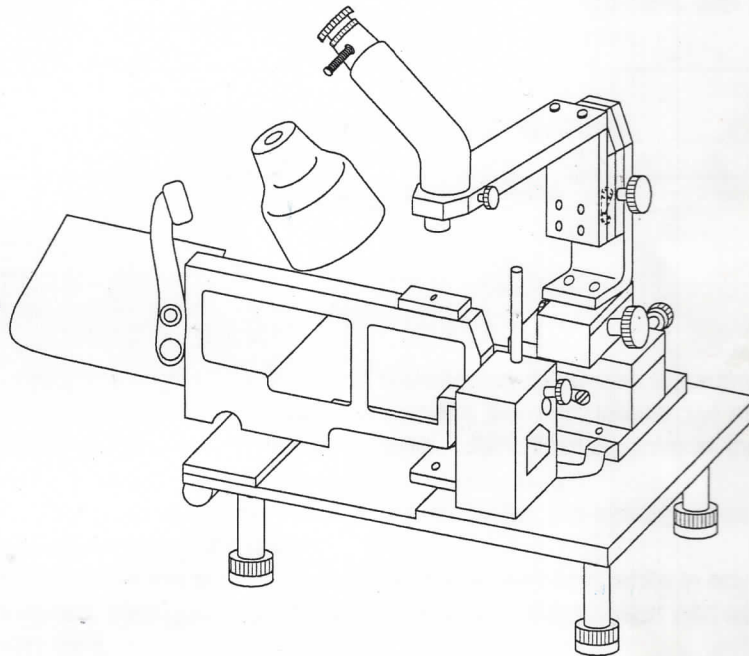


JIG FOR CHECKING A FEEDER

INSTRUCTION MANUAL



Thank you very much for purchasing a product of our company.

**CAUTION**

In order to ensure safe use of the Jig for checking a feeder, be sure to read this Manual before using the machine.
After reading this Manual, keep it at a fixed location so that it will be available at any time.

Important

- (1) This manual may not be copied or reproduced (duplicated), in whole or part, without the express prior written consent of JUKI Corp.
- (2) This manual is subject to change without notice.
- (3) This manual is written as carefully as possible. However, if you have a question, or find a mistake or missing information, contact our dealers or JUKI Corp.
- (4) JUKI Corp. is not responsible for any defects or malfunction due to your abnormal operation.



Warning

For the safe operation of machinery!!

All personnel engaged in the operation of the placer and its accessories ("Machines") including the operators, service and maintenance personnel are required to read through this safety warning to make familiar with its handling to prevent accidents and injuries.

This "Warning: For the safe operation of machinery" instructions contain aspects that are not included in the instruction sheet attached to the product.

The following symbols are used throughout this instructions and on the product for the better understanding of various warning labels. Please make yourself familiar with the contents and act accordingly.

Each warning mark is indicated as shown below.

Warning marks			
	High voltage!! Beware of electric shocks.		Beware of hot parts. Contacts with them may cause a burn.

Matters of Caution Regarding Safety



CAUTION

Maintenance

1. In order to prevent an accident due to lack of experience, repair and adjustment work should be conducted by maintenance engineers who have a thorough knowledge of the equipment.
For replacement of parts, use JUKI genuine parts. JUKI shall disclaim all the responsibility for any accident due to use of non-genuine parts.
2. The jig base and the component parts of the master feeder are already adjusted in respect of positions before delivery from the factory.
Accordingly, don't loosen the screws whose heads are painted in white in any case. If these screws are loosened, their quality as inspection jig will be deteriorated and we shall not assume the responsibility for it.

Operating Environment

1. Use the pick position inspection jig in the following environment.
For using and unpacking the product:
Ambient temperature: +10 to +35°C
Humidity: 50%RH or less (35°C) and 90%RH or less (20°C) without condensation
For transporting and storing the product before unpacking:
Temperature: -25 to +70°C
Humidity: 20 to 90% RH without condensation. However, using the product in a place exposed to large changes of temperature and humidity is prohibited.
Ambient environment: Free from any corrosive gas.



CAUTION

Precautions in each step of use

Transportation

1. When moving this equipment, take a proper safety measure so as not to cause a turnover or drop.

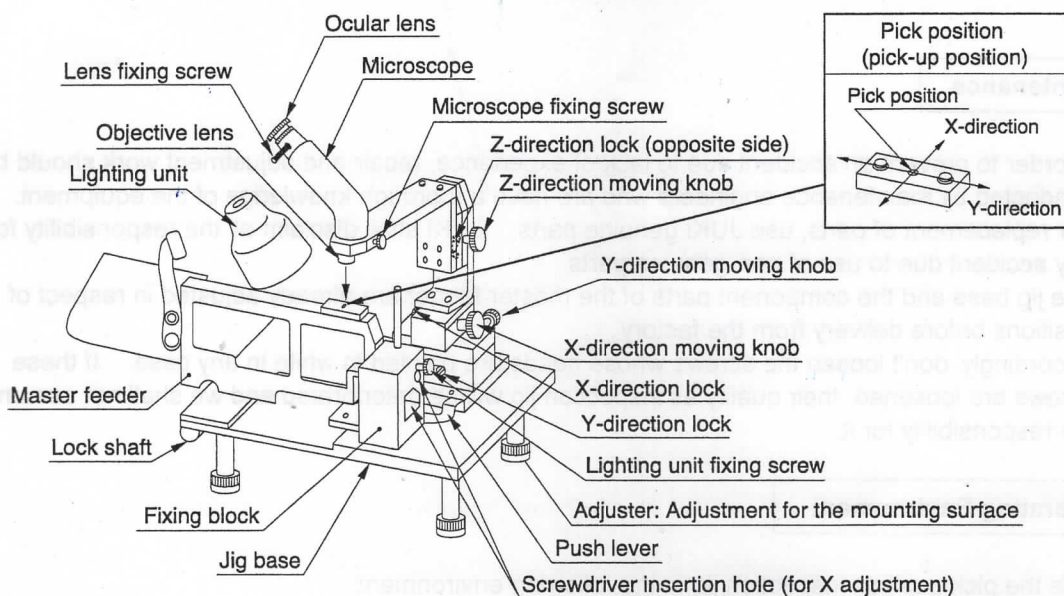
Unpacking

1. Perform unpacking starting from the upper part in a proper order.
2. Optical unit, lighting unit, and jigs and tools are packaged as units in divided form. Take out each package carefully.

Assembly of Equipment

1. Perform assembly in accordance with the contents shown in the following figure. Tighten screws in each part securely so that they may not be loose.

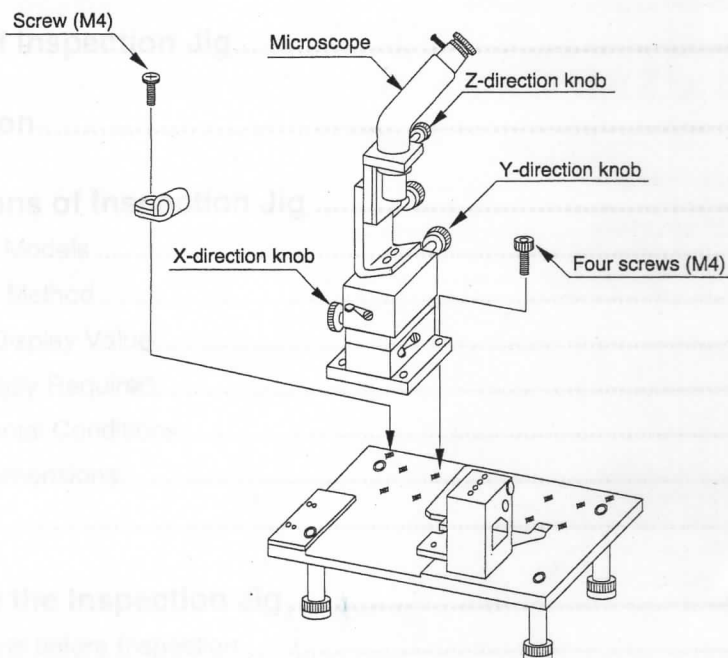
Standard Specifications





CAUTION

2. The standard position of the microscope is as shown on the previous page. In the case of a tape feeder with a carrier tape width of 8 mm, 12 mm, 16 mm or 24 mm, the microscope can also be installed at the position shown in the following figure.



[Note]

When the microscope position shown in the above figure is used, a tape feeder with a carrier tape width of 32 mm, 44 mm, 56 mm or 72 mm (special order) does not permit making a Y-direction adjustment (P.10) of the pick position.

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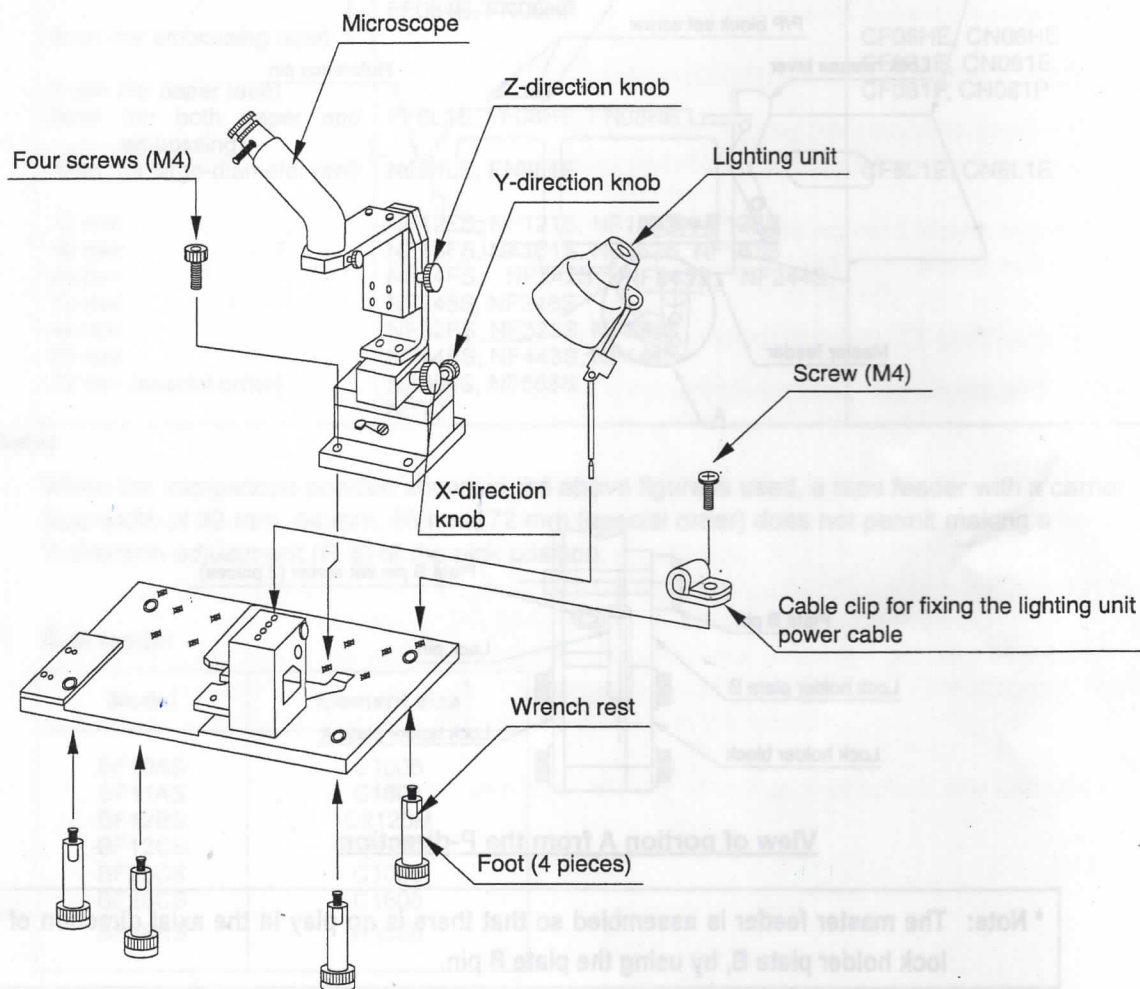
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1. Overview of Inspection Jig

This inspection jig is designed to adjust the pick position (pickup position) of the tape feeder or bulk feeder.

2. Configuration

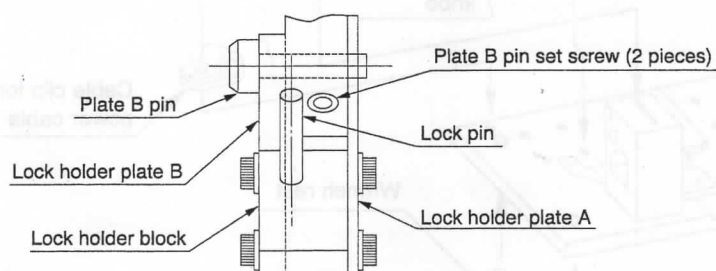
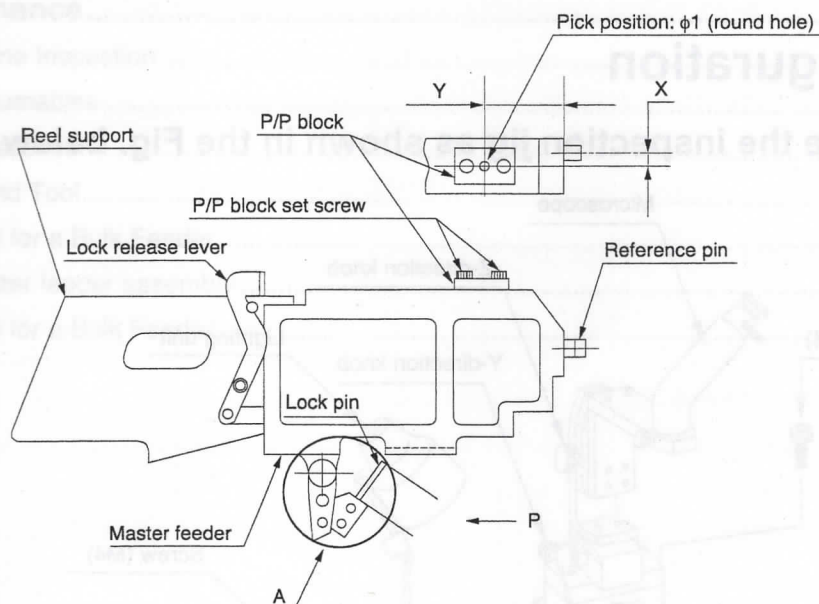
2-1. Assemble the inspection jig as shown in the Fig. below.



* Note: This inspection jig is a precision instrument. When handling this inspection jig, take appropriate safety measures so that no impact is applied to it.

2-2. Configuration of Master Feeder

(Master feeder assembly is not Standard accessory)



View of portion A from the P-direction

* Note: The master feeder is assembled so that there is no play in the axial direction of the lock holder plate B, by using the plate B pin.

3. Specifications of Inspection Jig

3-1. Applicable Models

(1) Tape feeder

Carrier tape width	Applicable models for FTF, NTF (model names)	Applicable models for CTF (model names)
For 0603 (for paper tape) For 1005 (for paper tape)	FF03HP NF05HP, FF05HP NF081E, NF08HE, NF081P, FF08HE, FF081E, FN05HP	CF03HP CF05HP, CN05HP
8mm (for embossing tape)		CF08HE, CN08HE CF081E, CN081E, CF081P, CN081P
8 mm (for paper tape) 8mm (for both paper and embossing)	FF8L1E, FF08HE, FN08HE	
8mm (for large-diameter reel)	NF81LE, FN8L1E	CF8L1E, CN8L1E
12 mm	NF12FS, NF121S, NF122S, NF123S	
16 mm	NF16FS, NF161S, NF162S, NF163S	
24 mm	NF24FS, NF242S, NF243S, NF244S, NF245S, NF246S	
32 mm	NF32FS, NF323S, NF324S	
44 mm	NF44FS, NF443S, NF444S	
56 mm	NF564S, NF568S	
72 mm (special order)	NF72	

[Note]

When the microscope position shown in the above figure is used, a tape feeder with a carrier tape width of 32 mm, 44 mm, 56 mm, 72 mm (special order) does not permit making a Y-direction adjustment (P. 8) of the pick position.

(2) Bulk feeder

Model	Element size
BF10AS	C1005
BF11AS	C1608
BF12BS	C2125M
BF12CS	C2125S
BF25CS	C1005
BF28CS	C1608
BF28RS	R1608

3-2. Measuring Method

Adjust the cross cursor (two directions of X and Y) in the microscope so that the center of the cross cursor may coincide with the center of the pick position (round hole) of the master feeder.

Using this cross feeder as the reference point, measure the pick position of the tape feeder or bulk feeder.

3-3. Minimum Display Value

Each scale division of the cross cursor in the microscope corresponds to 0.05 mm. For measurement and adjustment within one scale division of the bulk feeder, eye reading is performed.

3-4. Power Supply Required

The power voltage required and lamp type of the lighting unit are different as shown in the following figure depending on each destination.

Voltage in destination	Applicable region	Lamp	Power cable
100V to 120V	Japan U.S.A., Canada, etc.	120V 15W	Power cable with plug
200V to 240V	Europe except U.K. Asia, etc.	240V 15W	European type with 2 pins. If any other type is required, use a switching adapter.

3-5. Environmental Conditions

- (1) Operating ambient temperature: +10°C to +35°C
Operating ambient humidity: 50%RH or less (at 35°C) and 90%RH or less (at 20°C)
- (2) Storage ambient temperature: -25°C to +70°C
Storage ambient humidity: 20% to 95%RH (without condensation)

3-6. External Dimensions

290 mm(W) × 200 mm(D) × 480 mm(H)

3-7. Mass

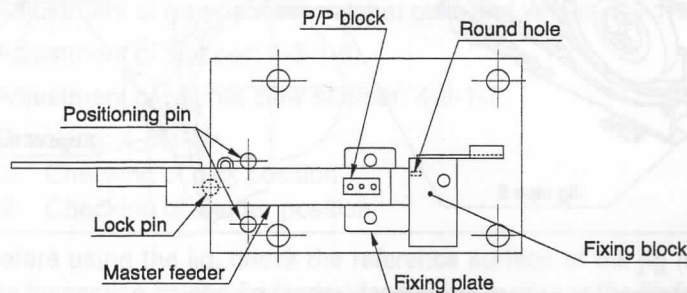
12 kg

4. How to Use the Inspection Jig

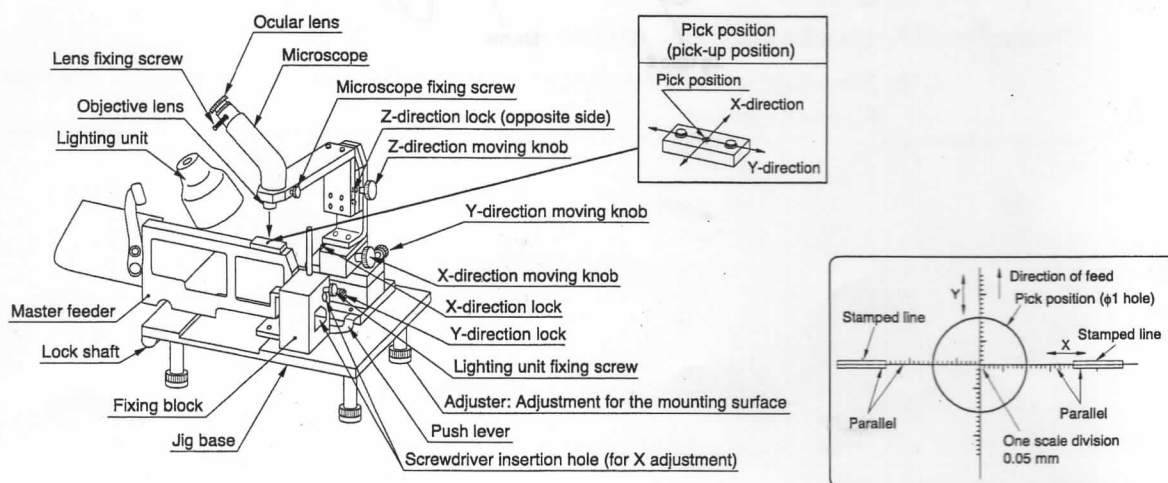
4-1. Preparations before Inspection

- (1) Setting the master feeder in the jig
Insert the reference pin of the master feeder in the round hole of the fixing block and set the lock pin of the master feeder in the V-groove of the lock shaft.

When viewing from right above, the master feeder and the positioning pin are located as shown in the figure.

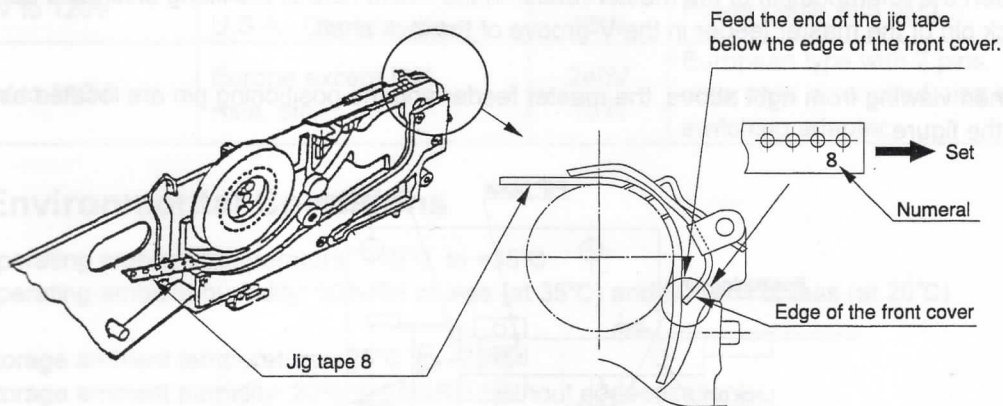


- (2) After perform positioning for the microscope, fix the microscope securely with microscope fixing screw.
- (3) Make an adjustment with the X-/Y-/Z-direction moving knob so that the center of the cross cursor may coincide with the center of pick position, $\Phi 1$ hole, of the master feeder. If the scale vision is out of focus, turn the ocular lens for this adjustment. Concurrently with the above center adjustment for the cross cursor, make an adjustment in the X-axis direction of pick position on the basis of the stamped line of the P/P block. First, loosen the lens fixing screw, then tighten the lens fixing screw at a position where the X-axis of the cross cursor is parallel to the stamped line of the P/P block. The stamped line is only a reference line and does not need to coincide with the cursor.
- (4) After making the above adjustment, lock each of the X-direction, Y-direction, and Z-direction securely.



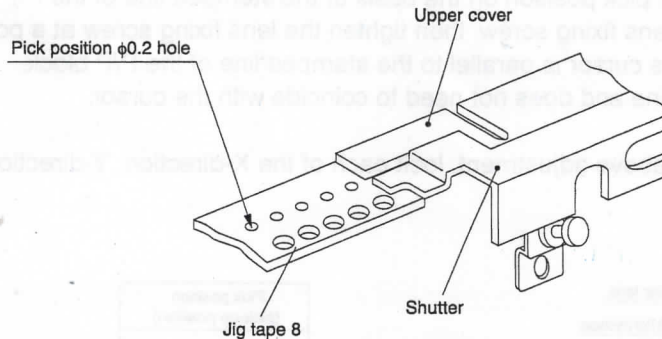
4-2. Method of Inspecting the Tape Feeder

- (1) Set jig tape 8 in the tape feeder as shown in the following figure. Be sure to set the jig tape starting from the numeral side existing in the following figure.



[Note] Set the jig tape starting from the numeral side.
Don't set it starting from the opposite side.

- (2) Set the tape feeder in the jig securely.
- (3) Feed the jig tape several times, then measure the deviation between the cross cursor in the microscope and jig tape 8.



4-3. Deviation Adjusting Method for Tape Feeder Pick Position

4-3-1. 8 mm (CTF), 8 mm - 24 mm (FTF) tape feeder

Carry out the following adjustments when necessary.

To adjust multiple parts, follow the adjustment numbers to carry out the adjustments in order.

- (1) Adjustment of X direction pick position: 4-3-1-2.
- (2) Adjustment of X direction reference pin B: 4-3-1-3.
- (3) Adjustment of Y direction pick position: 4-3-1-4.
- (4) Adjustment of gap between ratchet claw and wheel: 4-3-1-5.
- (5) Adjustment of stopper: 4-3-1-6.
- (6) Adjustment of ratchet claw stopper: 4-3-1-7.
- (7) Checking: 4-3-1-8.
 - ① Checking of pick position
 - ② Checking of shutter position

***Note:** Before using the jig, check the reference surface of the jig (contacting part between the inspection jig and jig feeder) for foreign matter or the jig for damage.

4-3-1-1. Adjustment of X direction pick position (FTF), (CTF)

- ① Check and adjust the pick position of the jig main body using the master feeder.
- ② Set the jig tape on the master feeder.

***Note:** Measure the jig tape knocked approximately 100 mm from the top hole.

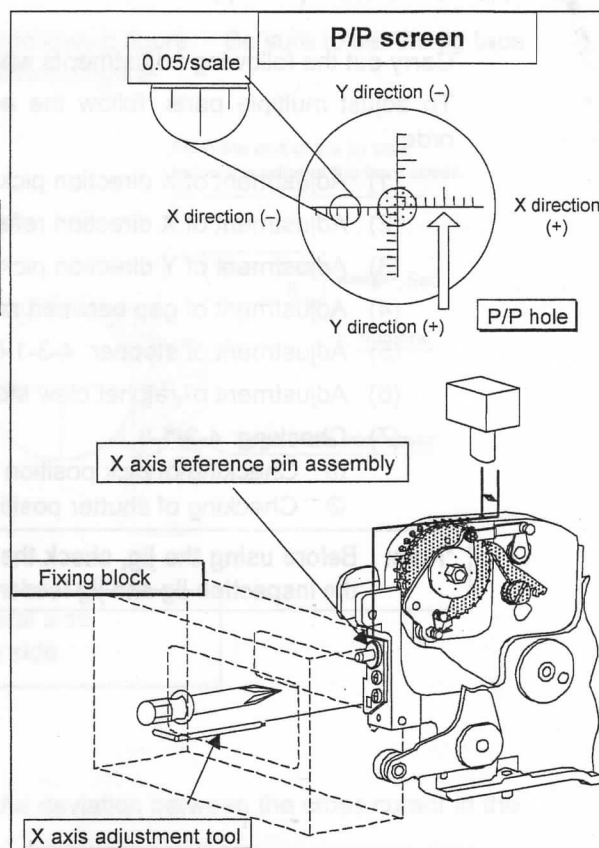
- ③ Set the tape feeder on the jig main body.
- ④ Tighten the X axis reference pin assembly lock screw temporarily (slight resistance is obtained) and set the X axis adjustment tool.
- ⑤ Turn the X axis adjustment tool to adjust the X axis reference pin assembly position so that the pick position hole in the jig tape is matched with the center of the cross cursor in the microscope. (Note)

- ⑥ Mount and remove the tape feeder about twice to check that the pick position is not changed. After that, secure the X axis reference pin assembly lock screw.
- ⑦ Move the knock lever several times to check that the pick position does not deviate.

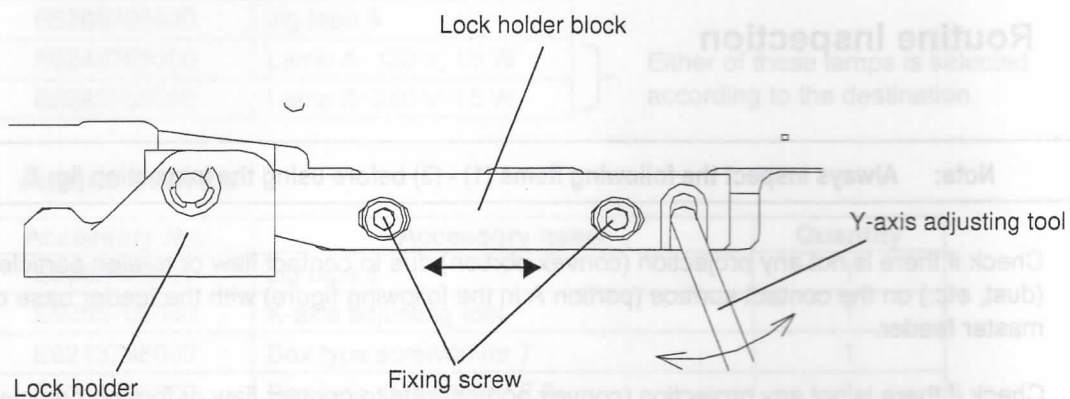
***Note:** The jig tape is consumable. If the jig tape is damaged or deformed or if it is used about 300 times, replace it with a new one.

***Note:** For CTF, use a master feeder designed specifically for CTF.

CTF: For adjusting the X reference pin (assembly), adjustment is made with the Flatblade driver.

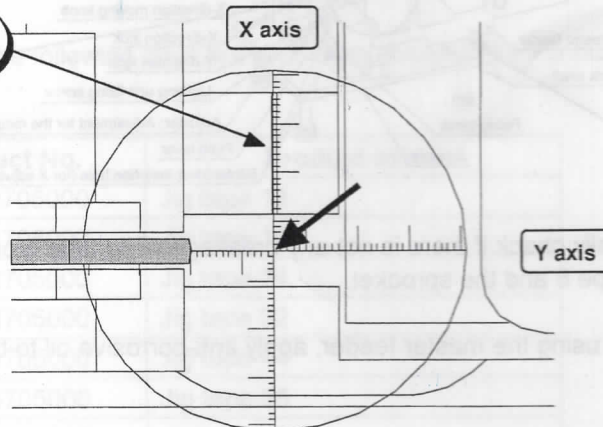


4-6-2. Y-direction adjustment



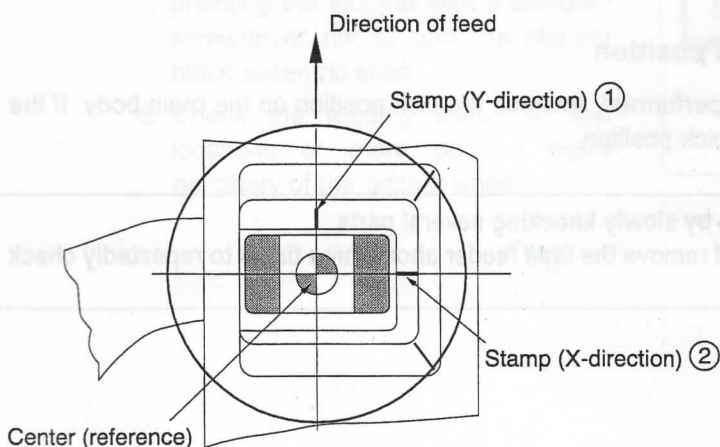
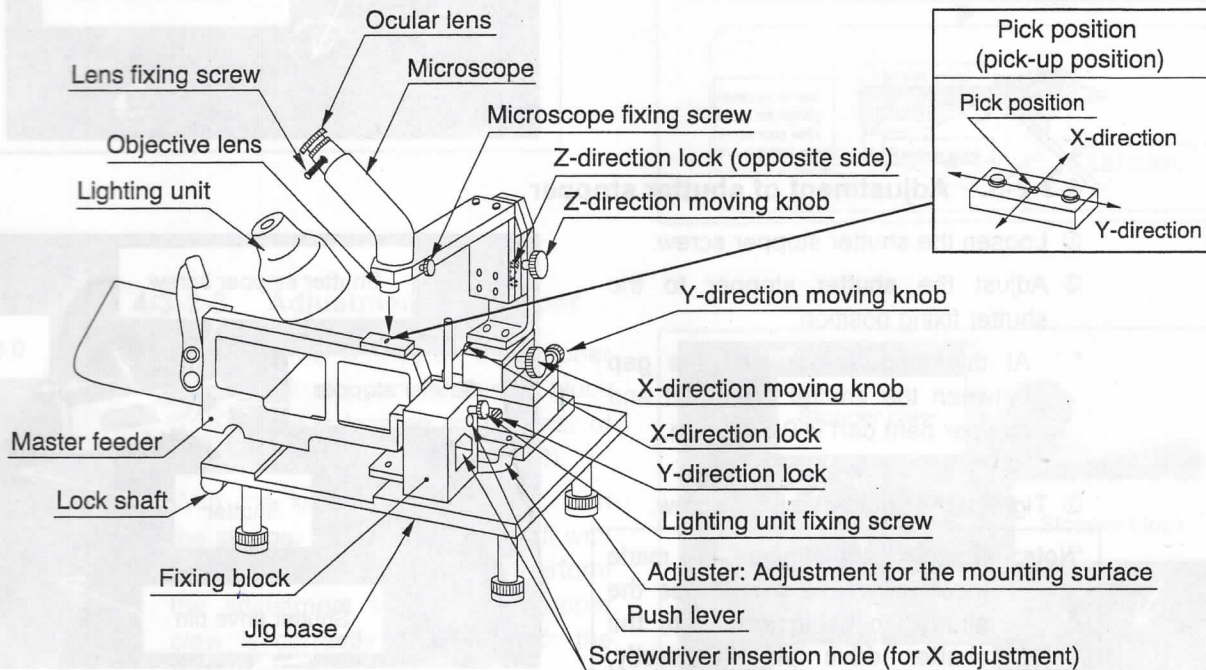
- (1) Loosen the fixing screws for the lock holder block. (To facilitate a fine adjustment of the block, loosen the fixing screws so as to give proper resistance to the motion.)
- (2) Set the Y-axis adjusting tool and turn this tool to adjust the pick position to the following position. Fix it in this status.

Coincide the feeder mark with the Y axis of the inspection jig. ($\pm$)

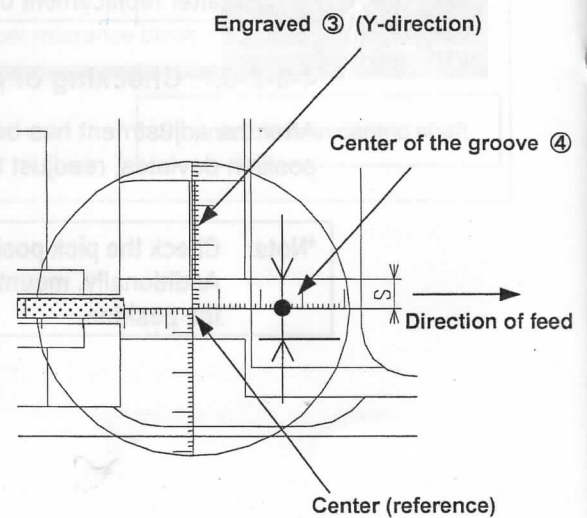


4-4. Method of Inspecting the Bulk Feeder

- (1) Perform the operations described in 4.1.
- (2) Set the bulk feeder securely in the jig.
- (3) If an out-of-focus status is caused by a difference in the Z-direction (direction of height) of the pick position depending on the model, release the lock in the Z-direction and make an adjustment with the Z-direction moving knob, and then lock it again.
- (4) Measure the deviation between the X-axis and Y-axis of the cross cursor in the microscope and the stamps of ① and ②, or the deviation between the X- and Y-axes and the engraved ③ and the center of the groove ④.



BF10 series



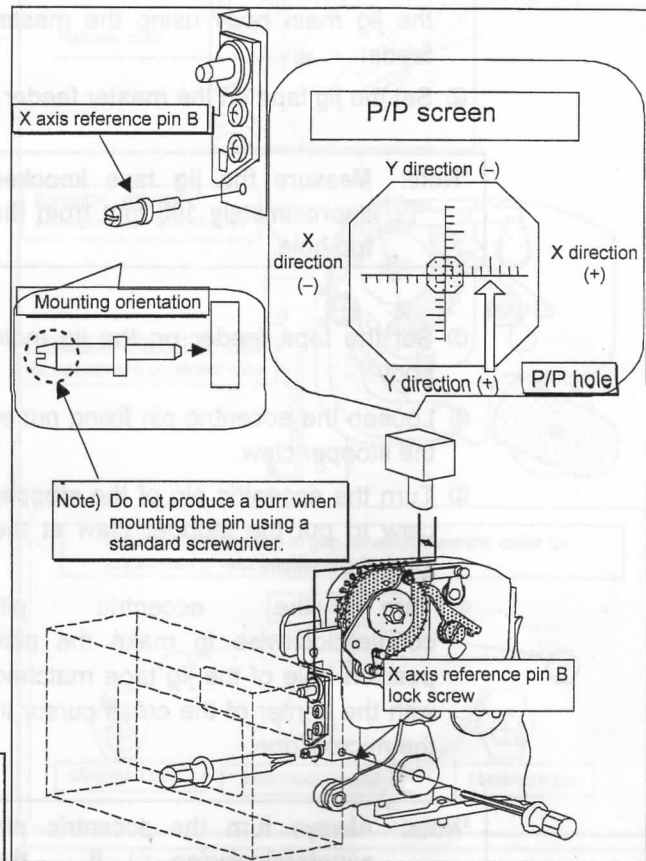
BF20 series

4-3-1-2. Adjustment of X direction reference pin B (FTF), (CTF)

Carry out this adjustment after steps ① and ② in above adjustment (2) have been performed.

- ① Set the X axis reference pin B on the feeder base.
- ② Turn the X axis reference pin B to perform the adjustment so that the X axis pick position is located at the same position (center of the cross cursor in the microscope), and then secure the X axis reference pin B using the X axis reference pin B lock screw.
- ③ Mount and remove the tape feeder about twice to check that the pick position is not changed and that the insertion status is correct.
- ④ Move the knock lever several times to check that the pick position does not deviate.

***Note:** At this time, slowly move the knock lever to perform the feed operation of the feeder.



4-3-1-3. Adjustment of Y direction pick position(FTF), (CTF)

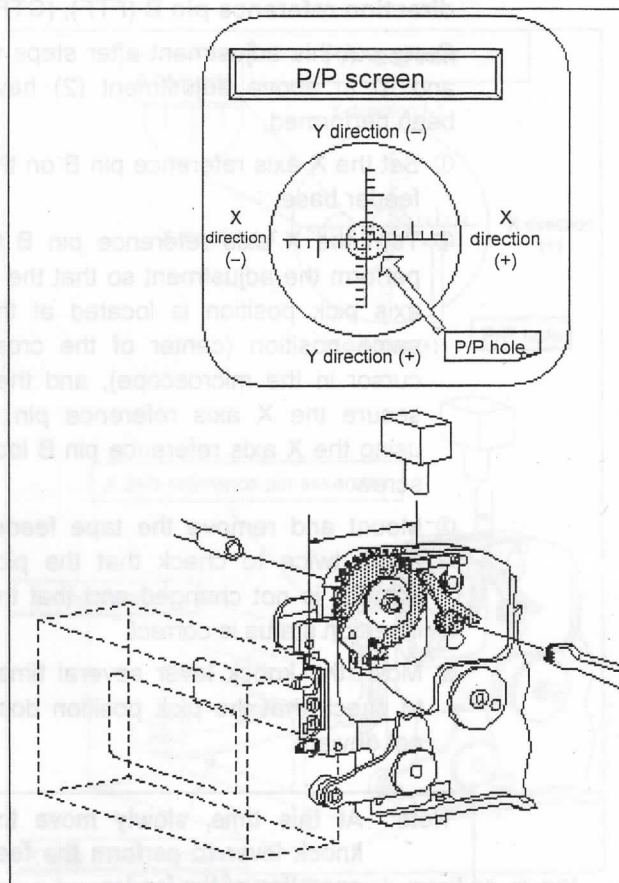
- ① Check and adjust the pick position of the jig main body using the master feeder.
- ② Set the jig tape on the master feeder.

***Note:** Measure the jig tape knocked approximately 100 mm from the top hole.

- ③ Set the tape feeder on the jig main body.
- ④ Loosen the eccentric pin fixing nut of the stopper claw.
- ⑤ Turn the eccentric pin of the stopper claw to put the stopper claw at the lowest position.
- ⑥ Turn the eccentric pin counterclockwise to make the pick position hole of the jig tape matched with the center of the cross cursor in the microscope.

***Note:** Always turn the eccentric pin counterclockwise. If the adjustment is made by turning the eccentric pin clockwise, this may cause the position to be unstable.

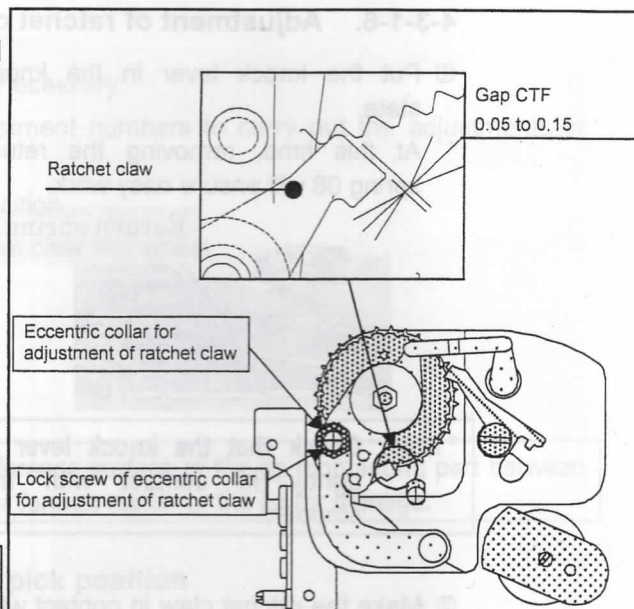
- ⑦ Secure the eccentric pin nut.
- ⑧ Move the knock lever several times to check that the pick position does not deviate.



4-3-1-4. Adjustment of gap between ratchet claw and wheel (FTF), (CTF)

- ① Loosen the eccentric collar lock screw for adjustment of the ratchet claw.
- ② Turn the eccentric collar for adjustment of the ratchet claw to make adjustment so that the gap between the ratchet claw and ratchet wheel is 0.05 to 0.15 mm.
- ③ Secure the eccentric collar lock screw for adjustment of the ratchet claw.

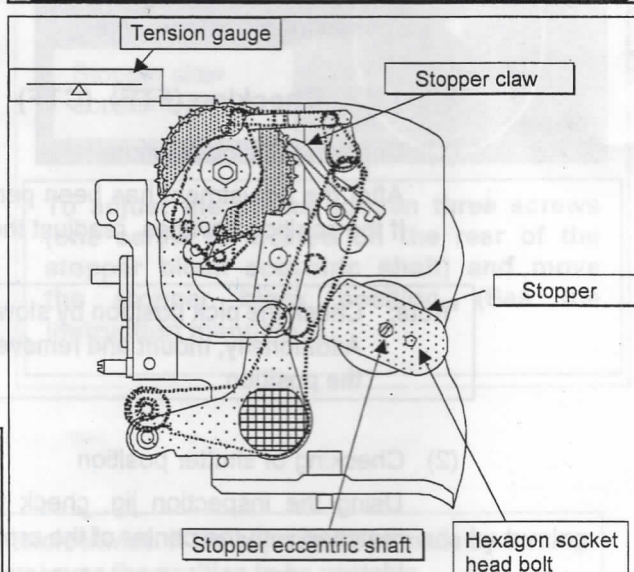
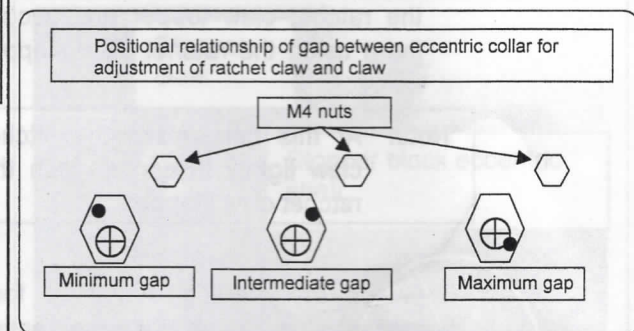
*: As shown in Section 4-3-1-5 on the next page, check that the ratchet claw is returned correctly when a load is applied to the ratchet wheel from the side.



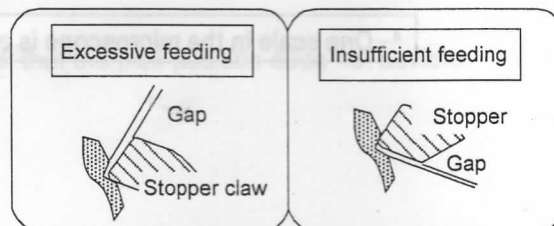
4-3-1-5. Adjustment of stopper (FTF), (CTF)

- ① Loosen the hexagon nut and hexagon bolt on the side opposite to the stopper.
- ② Apply a load (800 - 1000g) to the ratchet wheel from the side to make the rotation difficult. (This ensures the same conditions as those when the tape is set.)
- ③ Adjust the stopper eccentric shaft so that the ratchet claw keeps the ratchet wheel with the knock lever pressed and the stopper claw is tightly in contact with the ratchet wheel.

*Note: Make the stopper claw tightly in contact with the ratchet wheel so that "excessive feeding" or "insufficient feeding" shown on the right Fig. does not occur.



- ④ Check the feeding status at four locations or more on the entire periphery of the ratchet wheel.
- ⑤ Tighten the hexagon bolts and hexagon nuts in order to secure the stopper.
- ⑥ Recheck the feeding status at four locations or more on the entire periphery of the ratchet wheel.



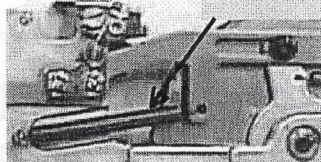
Note) After the stopper has been adjusted, always recheck adjustment No. 4 before starting adjustment of the ratchet claw stopper.

4-3-1-6. Adjustment of ratchet claw stopper (FTF), (CTF)

- ① Put the knock lever in the knock state.

* At this time, removing the return spring 08 will ensure easy work.

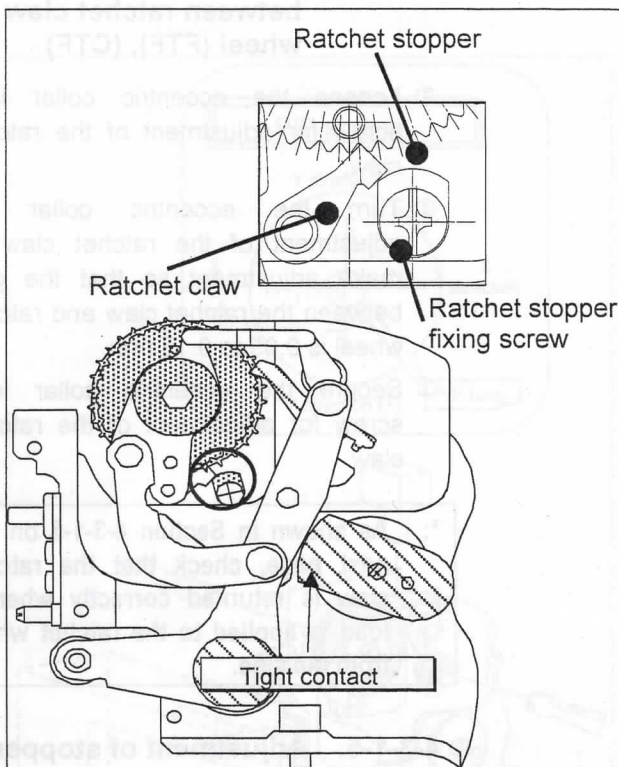
Return spring 08



*** Note:** Check that the knock lever is tightly in contact with the stopper.

- ② Make the ratchet claw in contact with the ratchet claw stopper and secure them using the ratchet claw stopper screw.

***Note:** At this time, make the ratchet claw lightly in contact with the ratchet claw stopper.



- ③ Check the feeding status at four locations or more on the entire periphery of the ratchet wheel.

4-3-1-7. Checking (FTF), (CTF)

- (1) Checking of pick position

After the adjustment has been performed, recheck the pick position on the main body. If the position deviates, readjust the pick position.

***Note:** Check the pick position by slowly knocking several parts. Additionally, mount and remove the tape feeder about three times to repeatedly check the position.

- (2) Checking of shutter position

Using the inspection jig, check that the center of the shutter in the X direction is matched with the center of the cross cursor in the microscope.

If the positional deviation is ± 0.1 mm or more, replace the upper cover.

*** One scale in the microscope is equivalent to 0.05 mm.**

4-3-2. 32 mm - 72 mm tape feeder

Carry out the following adjustments when necessary.

To adjust multiple parts, follow the adjustment numbers to carry out the adjustments in order.

- (1) Adjustment of Y direction pick position
- (2) Adjustment of gap between ratchet claw and wheel
- (3) Adjustment of stopper
- (4) Adjustment of shutter stroke
- (5) Adjustment of shutter stopper
- (6) Adjustment of pick position

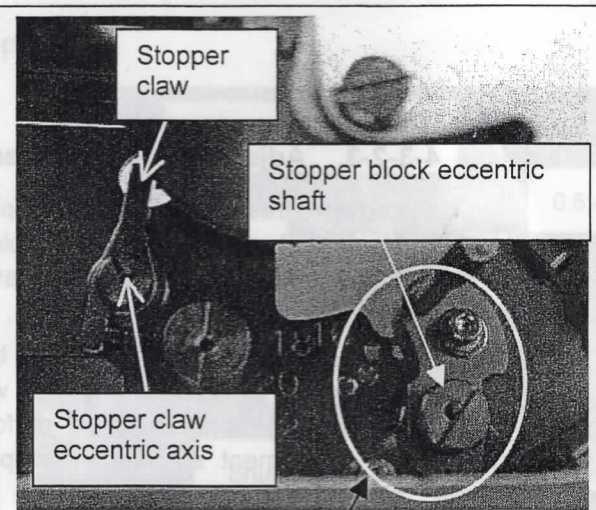
***Note:** Before using the jig, check the reference surface of the jig (contacting part between the inspection jig and jig feeder) for foreign matter or the jig for damage.

4-3-2-1. Adjustment of Y direction pick position

- ① Check and adjust the pick position of the jig main body using the master feeder.
- ② Set the jig tape on the master feeder.

*** Note:** Measure the jig tape knocked approximately 100 mm from the top hole.

- ③ Set the tape feeder on the jig main body.
- ④ Adjust the stroke when necessary.
- ⑤ Loosen the eccentric axis fixing bolt of the stopper claw.
- ⑥ Turn the eccentric pin of the stopper claw to put the stopper claw at the lowest position.
- ⑦ Turn the eccentric pin counterclockwise to make the pick position hole of the jig tape matched with the center of the cross cursor in the microscope.



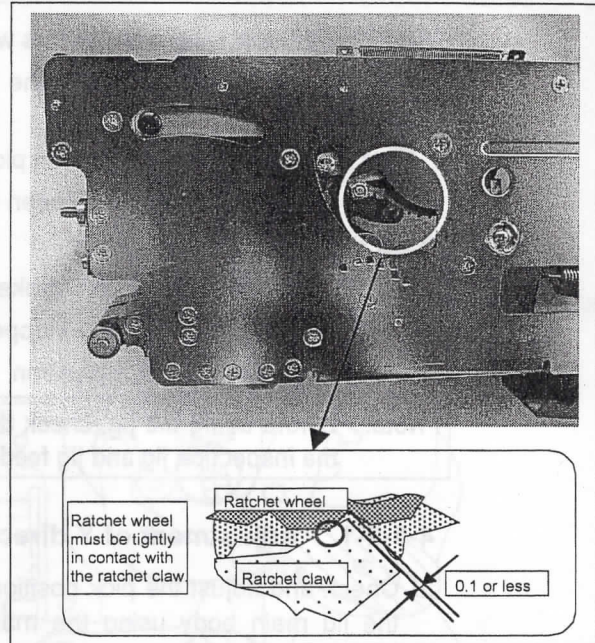
To adjust the stroke, loosen three screws (one screw is located on the rear of the stopper block eccentric shaft) and move the stopper block position. (See the instruction manual.)

***Note:** Always turn the eccentric pin counterclockwise. If the adjustment is made by turning the eccentric pin clockwise, this may cause the position to be unstable.

- ⑧ Secure the eccentric pin nut.
- ⑨ Move the knock lever several times to check that the pick position does not deviate.

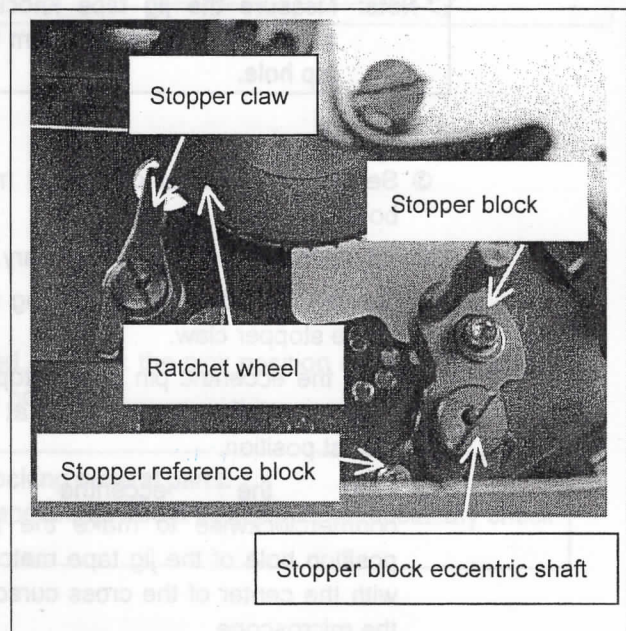
4-3-2-2. Adjustment of gap between ratchet claw and wheel

- ① Loosen the eccentric collar lock screw for adjustment of the ratchet claw.
- ② Turn the eccentric collar for adjustment of the ratchet claw to adjust the gap between the ratchet claw and ratchet wheel to 0.1 mm or less.
- ③ Secure the eccentric collar lock screw for adjustment of the ratchet claw.



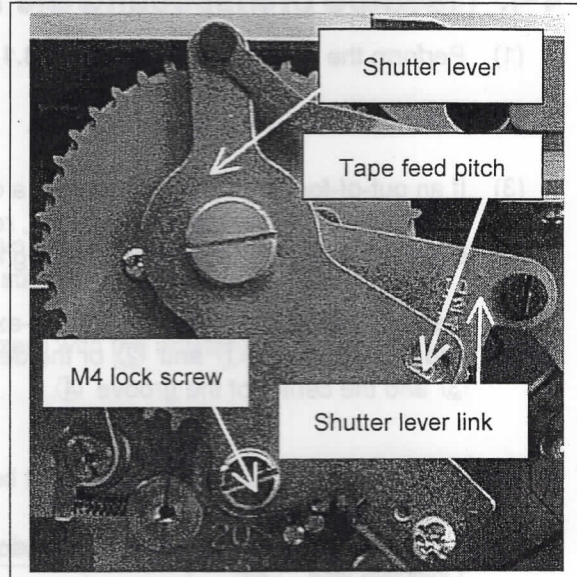
4-3-2-3. Adjustment of stopper

- ① Loosen three screws on the stopper block and stopper reference block (one screw is located on the rear of the stopper block eccentric shaft).
- ② With the knock lever pressed, turn the stopper block eccentric shaft with a standard screwdriver to perform the adjustment so that the stopper claw is correctly engaged with the ratchet wheel.
- ③ Tighten three screws, which have been loosened in step ① while pressing the stopper with a standard screwdriver not to turn the stopper block eccentric shaft.
- ④ Check the feeding status at four locations or more on the entire periphery of the ratchet wheel.



4-3-2-4. Adjustment of shutter stroke

- ① Loosen the M4 lock screw securing the shutter lever and shutter lever link, and the stopper screw shown in section 3-2-5.
- ② Adjust the tape feed pitch value through the shutter lever numeric value inspection hole.
- ③ Tighten the M4 lock screw with the nut held by your hand.

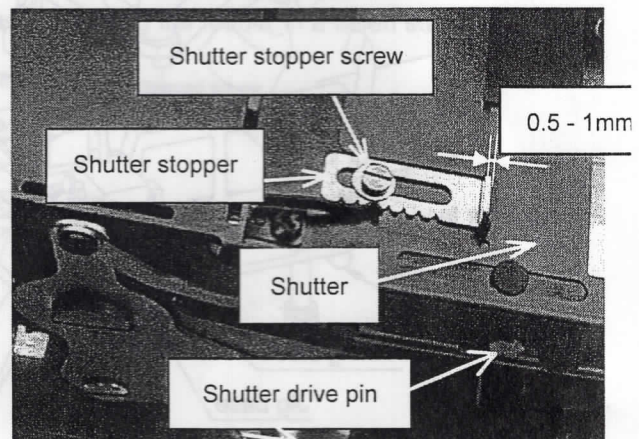


4-3-2-5. Adjustment of shutter stopper

- ① Loosen the shutter stopper screw.
 - ② Adjust the shutter stopper to the shutter fixing position.
- * At this time, check that the gap between the shutter bent part and stopper bent part is 0.5 - 1 mm.

- ③ Tighten the shutter stopper screw.

***Note:** If this adjustment is made incorrectly, this may cause the shutter to be inserted into the shutter drive pin incorrectly, resulting in breakage of the shutter when closing the shutter after replacement of the tape.



4-3-2-6. Checking of pick position

After the adjustment has been performed, recheck the pick position on the main body. If the position deviates, readjust the pick position.

***Note:** Check the pick position by slowly knocking several parts. Additionally, mount and remove the tape feeder about three times to repeatedly check the position.

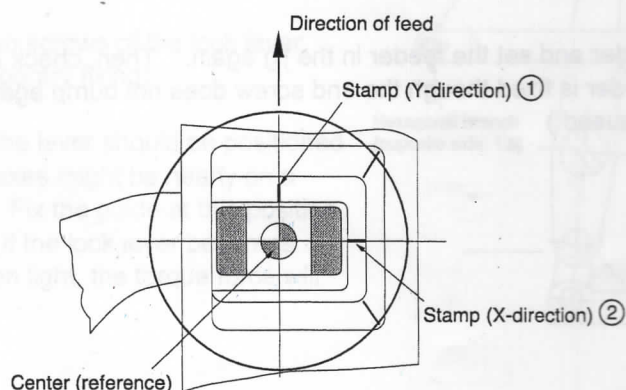
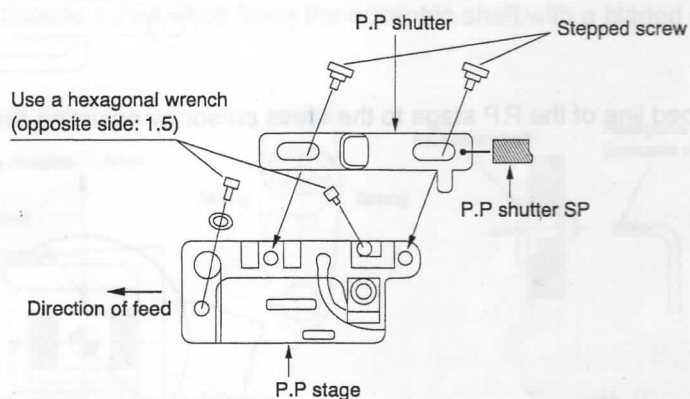
4-5. Deviation Adjusting Method for Bulk Feeder (BF10 Series) Pick Position

4-5-1. X-direction adjustment

- (1) Remove the P.P shutter SP.
- (2) Next, remove the P.P shutter by loosening the two stepped screws with a small screwdriver (bladed). (Because the other screw of the P.P stage exists under it.)
- (3) Set the feeder in the jig. (Check if X-Y is zero-zero with the master jig.)
- (4) Check the deviation.
- (5) Shift the P.P stage by hand to adjust the stamped line of the P.P stage to the cross cursor.
- (6) Fix the P.P stage with a screw while holding it by hand. Tighten the other screw, too.

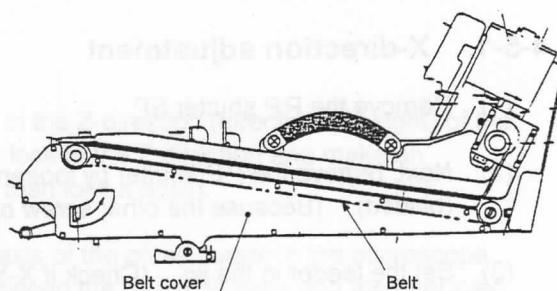
<Check>

Give a turn to the feeder and set it in the jig again to check if there is no deviation.
(When tightening a screw, a deviation may be caused by fixing the feeder in a fallen status.)



4-5-2. Y-direction adjustment

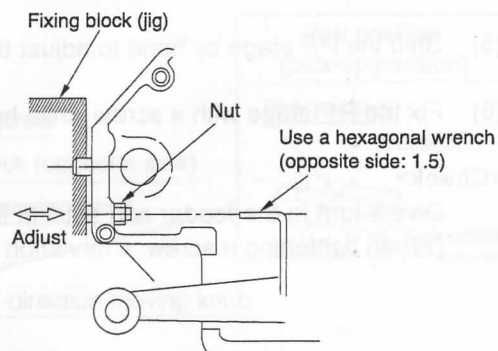
- (1) Remove the belt cover by loosening a total of 12 screws.



- (2) Set the feeder in the P.P inspection jig.
(Check with the master jig if X-Y is zero-zero.)

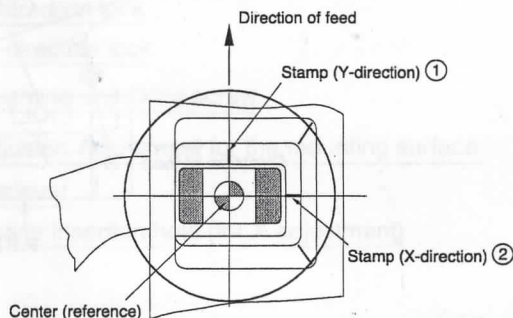
- (3) Check the deviation.

- (4) Loosen the nut. (Temporary fixing)



- (5) Adjust the stamped line of the P.P stage to the cross cursor by adjusting the screw.

- (6) Fix the nut.

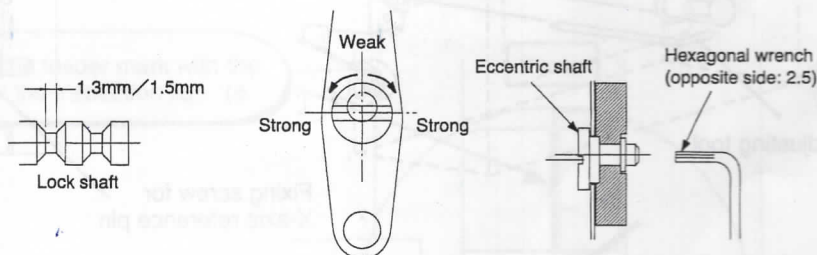
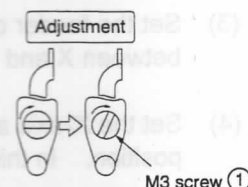


<Check>

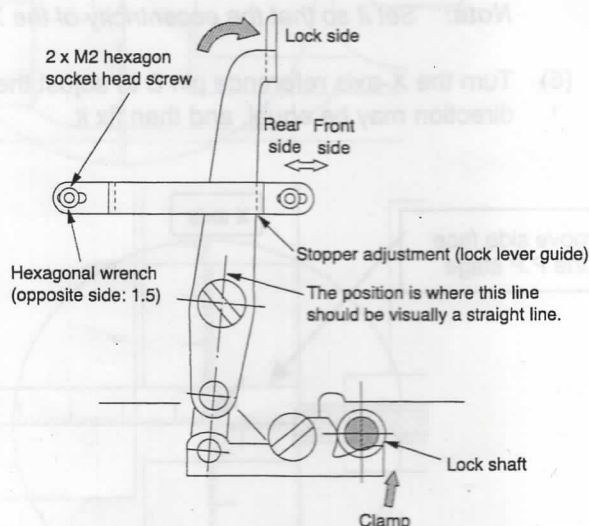
Give a turn to the feeder and set the feeder in the jig again. Then, check if there is no deviation. (If the feeder is fixed though the end screw does not bump against the fixing plate, a deviation may be caused.)

4-5-3. Adjusting the toggle clamp after Y-direction adjustment

- (1) Adjust the eccentric shaft of the lock lever as follows.
- (2) Remove the belt cover.
- (3) Set the feeder in the P.P inspection jig.
- (4) Loosen the eccentric shaft by inserting a hexagonal wrench in the threaded hole on the opposite side.
- (5) Minimize the torque force of the eccentric shaft of the lock lever as shown in the figure at right, and tighten the adjusting screw ① clockwise from this position in the range of 90° to 120° .
- (6) Check the weight at clamping.
- (7) The weight depends on the type of lock shaft of the main body.
Measure the weight at the end of the lock lever by using a spring balance.
[1.3 mm]: 4 ± 0.5 kg
[1.5 mm]: 2 ± 0.5 kg
- (8) Tighten the opposite screw while fixing the eccentric shaft with a bladed screwdriver.



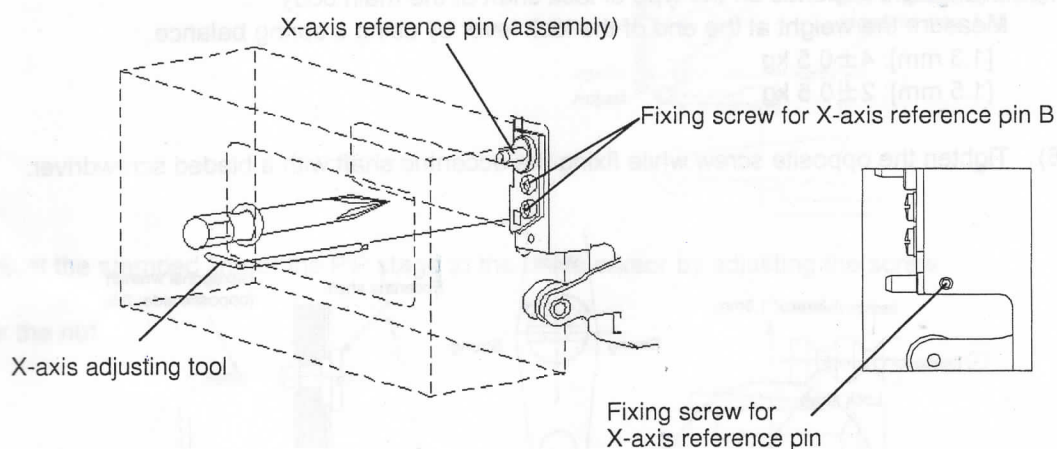
- (9) Adjust the lock lever guide as follows.
- (10) After adjusting the eccentric shaft, perform the following operations in succession.
- (11) Loosen the two screws of the lock lever guide. (Temporary fixing)
- (12) At clamping, the lever should be positioned so that the 3 axes might be nearly on a straight line. Fix the guide at this position. (At clamping, if the lock lever becomes heavy and then light, the torque force will be lowered.)



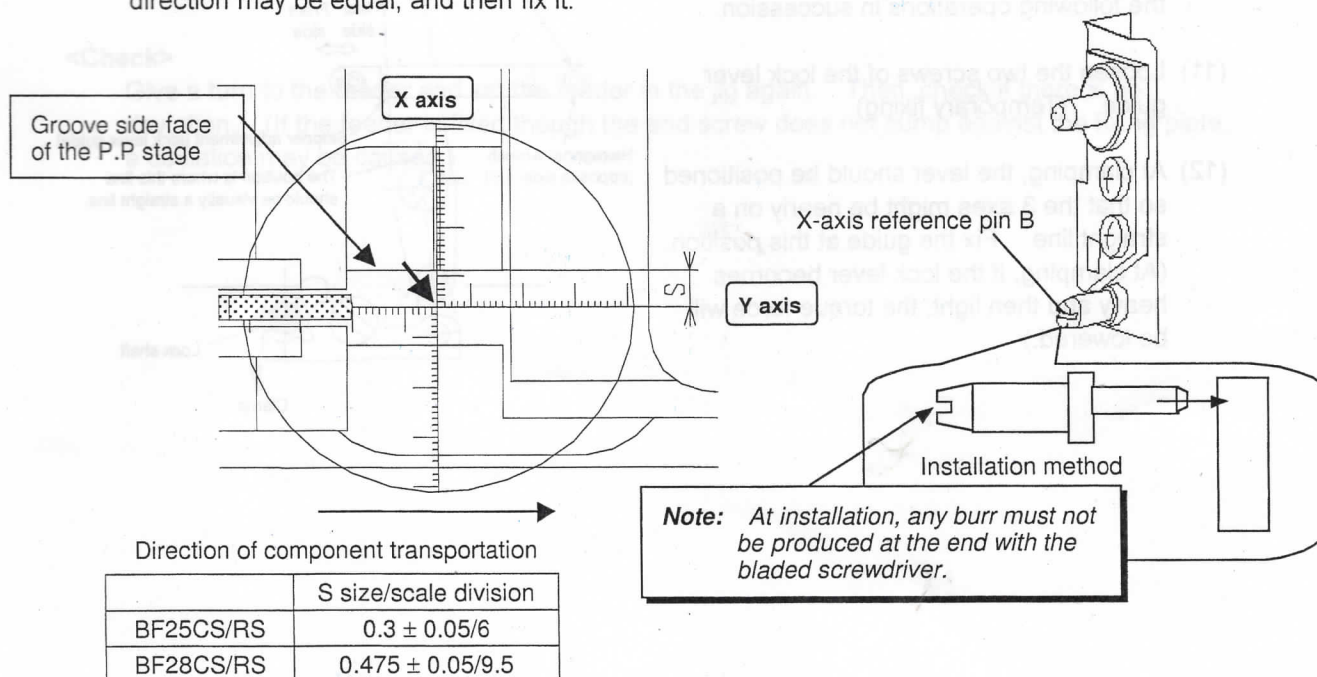
4-6. Deviation Adjusting Method for Bulk Feeder (BF20 Series) Pick Position

4-6-1. X-direction adjustment

- (1) Loosen the fixing screw of X-axis reference pin B and pull out the reference pin.
- (2) Loosen the set screw of the X-axis reference pin (assembly). (To facilitate a fine adjustment of the X-axis reference pin (assembly), loosen the set screw so as to give proper resistance to the motion.)
- (3) Set the feeder on the inspection jig. (Make sure with the master jig that there is match between X and Y.)
- (4) Set the X-axis adjusting tool and turn this tool to adjust the pick position to the following position. In this status, fix the X-axis reference pin B.



- (5) Next, set the X-axis reference pin B on the base.
Note: Set it so that the eccentricity of the X-axis reference pin B may face downward.
- (6) Turn the X-axis reference pin B to adjust the pick position so that the pick position in the X direction may be equal, and then fix it.

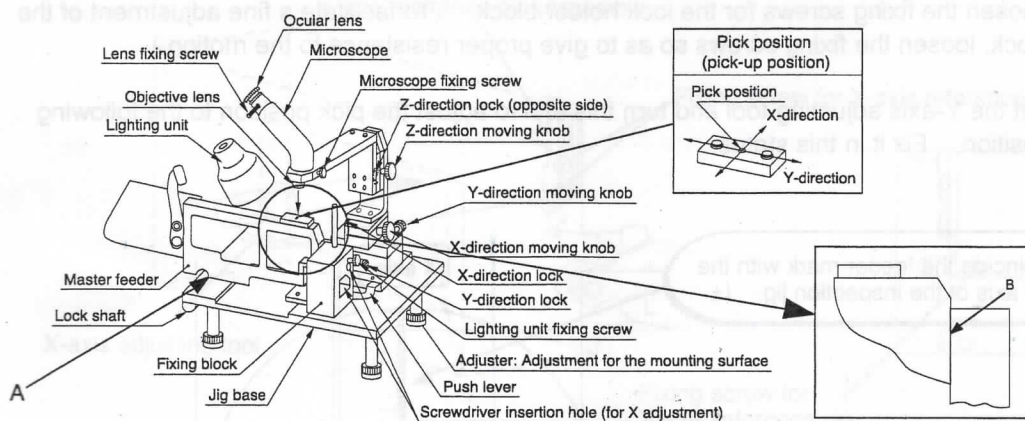


5. Maintenance

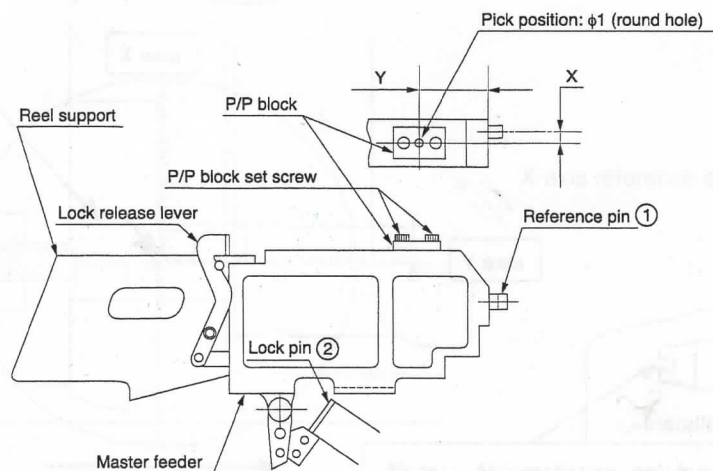
5-1. Routine Inspection

Note: Always inspect the following items (1) - (3) before using the inspection jig.

- (1) Check if there is not any projection (convex portion) due to contact flaw or foreign particle (dust, etc.) on the contact surface (portion A in the following figure) with the feeder base of master feeder.
- (2) Check if there is not any projection (convex portion) due to contact flaw or foreign particle (dust, etc.) on the contact surface (portion B in the following figure) with the master feeder of the fixing block.



- (3) Visually check if there is not any breakage of jig tape 8 or any wear on the fitting hole for the jig tape 8 and the sprocket.
- (4) After using the master feeder, apply anti-corrosive oil to the reference pin ① and the lock pin ②.



5-2. Consumables

No.	Product No.	Product name
1	E6255705000	Jig tape 8
2	E6242705000	Lamp A: 120 V, 15 W
	E6243705000	Lamp B: 240 V, 15 W

} Either of these lamps is selected according to the destination.

5-3. Accessories

No.	Accessory No.	Accessory name	Quantity
1	E6255705000	Jig tape 8	1
2	E6256705000	X-axis adjusting tool	1
3	E6213705000	Box type screwdriver 7	1
4	E6214705000	Box type screwdriver 5.5	1
5	E6247705000	Screwdriver (bladed)	1
6	A9110776000	Small screwdriver (bladed)	1
7	E6212705000	Wrench	1
8	MA117001000	Hexagonal wrench key 1.5	1
9	J106600000C	Hexagonal wrench key 2.5	1
10	E6249705000	Screwdriver (Phillips)	1

5-4. Jig and Tool

5-4-1. Types of Jig Tape

The different types of jig tape shown in the following table are separately available for various carrier tape widths of the tape feeder.

No.	Carrier tape width	Product No.	Product name
1	12mm	E6280705000	Jig tape 12
2	16mm	E6281705000	Jig tape 16
3	24mm	E6282705000	Jig tape 24
4	32mm	E6283705000	Jig tape 32
5	44mm	E6284705000	Jig tape 44
6	56mm	E6285705000	Jig tape 56
7	72mm	E6286705000	Jig tape 72

Check the carrier tape width referring to **3.1 Applicable Models** on page 2.

5-4-2. Master Feeder assembly

The different types of master feeder assembly shown in the following table are separately available.

When you purchase a JIG FOR CHECKING A FEEDER, purchase this Master feeder assembly also.

No.	Accessory No.	Accessory name	Quantity
1	E62607050A0	master feeder assembly (For FTF)	1
2	E6215706CA0	master feeder assembly (For CTF)	1

5-4-3. Tool for a Bulk Feeder

The lock holder block adjustment tool, which is used to make the Y-direction adjustments, is not supplied with this machine. When you purchase a bulk feeder, purchase this tool also.

No.	Part number.	Part name	Quantity
1	E6253705000	Lock holder block adjustment tool	1

E0120FKJ1AA

Revision	Date
00	2000. 01
01	2002. 04
02	2003.02

- Specifications are subject to be changed without notice.

JUKI®

JUKI CORPORATION

ELECTRONIC ASSEMBLY & TEST SYSTEMS DIVISION
SALES & MARKETING DEPT.
8-2-1, KOKURYO-CHO, CHOFU-SHI, TOKYO 182-8655, JAPAN
PHONE: 81-3-3480-3371 FAX: 81-3-3488-1971

<http://www.juki.co.jp/>

JUKI 株式会社 産業装置事業部

● 営業問い合わせ先 :

営業本部

〒182-8655 東京都調布市国領町 8 丁目 2 番地 1 号

☎ (03) 3480-3330

FAX: (03) 3488-1971

〒532-0003 大阪市淀川区宮原 2-1-17

☎ (06) 4807-2355

新大阪プロスペルビル 5F

FAX: (06) 6393-8955

● 技術問い合わせ先 :

カスタマーサービス部

〒182-8655 東京都調布市国領町 8 丁目 2 番地 1 号

☎ (03) 3488-9201

FAX: (03) 3480-0281

〒532-0003 大阪市淀川区宮原 2-1-17

☎ (06) 6394-0390

新大阪プロスペルビル 1F

FAX: (06) 6394-1390

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