

**Model:** GP605  
GP605P

GP555

**Ref. No. :** FF-T01-K1-000066-01

**Date :** October 12, 2000

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**Location:** Developing Assembly

**Subject:** Field Measure for “Light Image” due to Degradation of Toner

**Reason:** It is conceivable that the “light image” problem arising in the field is attributable to degradation of toner in the developer. The field measure to alleviate the degradation of toner is provided here.

**Details:** <Symptom>  
Whole image becomes light.

<Cause>

In case the amount of toner used is rather small \*, considering the number of drum rotations, the electric charge of toner is lowered, resulting in light image.

\* e.g.) An intermittent copy is frequently made. Originals with low black ratio are frequently copied. A machine is used in the high temperature and high humidity environment.

< Factory Measures >

Move the magnetic pole on the developer by 5 degrees.

<Reason why moving the magnetic pole by 5 degrees improves the symptom>

The magnetic pole is located at the opposite side of the magnetic blade. Therefore, only highly charged toner is deposited on the cylinder. By moving the magnetic pole by 5 degrees, the magnetic force between the magnetic blade and the cylinder get weaken, and less charged toner can become deposited on the cylinder.

**Servicing Work:**

**When you “move the magnetic pole by 5 degrees,” make sure to “throw out the toner in the developer.”**

Caution: This measure does not have an effect over already degraded toner in the developer. Be sure to “throw out the existing toner in the developer” when you “move the magnetic pole by 5 degrees.”

**1. Procedure of “moving the magnetic pole by 5 degrees” by using a “new positioning plate.”**

- 1) Detach the developer from the main unit.
- 2) Remove a screw securing the positioning plate and the positioning plate itself at the front side of the developing assembly.

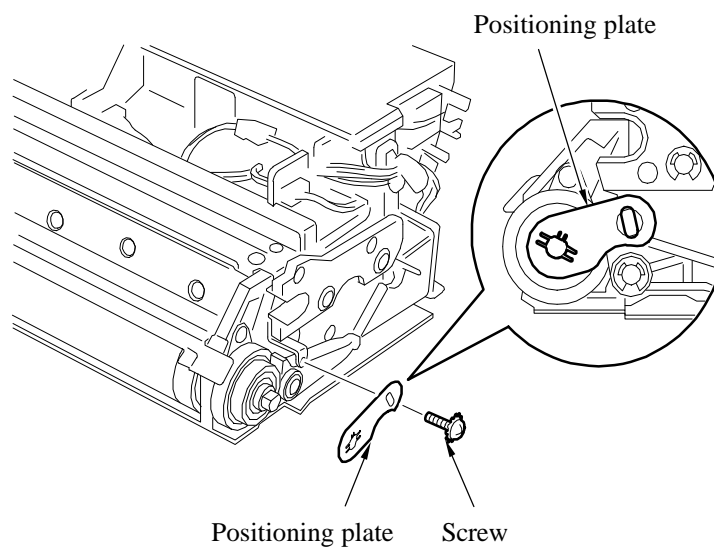


Figure 1

- 3) Mount the new positioning plate on the sleeve shaft.
- 4) Rotate clockwise the sleeve shaft with the positioning plate securely mounted by 2 graduations.  
(Move the magnetic pole by 5 degrees.)

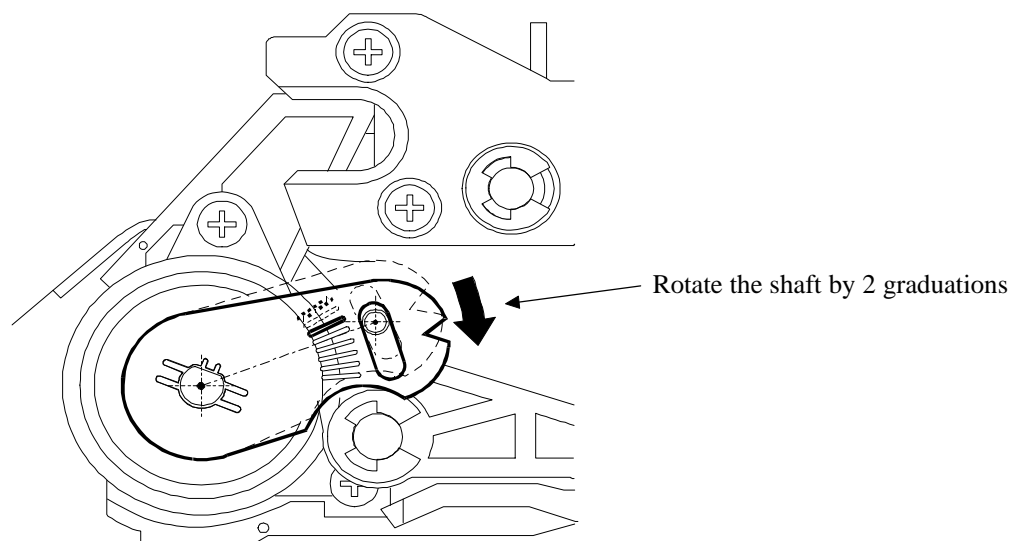


Figure 2

- 5) Tighten the screw for preventing the position set in Step 4 from shifting.
- 6) When the positioning plate is mounted, put a spacer (with approx. 0.2mm width) under the plate.  
Once the plate is successfully mounted, remove the spacer.

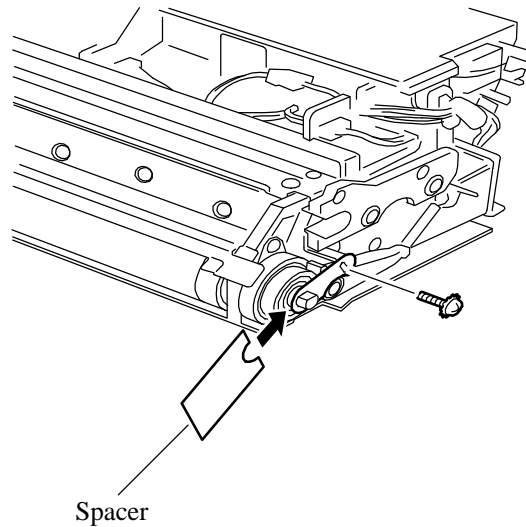


Figure 3

- 7) Install the developer to the main unit.

## 2. Procedure of “moving the magnetic pole by 5 degrees” by using the “old positioning plate.”

If you do not have a new positioning plate (with graduations), you can “move the magnetic pole by 5 degrees” by using the existing plate (i.e., old part). (Please see the procedure described below.)

- 1) Detach the developer from the main unit.
- 2) Remove a screw securing the positioning plate and the positioning plate at the front side of the developing assembly.
- 3) Re-install the positioning plate just removed to the sleeve shaft.

- 4) While the positioning plate stays without displacement as it is, draw a line as a guide on an assumed straight line connected between the center point of the sleeve and the screw.

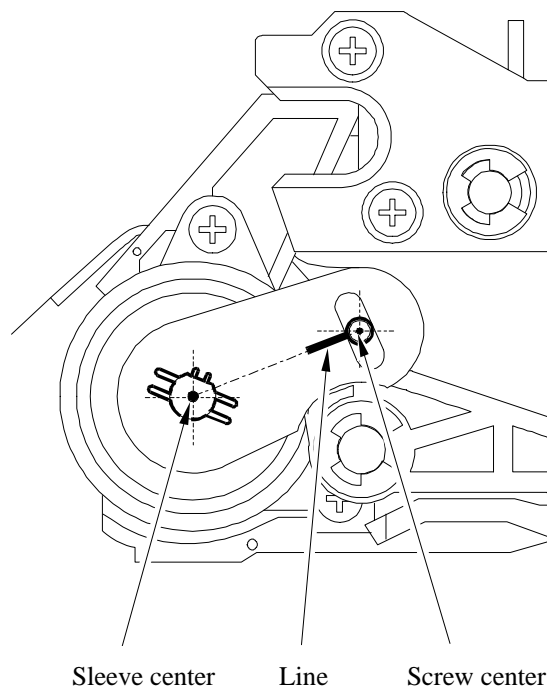


Figure 4

- 5) Draw a parallel line at 1.7mm above from the line drawn in Step 4.

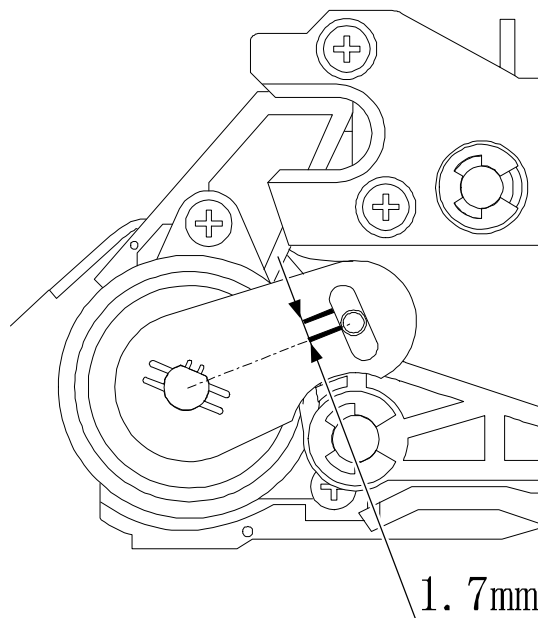


Figure 5

- 6) Rotate the positioning plate clockwise with fingers until the line drawn in Step 5 comes to the screw center. (Move the magnetic pole by 5 degrees.)

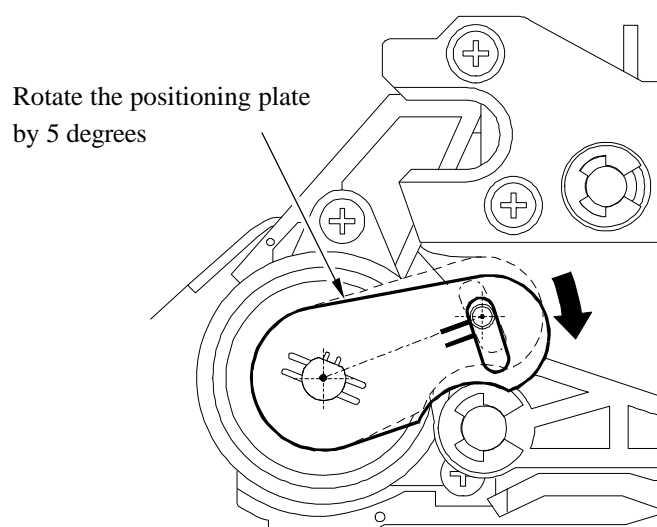


Figure 6

- 7) Tighten the screw for preventing the position set in Step 6 from shifting.
- 8) When the positioning plate is mounted, put a spacer (with approx. 0.2mm width) under the plate. Once the plate is successfully mounted, remove the spacer.
- 9) Install the developer to the main unit.

### Service Parts:

No.	Description		Part number	Q'ty	Stock	Inter-change-ability	PC. ----- Stock date
1	Old	PLATE, MAGNET POSITIONING	FB4-1820-000	1→0	A	↓ No	640-5
	New	PLATE, MAGNET POSITIONING	FB4-1820-020	0→1	D	↑ Yes	In stock

### Affected Machines:

imageRUNNER 600	F13-5631	NLE15321 and later
GP605 (230V, general)	F13-5641	PLP00659 and later
GP605 (CA)	F13-5661	RLE00458 and later
imageRUNNER 550	F13-5638	NNT15466 and later
imageRUNNER 60	F13-5633	NQF00109 and later