424-01	Spring	アーススプリング	1
2597-1432-01	Friction plate	鏡頭環摩擦布	1
2596-1433-01	Friction plate	距離リング摩擦布	1
2597-1641-01	Name ring (-600)	飾り環	1
9611-1422-07	Phillips type screw	十字穴付なべ小ねじ	3
9611-1645-07	Phillips type screw	十字穴付なべ小ねじ	6
9611-2040-04	Phillips type screw	十字穴付なべ小ねじ	4
9612-1635-07	Phillips type screw	十字穴付なべ小ねじ	3
9763-1740-07	Tap tite screw	十字穴付タップタイトねじ	2

AF 35mm F2(22) Code No.2597-100  
MAXXUM AF 35mm F2(22) Code No.2597-600



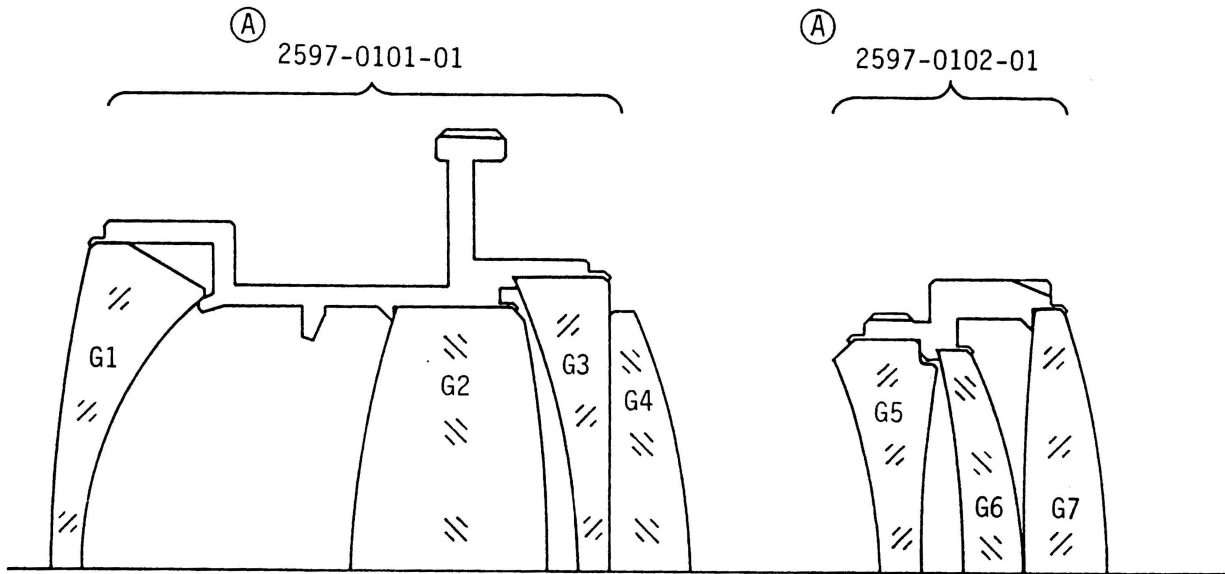
Part No	Part Name		Qty.
2597-0113-01	Diaphragm operation plate set	絞り操作板セット	1
2597-0230-01	Outer ring set	固定保持環セット	1
2597-0233-01	Helicoid set	ヘリコイドセット	1
2596-0371-01	Diaphragm blade set	絞り羽根セット	7
2597-0430-01	Distance scale window set	距離表示窓セット	1
2597-1112-01	Diaphragm pressure ring	絞り押え環	1
2597-1231-01	Helicoid pressure ring	中ヘリコイド押え	1
2597-1375-01	Helicoid key	直進キー	2
2596-1405-01	Pressure spring	絞り押え環SP	1
2596-1431-01	Leather	貼皮	1
9612-1640-07	Phillips type screw	十字穴付なべ小ねじ	4
9612-2040-07	Phillips type screw	十字穴付なべ小ねじ	4

■ When repairing following parts, must be checked resolving power by projection.

■ 下記部品を修理した場合は、必ず投影解像力を確認して下さい。

Ⓐ: The influential lens group in the lens performance. (Influence: In alphabetical order)

Ⓐ: レンズ性能によく影響するレンズ群。(影響度: アルファベット順)



Part No	Part Name	Qty.
2597-0101-01	Front lens set 前玉群セット	1
2597-0102-01	Rear lens set 後玉群セット	1

# REPAIR GUIDE

■ The contents of this manual are in accordance with the assembling procedure. Therefore, follow the reverse procedure when disassembling.

## —Description of marks used—

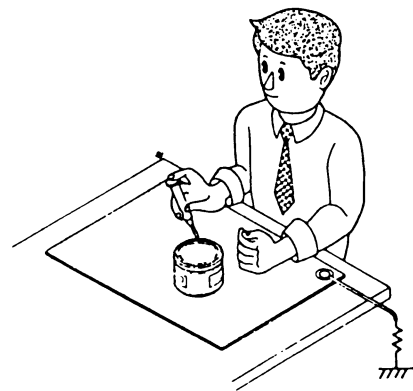
- B : Adhesive
- S : Solvent
- A : Anti-diffusion compound
- G : Lubricant
- T : Tool
- : Point of assembling and general caution

## ■ Assembly and adjustment procedure

	Page
① Diaphragm blades, Inner barrel, Middle helicoid, Outer barrel .....	1
② Outer ring, Bayonet mount, Rear lens group set, Light shield ring, Lens contact board set .....	2
■ Helicoid height adjusting .....	2
■ Aperture diameter adjusting and pre-checking .....	2
③ Focusing ring, Front lens group set, Front ring, Name ring .....	3
■ Flange back adjusting .....	3
■ Projection resolving power checking .....	3
■ Pperture diameter checking .....	3
■ General function checking .....	3
■ Aescription of focusing .....	4
■ Wiring schematic diagram and Printed wiring diagram .....	4

## ■ Precautions

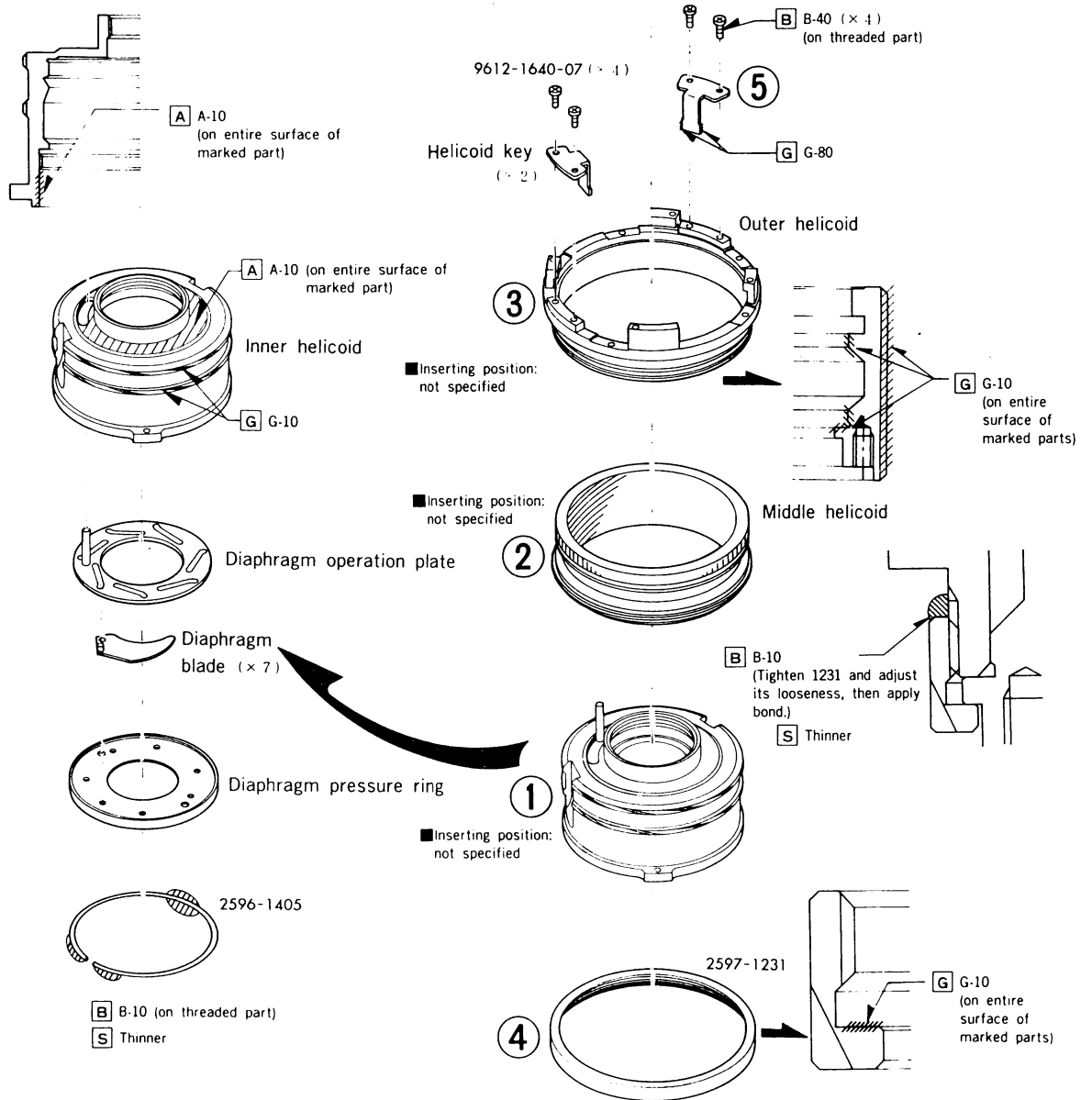
- Since this lens uses many resin parts, keep the following in mind when assembling and adjusting.
  - Use Flonsolve or alcohol when cleaning. Never use the thinner, ketone or ether.
- Since MOS-IC is used in this lens, it is necessary to take special precautions about static electricity. When performing repairs, use the conductive mat without fail, as shown.





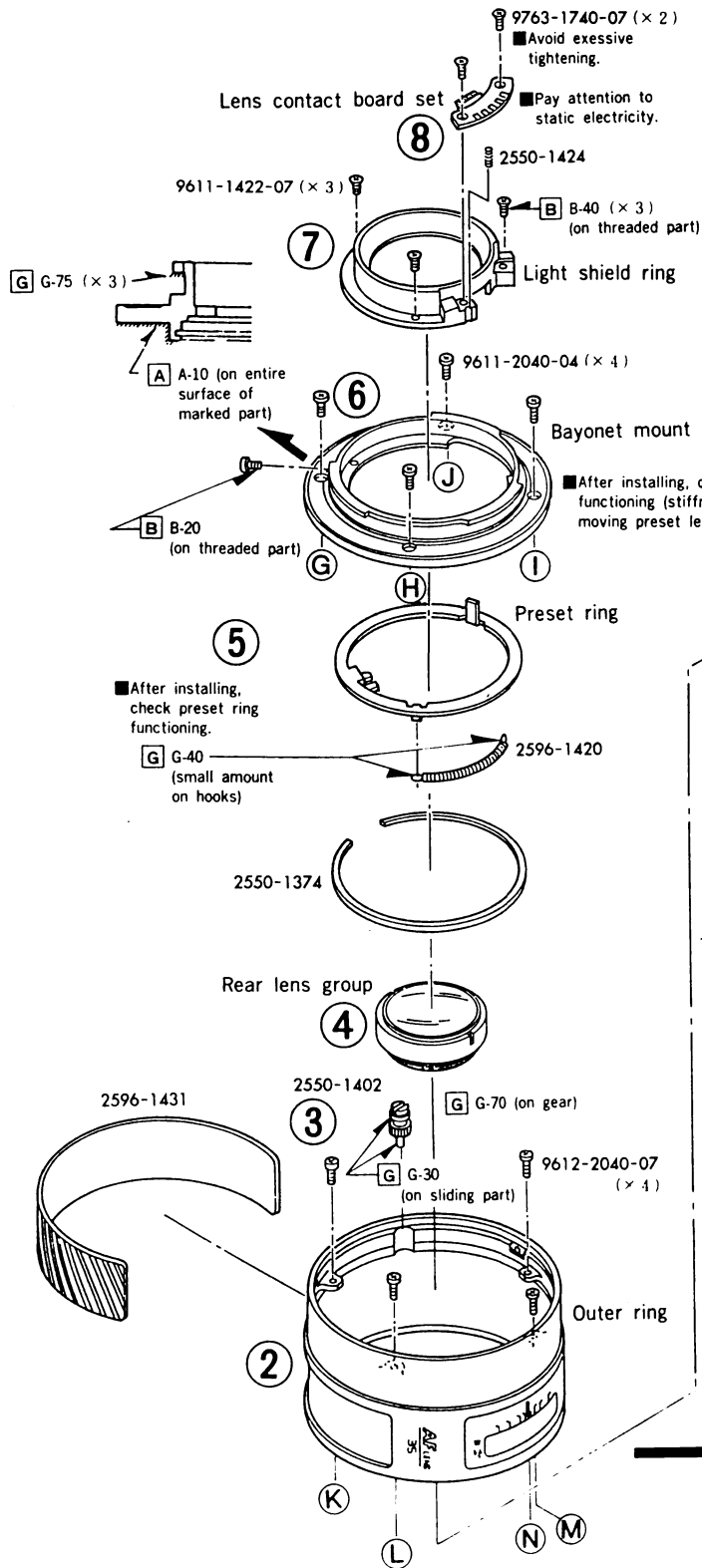
# 1 Diaphragm blades, Inner barrel, Middle helicoid, Outer barrel

- Assemble the parts in order of ①-⑤.
- After assembling, check the helicoid functioning (stiffness, smoothness, catching).



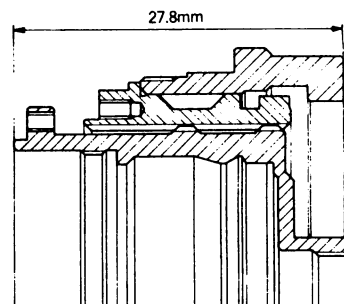
## 2 Outer ring, Bayonet mount, Rear lens group set, Light shield ring, Lens contact board set

■ Assemble the parts in the order of ①→⑧. After assembling, perform aperture diameter adjusting (including pre-check, referring to General checking/adjusting procedure on p. 8, 9).

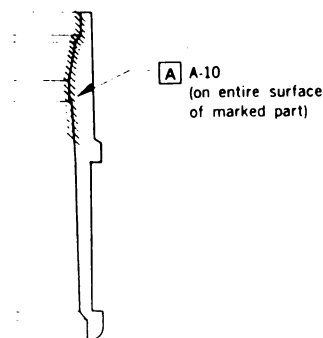
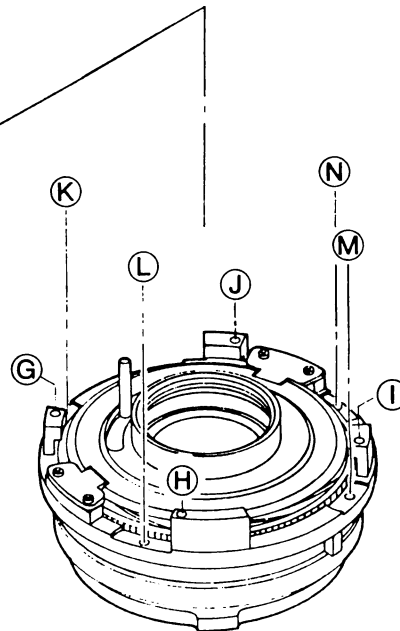


■ Fig. 1 Helicoid position, level adjusting.

● Set the helicoid lever as shown, at infinity (∞) setting.

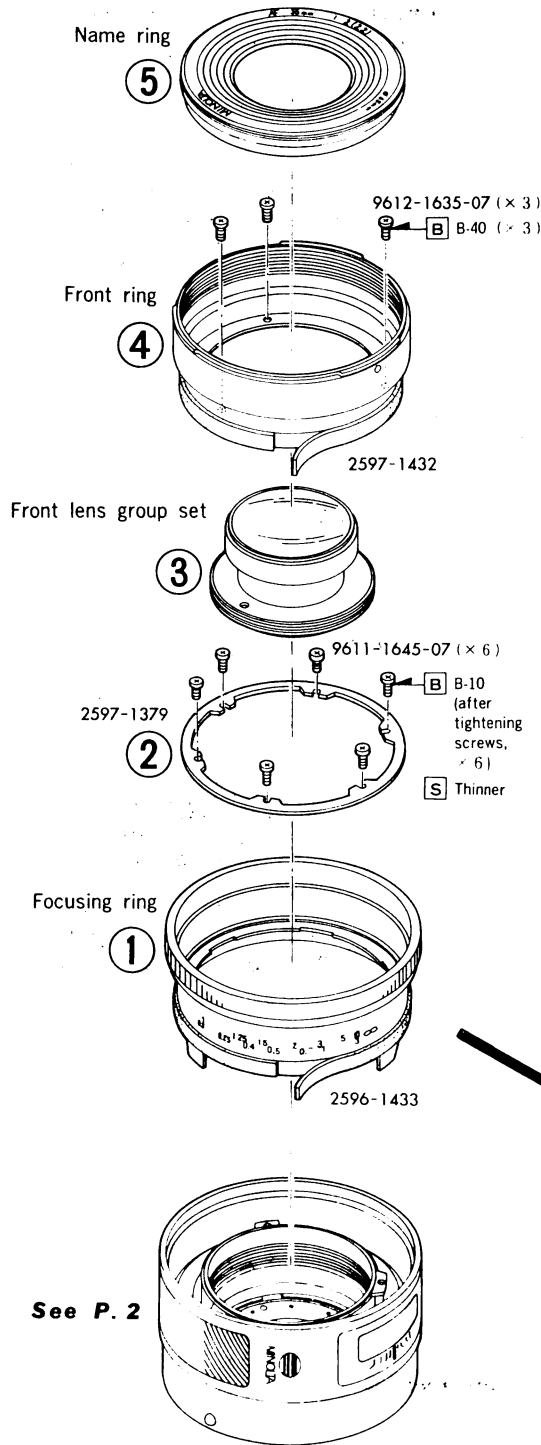


■ After installing, check diaphragm blade functioning (stiffness, catching), with moving preset lever.



### 3 Focusing ring, Front lens group set, Front ring, Name ring

■ Assemble the parts in order of ①-⑤.



See P. 2

■ After assembling, check aperture diameter (referring to General checking/adjusting procedure on p. 9).

■ Check general functioning. (referring to General checking/adjusting procedure on p. 14).

■ After assembling, perform the following adjusting.

1. Flange back adjusting (referring to General checking/adjusting procedure on p. 1).

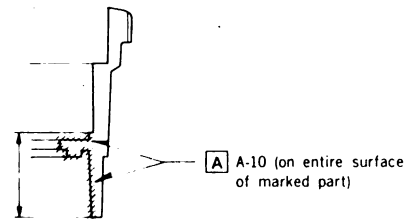
$$\text{Allowable range } f'F = 44.56^{+0.03}_0$$

2. Projection resolving power checking (referring to General checking/adjusting procedure on p. 6).

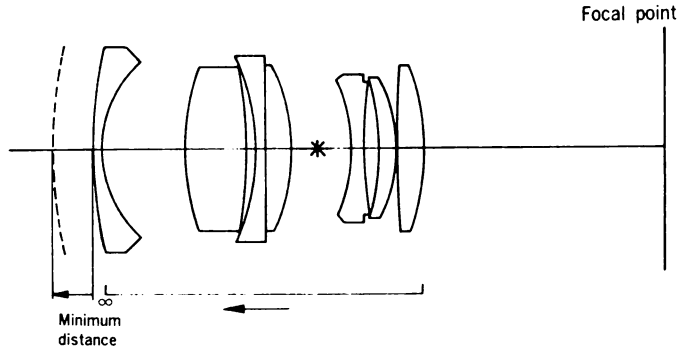
Allowable range for Servicing (min.)

f (mm)	Distance D (m)	Center (y' = 0mm)	y' = 15mm	
			S	M
35	0.8~1.5	100	40	32

S : Sagittal image M : Meridional image  
If out of allowable range, take following measures.



## ■ Description of focusing



- Double helicoid system.  
By rotating AF coupler or focusing ring, all optical lens move in the same way.

## ■ Wiring schematic diagram, printed wiring diagram

