

**Model:**

LaserBase MF6530  
LaserBase MF6540PL  
LaserBase MF6550  
LaserBase MF6560PL  
LaserBase MF6580PL

**Ref No.:**

MF6500-014 Rev. 3  
(F9-T01-M00-10030-04)

**Date:**

October 2007

**Location:**

Internal Components 2

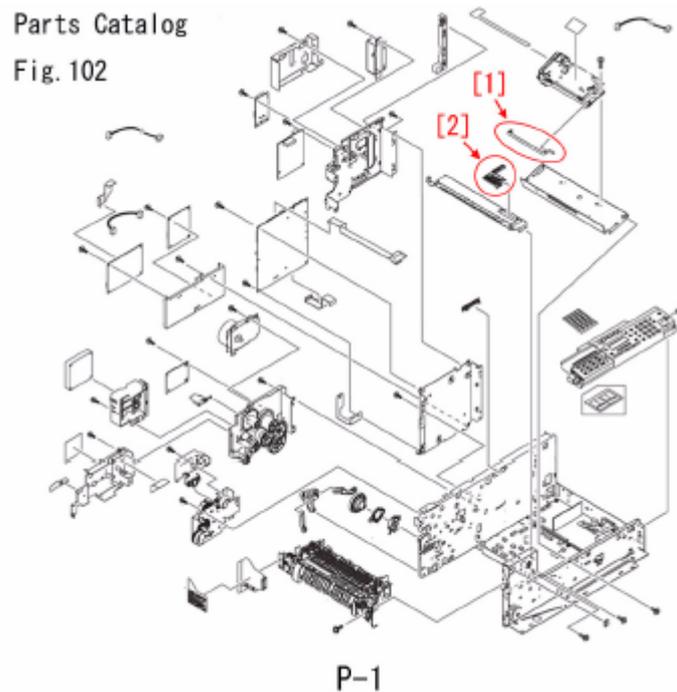
**Subject:**

Prevention of blank image (modifying the shape of the laser shutter and applying grease to the laser shutter arm)

**Detail:**

<Symptom>

Since the laser shutter [1] is not opened when the toner cartridge is inserted into the machine, a blank image is output in some cases.

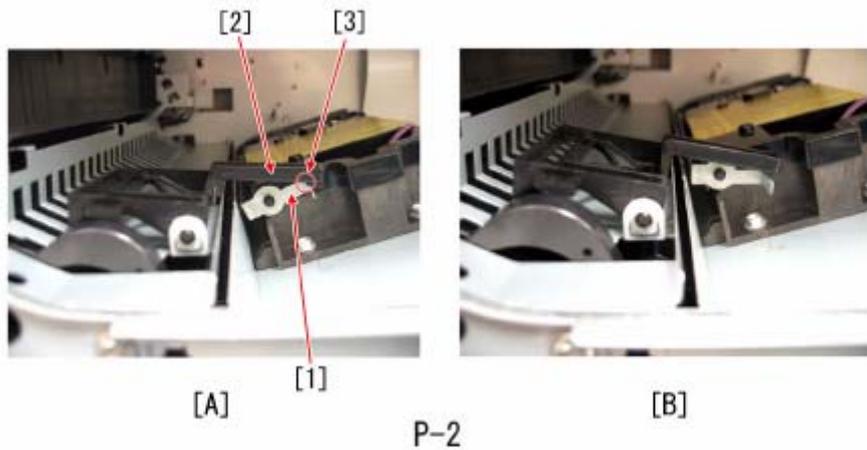


[1] Laser shutter

[2] Laser shutter arm

<Cause>

When the toner cartridge is inserted, the laser shutter arm [2] pushes down on the laser shutter [1]. In case that the arm has a scratch on its sliding surface, however, it is caught in the area [3] where the arm comes into contact with the shutter, preventing the shutter from being opened.



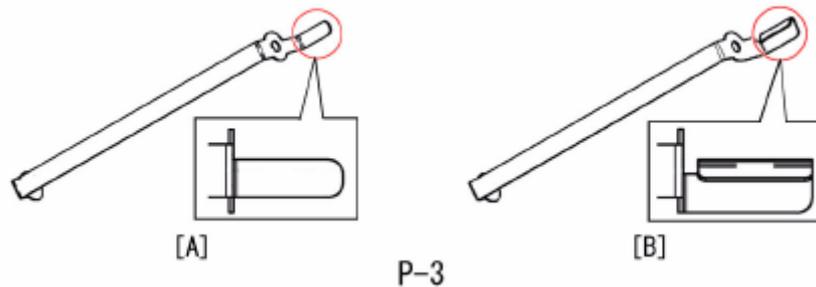
[A] View of the **closed** laser shutter  
 [B] View of the **opened** laser shutter

[1] Laser shutter  
 [2] Laser shutter arm  
 [3] Area where the arm is caught

<Factory measures>

a. Modifying the shape of the laser shutter

Modify the shape of the laser shutter so as to prevent the shutter from being caught when the laser shutter arm pushes it (A turnback is added to the edge of the area that contacts the laser shutter arm).

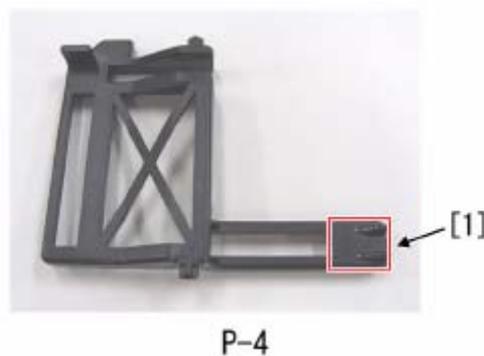


P-3 Laser shutter

[A] Old type  
 [B] New type

b. Applying grease to the laser shutter arm

To decrease the sliding resistance of the contacting surface (P-2 [3]) of the laser shutter arm and laser shutter, apply grease to the laser shutter arm.

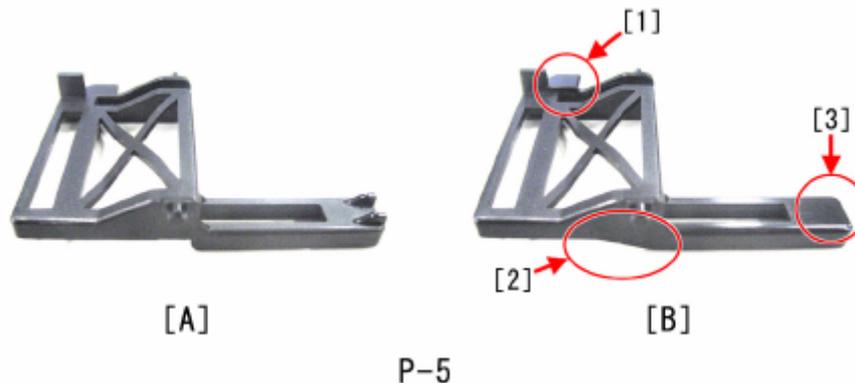


P-4 Laser shutter arm

[1] Grease application area

c. Changing the shape of the laser shutter arm and applying grease to it.

To decrease the sliding resistance of the contacting surface of the laser shutter arm and laser shutter, change the shape of the laser shutter arm. Additionally, apply grease to the arm.



P-5 Laser shutter arm  
[A] Old type  
[B] New type

[1] View of the rib in the new position  
[2] View of the new shape of rib  
[3] View of the arm from which the rib is removed

d. Discontinuing application of grease to the laser shutter arm.

It was confirmed that the new shape of the laser shutter and laser shutter arm do not need lubrication by grease for normal operation. From this, application of grease is discontinued.

#### Service Work:

When the foregoing symptom occurs, replace the laser shutter with the new type. In addition, remove the laser shutter arm and apply a rice-grain sized amount of grease (PERMALUB G No. 2); about 30mg) evenly to the area [1] shown in P-4. As for a machine having one of the serial numbers listed in “Affected Machines” below as “machines for which the shape change of the laser shutter is carried out”, only application of grease is required: there is no need to replace the laser shutter arm because the new type shutter has already been mounted onto them.

When replacing with the new type of laser shutter arm, there is no need to apply grease to it.

#### Service Parts:

No.	Part No.	Part Name	Q'ty	Stock	Compati- bility	Available from	Fig. No.
1	O FC6-7328-000	SHUTTER, LASER	1 > 0	C	N	In stock	102
	N FC6-7328-020	SHUTTER, LASER	0 > 1	D	Y		
2	O					In stock	-
	N CK-0551-020	LUBE, PERMALUB G NO. 2	0 > 1	F			
3	O FC6-7331-000	ARM, SHUTTER, LASER	1 > 0	C	N	In stock	102
	N FC6-7331-020	ARM, SHUTTER, LASER	0 > 1	D	Y		

#### Affected Machines:

- Machines for which the shape change of the laser shutter is carried out

LaserBase MF6530 EU1	SNF50048 and later
LaserBase MF6550 EU1	SNG50009 and later
i-SENSYS MF6530 EU1	BAC02001 and later
i-SENSYS MF6550 EU1	DAC02001 and later
LaserBase MF6540PL EU1	SNP50288 and later
LaserBase MF6560PL EU1	SNQ50001 and later
LaserBase MF6580PL EU1	SNR21266 and later
i-SENSYS MF6540PL EU1	EAC02001 and later
i-SENSYS MF6560PL EU1	FAC02001 and later
i-SENSYS MF6580PL EU1	GAC02001 and later
LaserBase MF6530 EU2	SNX50504 and later
LaserBase MF6550 EU2	SPB50568 and later
LaserBase MF6540PL EU2	SPC50196 and later
LaserBase MF6560PL EU2	SPD50012 and later
LaserBase MF6580PL EU2	SPF50288 and later
LaserBase MF6550 EU3	SPG50312 and later

LaserBase MF6560PL EU3	SPH50444 and later
LaserBase MF6580PL EU3	SPJ50384 and later
i-SENSYS MF6530 EU2	HAC02001 and later
i-SENSYS MF6550 EU2	NAC02001 and later
i-SENSYS MF6540PL EU2	PAC02001 and later
i-SENSYS MF6560PL EU2	QAC02001 and later
i-SENSYS MF6580PL EU2	SAC02001 and later
i-SENSYS MF6550 EU3	VAC02001 and later
i-SENSYS MF6560PL EU3	WAC02001 and later
i-SENSYS MF6580PL EU3	XAC02001 and later

- Machines for which both the shape change of the laser shutter and application of grease to the laser shutter arm is carried out

i-SENSYS MF6530 EU1	BAC02945 and later
i-SENSYS MF6550 EU1	DAC02865 and later
i-SENSYS MF6540PL EU1	EAC04003 and later
i-SENSYS MF6560PL EU1	FAC03073 and later
i-SENSYS MF6580PL EU1	GAC02833 and later
i-SENSYS MF6530 EU2	HAC02049 and later
i-SENSYS MF6550 EU2	NAC03737 and later
i-SENSYS MF6540PL EU2	PAC02633 and later
i-SENSYS MF6560PL EU2	QAC03593 and later
i-SENSYS MF6580PL EU2	SAC02105 and later
i-SENSYS MF6550 EU3	VAC03185 and later
i-SENSYS MF6560PL EU3	WAC02665 and later
i-SENSYS MF6580PL EU3	XAC03025 and later

- Machines for which the following are carried out: change of the laser shutter shape, applicatin of grease to the laser shutter arm, and change of the laser shutter arm shape

i-SENSYS MF6530 EU1	BAC02945 and later
i-SENSYS MF6550 EU1	DAC02865 and later
i-SENSYS MF6540PL EU1	EAC04003 and later
i-SENSYS MF6560PL EU1	FAC03073 and later
i-SENSYS MF6580PL EU1	GAC02833 and later
i-SENSYS MF6530 EU2	HAC02049 and later
i-SENSYS MF6550 EU2	NAC03737 and later
i-SENSYS MF6540PL EU2	PAC02633 and later
i-SENSYS MF6560PL EU2	QAC03593 and later
i-SENSYS MF6580PL EU2	SAC02105 and later
i-SENSYS MF6550 EU3	VAC03185 and later
i-SENSYS MF6560PL EU3	WAC02665 and later
i-SENSYS MF6580PL EU3	XAC03025 and later

- Machines for which the following is carried out: discontinuance of application of grease to the laser shutter arm

i-SENSYS MF6530 EU1	BAC02946 and later
i-SENSYS MF6550 EU1	DAC03161 and later
i-SENSYS MF6540PL EU1	EAC04003 and later
i-SENSYS MF6560PL EU1	FAC03073 and later
i-SENSYS MF6580PL EU1	GAC02833 and later
i-SENSYS MF6530 EU2	HAC02121 and later
i-SENSYS MF6550 EU2	NAC03737 and later
i-SENSYS MF6540PL EU2	PAC02633 and later
i-SENSYS MF6560PL EU2	QAC03593 and later
i-SENSYS MF6580PL EU2	SAC02105 and later
i-SENSYS MF6550 EU3	VAC03185 and later
i-SENSYS MF6560PL EU3	WAC02665 and later
i-SENSYS MF6580PL EU3	XAC03025 and later