CONTENTS

A. OUTLINE OF PRODUCT
1. MERCHANDISE NAME AND CODE IN OLYMPUS .......... A-1
2. OUTLINE OF MERCHANDISE ................................ A-1
3. FEATURES ............................................ A-1
4. RESTRICTED CONDITIONS ............................... A-1
5. SPECIFICATIONS ...................................... A-1

B. DISASSEMBLY
1. DISASSEMBLY OF WHOLE UNIT ........................... B-1
2. DISASSEMBLY OF HEAT ABSORPTION TUBE ASS'Y .......... B-8
3. DISASSEMBLY OF SHUTTER ASS'Y ....................... B-8
4. DISASSEMBLY OF LENS FRAME ASS'Y .................... B-9
5. DISASSEMBLY OF AS ASS'Y ............................ B-9
6. DISASSEMBLY OF FS ASS'Y ............................. B-10
7. DISASSEMBLY OF CONNECTOR ............................ B-11
8. DISASSEMBLY OF DOVETAIL ASS'Y ..................... B-11
9. DISASSEMBLY OF DOVETAIL MOUNT ..................... B-12

C. ASSEMBLY AND ADJUSTMENT
1. ASSEMBLY OF DOVETAIL MOUNT .......................... C-1
2. ASSEMBLY AND ADJUSTMENT OF DOVETAIL ASS'Y ......... C-1
3. ASSEMBLY OF CONNECTOR ............................... C-2
4. ASSEMBLY AND ADJUSTMENT OF FS ASS'Y ............... C-2
5. ASSEMBLY AND ADJUSTMENT OF AS ASS'Y ............... C-4
6. ASSEMBLY OF LENS FRAME ASS'Y ...................... C-5
7. ASSEMBLY OF SHUTTER ASS'Y ........................... C-5
8. ASSEMBLY OF HEAT ABSORPTION TUBE ASS'Y ............ C-6
9. ASSEMBLY AND ADJUSTMENT OF WHOLE UNIT .............. C-6

D. JIGS, TOOLS AND CHEMICALS
1. JIGS AND TOOLS ........................................ D-1
2. ADHESIVES AND GREASE ................................ D-1
CONTENTS

1. MERCHANDISE NAME AND SYMBOL IN OLYMPUS ............ A-1
2. OUTLINE OF MERCHANDISE .................................. A-1
3. FEATURES .................................................. A-1
4. RESTRICTED CONDITIONS .................................. A-1
5. SPECIFICATIONS .......................................... A-1
1. MERCHANDISE NAME AND CODE IN OLYMPUS

<table>
<thead>
<tr>
<th>Merchandise name</th>
<th>Reflected light fluorescence illuminator</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODE in OLYMPUS</td>
<td>BH2-RFCA</td>
</tr>
</tbody>
</table>

2. OUTLINE OF MERCHANDISE

(1) This is the main unit (illuminator) of the reflected light fluorescence system.

(2) For the outline of merchandise, refer to the GENERAL RULE for BH2-RFC.

3. FEATURES

Refer to the GENERAL RULE for BH2-RFC.

4. RESTRICTED CONDITIONS

Refer to the GENERAL RULE for BH2-RFC.

5. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| 1 Main unit (BH2-RFCA) dimensions | (1) Height 70mm (including trunk)  
  (2) Width 140mm  
  (3) Length 207.5mm excluding projections | |
| 2 Weight | (1) Approx. 1.5kg | |
| 3 Observation tube magnification | (1) 1.25X | Same as B2-RFA |
| 4 Number of visual fields | (1) 20 | |
| 5 Microscope inspection method | (1) Reflected light fluorescence and transmissive observation  
  (2) Reflected light fluorescence - Transmissive differential interference (at use of BH2-ANF, BH2-NAF, BH2-NCF or BH2-NC)  
  (3) Reflected light fluorescence - Phase contrast (at use of BH2-PCM, BH2-NCP or BH2-NC) | |
## A. OUTLINE OF PRODUCT

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| 6 Iris | (1) Aperture iris built in  
(2) Field iris (with a centering device) built in | $\phi 1 \sim 5$  
$\phi 2 \sim 7$ |
| 7 Analyzer dummy | (1) Square hole fitting with a click  
(2) One supplementary barrier filter demountable | AB6765 |
| 8 Cube plate | (1) Screw fixing type | AB7281 |
| 9 Ultraviolet rays protective shade | (1) Fitting/insertion type | AB6743 |
| 10 Nameplate | (1) Magnet absorption type 9 types | AB6754 - 62 |
| 11 Shutter | (1) Slide type  
(2) Aperture and ND25 | |
| 12 Main body | (1) Round dovetail (with a supplementary foot) | |
| 2 Observation tube | (1) Round dovetail (female side) | |
| 3 Lamp house | (1) Round hole fitting | * Illuminator BH2-RFCA |
| 4 Power supply unit | (1) Cable with a connector | * Lamp house BH2-LSRF 2, BH2-LS RH |
| 5 Cube slider | (1) Inserting into a dovetail with a click, with a screw stopper | * Cube slider |
| 6 Cube plate | (1) Fixing with a screw | * Cube slider |
| 7 Supplementary exciter filter | (1) Fixing with a screw | * Cube |
| 8 Supplementary barrier filter | (1) Fixing with a magnet  
(2) Falling | * Cube  
* Analyzer dummy Analyzer BH2-ANF |
<p>| 9 Analyzer dummy | (1) Inserting into a square hole with a click | *BH2-RFCA |
| 10 Analyzer slider BH2-ANF | (1) Inserting into a square hole with a click | * BH2-RFCA |</p>
<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Nomarski prism</td>
<td>(1) Inserting into a square hole and fixing with a screw</td>
<td>* BH2-RFCA</td>
</tr>
<tr>
<td>slider BH2-NAF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 Prism cap</td>
<td>(1) Inserting into a square hole and fixing with a screw</td>
<td>* BH2-RFCA</td>
</tr>
<tr>
<td>13 Ultraviolet rays</td>
<td>(1) Inserting into a square hole and fixing with a spring</td>
<td>* BH2-RFCA</td>
</tr>
<tr>
<td>protective shade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Nameplate</td>
<td>(1) Fixing by magnet</td>
<td>* BH2-RFCA</td>
</tr>
<tr>
<td>15 Cube window cover</td>
<td>(1) Fixing by magnet</td>
<td>* BH2-RFCA</td>
</tr>
<tr>
<td>16 Cube slider knob</td>
<td>(1) Fixing with a screw</td>
<td>* Cube slider</td>
</tr>
<tr>
<td>13 1 Excitation</td>
<td>(1) Slider with a click (with a stopper at both ends)</td>
<td></td>
</tr>
<tr>
<td>method</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Nomarski prism</td>
<td>(1) Slider with a stopper</td>
<td></td>
</tr>
<tr>
<td>(2) Retardation with</td>
<td>(2) Retardation with a fine adjustment screw</td>
<td></td>
</tr>
<tr>
<td>a fine adjustment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>screw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Analyzer</td>
<td>(1) Slider with a click</td>
<td></td>
</tr>
<tr>
<td>4 Shutter</td>
<td>(1) Slider with a click</td>
<td></td>
</tr>
</tbody>
</table>

Asterisk (*) in the remarks column indicates a matching part.
CONTENTS

1. DISASSEMBLY OF WHOLE UNIT ....................... B-1

2. DISASSEMBLY OF HEAT ABSORPTION TUBE ASS'Y ...... B-8

3. DISASSEMBLY OF SHUTTER ASS'Y .................... B-8

4. DISASSEMBLY OF LENS FRAME ASS'Y .................. B-9

5. DISASSEMBLY OF AS ASS'Y .......................... B-9

6. DISASSEMBLY OF FS ASS'Y .......................... B-10

7. DISASSEMBLY OF CONNECTOR .......................... B-11

8. DISASSEMBLY OF DOVETAIL ASS'Y .................... B-11

9. DISASSEMBLY OF DOVETAIL MOUNT ................... B-12
1. DISASSEMBLY OF WHOLE UNIT

1-1 Remove the A-PLATE ①.

1-2 Loose the KNOB ②, and remove the NAR dummy ③.
1-3 Remove the KNOB [1] by turning it counter-clockwise, and remove the COVER-R [2].
   * The COVER-R [2] is magnetic type.

1-4 Remove the COVER-L [3].

1-5 Remove the NAMEPLATEs [4] (9 pieces).
   * The NAMEPLATE [4] is magnetic type.
1-6 Remove the NAMEPLATE ①.
SCREW PSK2x3SA 4 pcs.

1-7 Remove the HEAT ABSORPTION TUBE ASS'Y ②.
SCREW CSK3x8SA 4 pcs.

1-8 Remove the SHUTTER ASS'Y ③ and the CLICK-SPRING ④.
1-9 Remove the ARM ①.
SCREW CUK3x1OSA 4 pcs.

1-10 Remove the KNURLED RING ②.

1-11 Remove the AS-ASS'Y ③.
SCREW CSK2.6x8SA 3 pcs.
1-12 Remove the FS ASS'Y ①.
SCREW CSK2.6x10SA 3 pcs.

1-13 Remove the CONNECTOR②.
SCREW 3x8SA 4 pcs.

1-14 Remove the LENS ASS'Y③.
Remove also the following parts at the same time.
- WASHER ④
- LENS ASS'Y ⑤
- DIAPHRAGM ⑥
* The washer will be used for parfocality adjustment in assembling, and must not be lost.
1-15 Pull the SHAFT ①, and remove the DOVETAIL ASS'Y ②.
* Loose the STOPPER SCREW ③.

1-16 Remove the DOVETAIL ASS'Y ④.
SCREW AB3x4SA 4 pcs.

1-17 Remove the KNOB ⑤.
1-18 Remove the UPPER PLATE (1). Remove also the DOVETAIL PLATE (2).
SCREW 3x8SA 4 pcs.
* The DOVETAIL PLATE (2) will be used for parfocality adjustment in assembling, and must not be lost.

1-19 Remove the LOWER PLATE (3).
SCREW 3x8SA 4 pcs.

1-20 Remove the A-SPRING (4).
SCREW 3PHK2x2SA 2 pcs.
1-21 Remove the U-SPRING ①.
SCREW 3PUK2x4SA 2 pcs.

2. DISASSEMBLY OF HEAT ABSORPTION TUBE ASS’Y

2-1 Remove the RING ④ by turning it counter-clockwise, and remove the FILTER ③.
2-2 Remove the RING ② by turning it counter-clockwise, and remove the LENS ⑤.

3. DISASSEMBLY OF SHUTTER ASS’Y

3-1 Remove the RING ⑥ by turning it counter-clockwise, and remove the FILTER ⑦.
3-2 Remove two KNOBS ⑧.
4. DISASSEMBLY OF LENS FRAME ASS'Y

4-1 Remove the LEVER①.

4-2 Remove the AS-ASS'Y②.
SCREW ③ ANU2x3SA 3 pcs.

4-3 Remove the RING ④ by turning it counter-clockwise, and remove the LENS ⑤.

5. DISASSEMBLY OF AS ASS'Y

5-1 Remove the INNER-FRAME ⑥, and take off four DIAPHRAGM-BLADES-⑦.
6. DISASSEMBLY OF FS ASS'Y

6-1 Remove the FIXING-SPRING ①.
6-2 Remove the LEVER-1 ②.
6-3 Remove two KNOBS ③.
6-4 Remove SPRING HOUSING ④.
   Remove also the following parts at the same time.
   - SPRING ⑤
   - SPINDLE ⑥

6-5 Remove the RING ⑦ by turning it counter-clockwise, and remove the FS-ASS'Y ⑧.

6-6 Remove the INNER-FRAME ⑨, and take off eight DIAPHRAGM-BLADES-A ⑩.
7. DISASSEMBLY OF CONNECTOR

7-1 Remove the RING 1 by turning it counter-clockwise, and remove the LENS 2.

8. DISASSEMBLY OF DOVETAIL ASS'Y

8-1 Remove the SHAFT 3.
8-2 Remove three R-KNOBS 4.
8-3 Remove two COVERs 5.

SCREW PSM2x3 4 pcs.

8-4 Remove three SCREWS 6. The following parts come off at the same time.
- Three SPRINGS 7
- Three BALLS 8
9. DISASSEMBLY OF DOVETAIL MOUNT

9-1 Remove the SCREW ①. Remove also the following parts at the same time.
   - SPRING ②
   - BALL ③

9-2 Remove the DOVETAIL ④.

SCREW CUK2.6x8 SA 3 pcs.
C. ASSEMBLY AND ADJUSTMENT

CONTENTS

1. ASSEMBLY OF DOVETAIL MOUNT .................. C-1
2. ASSEMBLY AND ADJUSTMENT OF DOVETAIL ASS'Y .... C-1
3. ASSEMBLY OF CONNECTOR ......................... C-2
4. ASSEMBLY AND ADJUSTMENT OF FS ASS'Y .......... C-2
5. ASSEMBLY AND ADJUSTMENT OF AS ASS'Y .......... C-4
6. ASSEMBLY OF LENS FRAME ASS'Y ................. C-5
7. ASSEMBLY OF SHUTTER ASS'Y .................... C-5
8. ASSEMBLY OF HEAT ABSORPTION TUBE ASS'Y ....... C-6
9. ASSEMBLY AND ADJUSTMENT OF WHOLE UNIT ........ C-6
1. ASSEMBLY OF DOVETAIL MOUNT

1-1 Attach the DOVETAIL.

SCREW CUK2.6x8SA 3 pcs.

1-2 Insert the BALL ② and SPRING ③, and tighten the SCREW ④.

* Apply grease to the BALL ② and SPRING ③.

GREASE LOS72515 (OT2008)

2. ASSEMBLY OF DOVETAIL ASS'Y

2-1 Insert the BALL ⑦ (3 pcs.) and SPRING ⑥ (3 pcs.), and tighten the SCREW ⑤ (3 pcs.).

* Apply GREASE to the BALL ⑦ (3 pcs.) and SPRING ⑥ (3 pcs.).

GREASE LOS72515 (OT2008)

2-2 Adjust the click force.

(1) Set the supplied CUBE ⑧ (B2-BF, etc.).

(2) Measure the click force by using a tension gauge (1kg).

| Standard | 500g ± 100g |

(3) If a click force does not meet the standard, adjust by changing the inserting depth of the SCREW ⑤ (3 pcs.).

(4) Apply adhesive to the screw head.

Adhesive SHELLAC (OT1131)
Tool Tension gauge (OT1145)
2-3 Attach the COVER (2 pcs.).
   SCREW PSK2x3SA 4 pcs.
   * Apply an adhesive to the SCREWS.
   Adhesive PERMA LOK (OT1126)

2-4 Attach the KNOB (3 pcs.).
   * Apply small amount of grease to the thread.
   GREASE LOS72515 (OT2008)

2-5 Attach the SHAFT.
   * Apply adhesive to the thread.
   Adhesive Araldite rapid (OT1315)

3. ASSEMBLY OF CONNECTOR

3-1 Insert the LENS, and turn the RING clockwise.
   * Pay attention to the lens direction. (See the drawing.)
   * Apply adhesive to the RING.
   Adhesive SHELLAC (OT1131)

4. ASSEMBLY AND ADJUSTMENT OF FS ASS'Y

4-1 Set the OUTER-FRAME and DIAPHRAGM BLADE-A (8 pcs.), and attach the INNER-FRAME.
   * Pay attention to the front/back side of the DIAPHRAGM-BLADE-A. (See the drawing on the left.)
   * Apply a thin coat of grease all around the INNER FRAME.
   GREASE CO23P (OT2116)
4-2 Check the function of the DIAPHRAGM BLADE-A ③.

(1) Verify that the iris diameter is smoothly varied from minimum to maximum.

(2) Verify that the following standard is met when the iris diameter is minimum.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Drill of 1.3mm ø passes, but not 1.4mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The ratio of longest side to shortest side is 2:1 or less.</td>
</tr>
</tbody>
</table>

4-3 Insert the FS-ASS'Y into the INNER-TUBE ⑦, and attach the RING ①.

* Apply grease to both endfaces and all around the FS-ASS'Y. ⑧
* The fine side of the RING ① should come to the iris side.

GREASE LOS72515 (OT2008)
Adhesive SHELLAC (OT1131)

4-4 Set the SPRING ⑩ and SPINDLE ⑨ in the SPRING-HOUSING ⑪, and secure it to the INNER-TUBE ⑦.

* Apply grease to the ends of the SPRING ⑩ and SPINDLE ⑨.
* Apply adhesive to the thread of the SPRING HOUSING ⑪.

GREASE LOS72515 (OT2008)
Adhesive SHELLAC (OT1131)

4-5 Attach two KNOBS ⑧.

* Apply small amount of grease to the KNOB thread.

GREASE LOS72515 (OT2008)

4-6 Attach the LEVER ⑤.

* Apply adhesive to the lever thread.

Adhesive SHELLAC (OT1131)

4-7 Attach the FIXING SPRING ⑥.
4-8 Adjust FS centering, and check the open/close function.

1. Move the two KNOBS ②, and verify that FS moves vertically and horizontally. Set it almost at the center.

2. Move the LEVER ①, and verify that DIAPHRAGM BLADE opens and closes smoothly.

5. ASSEMBLY AND ADJUSTMENT OF AS ASS'Y

5-1 Set the DIAPHRAGM-BLADE-A ③ (4 pcs.) in the OUTER-FRAME ②, and attach the INNER-FRAME ①.

* Apply small amount of grease to the INNER-FRAME ①.

GREASE GO23P (OT2116)

5-2 Check the open/close function.

1. Verify that the iris diameter is smoothly varied from minimum to maximum.

2. Verify that the following standard is met when the iris diameter is minimum.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Drill of 1mm ( \Phi ) passes, but not 1.1mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The ratio of longest side to shortest side is 3:1 or less.</td>
</tr>
</tbody>
</table>
6. ASSEMBLY OF LENS FRAME ASS'Y

6-1 Insert the LENS, and turn the RING clockwise. (Use a PIN FACE WRENCH.)

* The radius of curvature of the lens is the same on both sides.
  (no directivity)

* Apply adhesive to the RING (at one point).

Adhesive SHELLAC (OT1131)

6-2 Apply adhesive to the AS ASS'Y, and fasten it tentatively with three SCREWS.

SCREW ANU2x3SA

6-3 Attach the LEVER.

* Apply adhesive to the thread.

6-4 Check the AS for opening and closing.
Move the lever, and verify that the spring opens and closes smoothly.

7.  ASSEMBLY OF SHUTTER ASS'Y

7-1 Attach two KNOBS.

* Apply adhesive to the thread.

Adhesive Araldite rapid (OT1131)

7-2 Insert the FILTER, and turn the RING clockwise.

* Apply adhesive to the RING.

Adhesive SHELLAC (OT1131)
8. ASSEMBLY OF HEAT ABSORPTION TUBE ASS'Y

8-1 Insert the LENS ④, and turn the RING ③ clockwise.
   * Pay attention to the LENS ④ direction. (See the drawing.)

8-2 Insert the FILTER ②, and turn the RING ① clockwise.

8-3 Apply adhesive to the RINGs ① and ③.
   Adhesive SHELLAC (OT1131)

9. ASSEMBLY AND ADJUSTMENT OF WHOLE UNIT

9-1 Attach the U-SPRING ⑥.
   SCREW 3PUK2x4SA 2 pcs.
   * Apply adhesive to the screws.
   Adhesive PERMA LOK (OT1126)

9-2 Attach the A-SPRING ⑦.
   SCREW 3PUK2x2SA 2 pcs.
9-3 Adjust the A-SPRING(7) click force. (See the preceding page.)

(1) Measure the click force when pressing by using BH2-ANF or ANF DUMMY, and verify that the following standard is met. (Use a lkg tension gauge.)

| Standard | 500g ± 100g |

(2) If the standard is not met, adjust by changing the A-SPRING position.

* After adjustment, apply adhesive to the screw.

Adhesive SHELLAC (OT1131)
Tool Tension gauge (OT1145)

9-4 Attach the LOWER PLATE(1).
SCREW AB3x8SA 4 pcs.

* Apply adhesive to the screws.

Adhesive PERMA LOK (OT1126)

9-5 Set the DOVETAIL-PLATE(2) used at disassembling, and attach the upper plate.
SCREW AB3x8SA 4 pcs.

9-6 Attach the KNOB(3).

* Apply grease to the thread.

GREASE LOS72515 (OT2008)
9-7 Set BH2-NAF or NAF DUMMY ①, and verify that it can be inserted up to the stopper position and securely fixed.

9-8 Verify that the UV-PROTECTIVE-SHADE ② can be securely mounted and demounted.

9-9 Attach the DOVETAIL ASS'Y ③.

SCREW AB3x4SA 4 pcs.
9-10 Insert the DOVETAIL-MOUNT ①, measure and adjust the click force and verify that the following standard is met. (Use a 1kg tension gauge.)

- Tension gauge (1kg) OT1145

| Standard | 700g ± 100g |

* If the standard is not met, adjust by changing the tightening force of the screw which fixes the DOVETAIL ASS'Y ③.
* After adjustment, apply adhesive to the screw head.

Adhesive
SHELLAC (OT1131)

9-11 Adjust the dovetail's right angle.

(1) Set the jig as illustrated on the left.

- COLLIMATOR ③ KNU047
- ADJUSTING MIRROR ⑥ RFCAKCO01
- ADAPTER FOR COLLIMATOR ④ RFCAKCO02
- STANDARD CUBE ⑤

(2) Verify that the dovetail's right angle meets the following standard at the middle cube position.

| standard | within half of collimator scale |

(3) If the standard is not met, adjust the tightening depth of the SCREW ⑧ (4 pcs.) and SCREW ⑩(4pcs).

(4) Check for deviation from the center at each cube position (3 positions), and verify that the following standard is met.

| standard | within 1.5 of collimator scale |

(5) Move the cube switching knob and verify that the dovetail does not rattle at each cube position.
9-12 Insert the DIAPHRAGM①, LENS-ASS'Y ② and WASHER ③, and attach the LENS ASS'Y ④.

* Use the same WASHER ③ which has been disassembled.

9-13 Adjust the parfocality.

(1) Set the following jigs in BHS as follows:
   - STANDARD TUBE ⑥; KN0003
   - STANDARD OC ⑤ (for LB); KN0031
   - STANDARD OB ⑧ (for LB); KN0016
   - STANDARD CUBE ⑦ RFCAK004

(2) Check the parfocality, and verify that the following standard is met.

   Standard Within ±3 scale of STANDARD OC ⑤

(3) If the standard is not met, adjust by selecting an appropriate washer.
   (Refer to the list of washers given on the left.)

(4) Apply adhesive to the LENS-FRAME ②.
   Adhesive SHELLAC (OT1131)

### List of washers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB7012</td>
<td>0.5</td>
</tr>
<tr>
<td>AB7013</td>
<td>0.6</td>
</tr>
<tr>
<td>AB7014</td>
<td>0.8</td>
</tr>
<tr>
<td>AB7015</td>
<td>1.0</td>
</tr>
<tr>
<td>AB7016</td>
<td>1.2</td>
</tr>
<tr>
<td>AB7017</td>
<td>1.4</td>
</tr>
<tr>
<td>AB7018</td>
<td>1.6</td>
</tr>
<tr>
<td>AB7019</td>
<td>1.8</td>
</tr>
<tr>
<td>AB7020</td>
<td>2.0</td>
</tr>
<tr>
<td>AB7091</td>
<td>2.2</td>
</tr>
<tr>
<td>AB7092</td>
<td>2.4</td>
</tr>
</tbody>
</table>
9-14 Adjust the optical axis.

(1) Set the following jigs in BHS as follows:
   - STANDARD TUBE ②: B-KN0003
   - STANDARD OC ① (for LB): KN0030
   - STANDARD OB ④ (for LB): KN0015
   - STANDARD CUBE ③: RFCAKC004

(2) Check the optical axis, and verify that the following standard is met.

| Standard | The center of the STANDARD OB ④ should be within one scale of STANDARD OC ①. |

(3) If the standard is not met, adjust by changing the UPPER-PLATE ⑤ position.

   SCREW AB3x8SA 4 pcs.

(4) Apply adhesive to the screw after adjustment.

   Adhesive SHELLAC (OT1131)

9-15 Attach the CONNECTOR ASS'Y.

   SCREW AB3x8SA 4 pcs.

* Pay attention to the attaching position. (See the drawing below.)
9-16 Adjust the optical axis.

1. Set the following jigs in BHS as follows:
   - Objective 10X
   - MIRROR (Parallel) (Equal grade LP1576)
   - STANDARD CUBE : RFCAKC004
   - POSITIONING JIG FOR AB6736 : RFCAKC003
   - STANDARD REVOLVING NOSEPIECE : B-KNO002
   - STANDARD TUBE : B-KNO003
   - STANDARD OC (For LB) : NO030

2. Check the optical axis at each cube position (3 positions), and verify that the following standard is met.

<table>
<thead>
<tr>
<th>Standard</th>
<th>The center of POSITIONING JIG FOR AB6736 should be within one scale of STANDARD OC.</th>
</tr>
</thead>
</table>

3. If the standard is not met, adjust by changing the CONNECTOR ASS'Y position.

   SCREW AB3x8SA 4 pcs.

4. Apply adhesive to the four screws after adjustment.

   Adhesive SHELLAC (OT1131)

9-17 Attach the FS ASS'Y.

   SCREW CSK2.6x10SA 3 pcs.

* Apply adhesive to the screws.

   Adhesive PERMA LOK (OT1126)
BH2-RFCA

C. ASSEMBLY AND ADJUSTMENT

9-18 Attach the AS ASS'Y ①.

SCREW CSK2.6x0.8A 3 pcs.

* Apply adhesive (PERMA LOK MM) to the screws.

Adhesive PERMA LOK MM (OT1126)

9-19 Adjust the AS iris center.

(1) Set the following jigs in BHS as follows:
- STANDARD TUBE ② : B-KNO0003
- CENTERING TELESCOPE ① : KNO029
- MIRROR ③ (Parallel)(Equal grade OBJECTIVE 10X ④
- STANDARD CUBE ⑤ : RFCAK004

(2) Adjust the three screws so that the AS center comes to the center of the visual field.
* After the adjustment, apply adhesive to the screws.
* Set the FS iris to the center in the same manner.

SCREW ANU2x3SA 3 pcs.
Adhesive SHELLAC (OT1131)
9-20  Attach the KNURLED-RING ①.

* Apply a thin coat of grease to the inside.

GREASE LOS72515 (OT2008)

9-21  Attach the ARM ②.

SCREW CUK3×10SA 4 pcs.

9-22  Set the CLICK-SPRING ③, and attach the SHUTTER-ASS'Y ④.

* Apply small amount of grease to the click groove of the CLICK-SPRING ③.

GREASE LOS72515 (OT2008)
9-23 Attach the HEAT-ABSORPTION-TUBE-ASS'Y 1.
SCREW CSK3x8SA 4 pcs.

9-24 Attach the NAMEPLATE 2.
SCREW PSK2x3SA 4 pcs.

9-25 Attach the NAMEPLATE 4 (9 pcs.) as illustrated on the left.
* The NAMEPLATE is magnetic type.

<table>
<thead>
<tr>
<th>No.</th>
<th>Nameplate</th>
<th>No.</th>
<th>Nameplate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BV</td>
<td>6</td>
<td>No print</td>
</tr>
<tr>
<td>2</td>
<td>BF</td>
<td>7</td>
<td>G</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>8</td>
<td>IB</td>
</tr>
<tr>
<td>4</td>
<td>U</td>
<td>9</td>
<td>IG</td>
</tr>
<tr>
<td>5</td>
<td>V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C-15
9-26 Attach the COVER-L ①.

* The COVER-L ① is magnetic type.

9-27 Set the COVER-R ② and turn the KNOB ③ clockwise.

* The COVER-R ② is magnetic type.

9-28 Insert the NAF-DUMMY ⑥ and fasten it with the KNOB ⑤.

9-29 Insert the ANF-DUMMY ④.
CONTENTS

1. JIGS AND TOOLS .................................. D-1

2. ADHESIVES AND GREASE ............................. D-1
### 1. Jigs and Tools

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-KN0002</td>
<td>Standard nosepiece</td>
</tr>
<tr>
<td>B-KN0003</td>
<td>Standard jig for mechanical tube length control</td>
</tr>
<tr>
<td>KNO015</td>
<td>Centering objective for optical alignment (for long barrel)</td>
</tr>
<tr>
<td>KNO016</td>
<td>Standard objective for optical length adjustment (for long barrel)</td>
</tr>
<tr>
<td>KNO029</td>
<td>Special centering telescope (d = 23.2mm)</td>
</tr>
<tr>
<td>KNO030</td>
<td>Special eyepiece with cross hairs (long barrel)</td>
</tr>
<tr>
<td>KNO031</td>
<td>Special eyepiece for optical tube length adjustment (for long barrel)</td>
</tr>
<tr>
<td>KNO047</td>
<td>Collimator</td>
</tr>
<tr>
<td>OT1145</td>
<td>Tension gauge (1kg)</td>
</tr>
<tr>
<td>RPCAKC001</td>
<td>Adjusting mirror for squareness</td>
</tr>
<tr>
<td>RPCAKC002</td>
<td>Adaptor for collimator</td>
</tr>
<tr>
<td>RPCAKC003</td>
<td>Positioning jig for AB6736</td>
</tr>
<tr>
<td>RPCAKC004</td>
<td>Standard cube</td>
</tr>
</tbody>
</table>

### 2. Adhesives and Grease

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT1126</td>
<td>Adhesive FEKMA LJK MM</td>
</tr>
<tr>
<td>OT1131</td>
<td>Adhesive SHELLAC</td>
</tr>
<tr>
<td>OT1315</td>
<td>Adhesive ARALDITE RAPID</td>
</tr>
<tr>
<td>OT2008</td>
<td>Grease LoS72515</td>
</tr>
<tr>
<td>OT2116</td>
<td>Grease G023P</td>
</tr>
</tbody>
</table>