

Issued by Canon Europa N.V.

Model:	Ref No.:
iR2270	iR4570-012
iR2870	(F1-T01-0M4-10037-01)
iR3530	
iR3570	Date:
iR4570	25-02-05

Subject:

Service Manual (Changing developing cylinder replacement procedure)

Reason:

The replacement procedure for the developing cylinder is changed.

The steps changed are as follows:

- Remove the developing cylinder without detaching the upper transfer guide.
- With the change above, detach the push-on rollers at both sides of the developing cylinder together with the developing cylinder from the developing assembly housing. Then, detach the push-on rollers from the developing assembly.

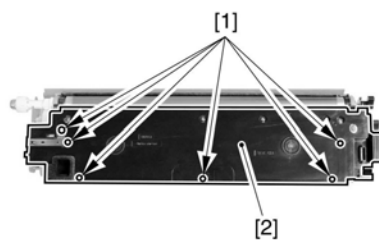
For your reference, a correct mounting position fails to be located afterward if the upper transfer guide is removed together with the developing cylinder, causing the following troubles:

- Smearred image at the leading edge of paper (1st face)
- Jam

The previous replacement procedure and the new replacement procedure are shown below.

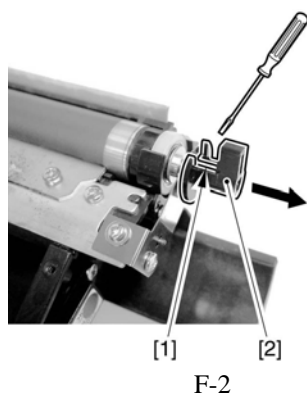
Previous replacement procedure

- 1) Remove the 6 screws [1], and detach the top cover [2].



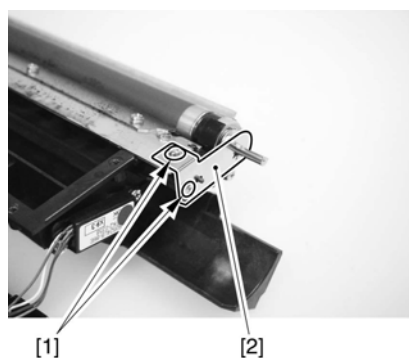
F-1

2) While freeing the claw [1], detach the sleeve front guide [2] in the direction of the arrow.



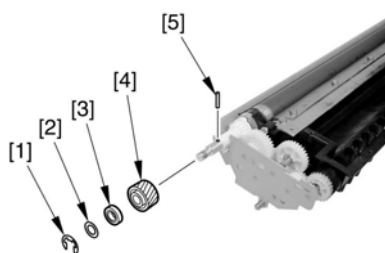
F-2

3) Remove the 2 screws [1], and detach the angle adjusting plate [2].



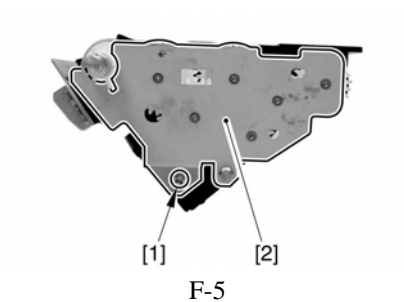
F-3

4) Remove the E-ring [1]; then, remove the washer [2], bearing [3], gear [4], and parallel pin [5].

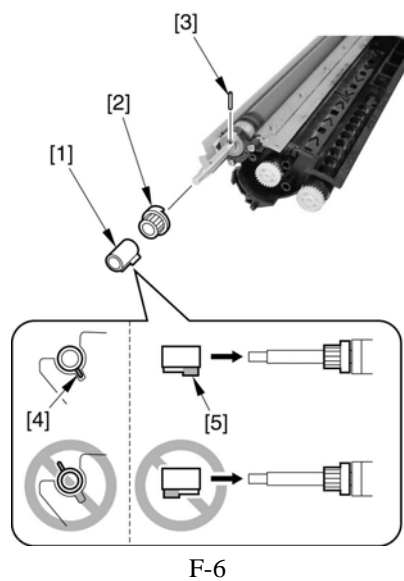


F-4

5) Remove the screw [1], and detach the gear unit [2].



6) Remove the sleeve bushing [1], gear [2], and parallel pin [3].

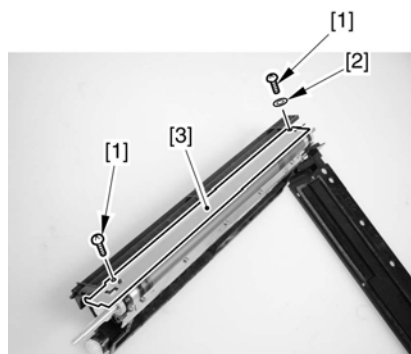


When fitting the sleeve bushing, be sure to take note of the following:

The protrusion [4] of the sleeve bushing must fit the recess in the gear unit side plate. (Otherwise, the protrusion can come into contact with the surface of the photosensitive drum.)

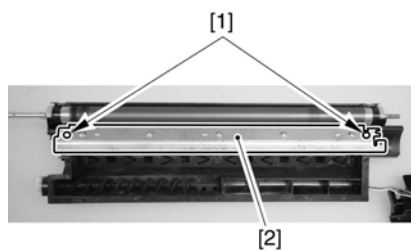
Pay attention to the orientation of the sleeve bushing. (Be sure that the longer protrusion [5] is on the developing cylinder side. Otherwise, you will not be able to fit the gear unit.)

7) Remove the 2 screws [1], and detach the washer [2]; then, detach the transfer upper guide [3].



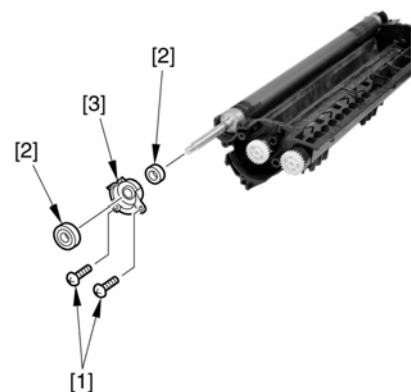
F-7

8) Remove the 2 screws [1], and detach the blade unit [2].



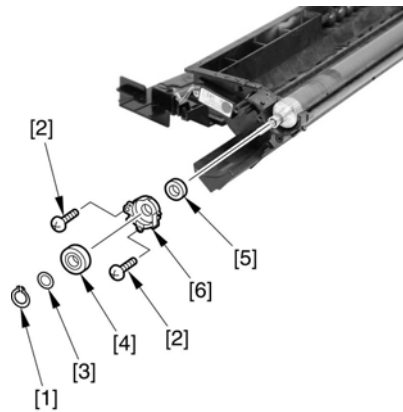
F-8

9) Remove the 2 screws [1]; then, remove the 2 bearings [2] and the sleeve holder (rear) [3].



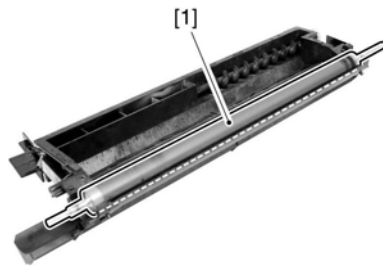
F-9

10) Remove the grip ring [1] and the screw [2]; then, remove the washer [3], bearings [4] [5], and sleeve holder (front) [6].



F-10

11) Remove the developing cylinder [1].



F-11



When detaching/attaching the developing cylinder from/to the developing unit, be sure of the following:

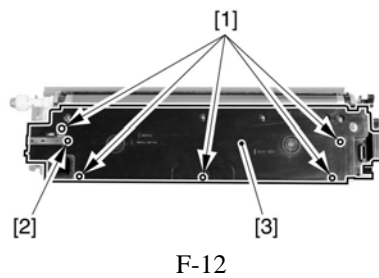
1. A good number of self-taping screws are used inside the developing unit. Be sure not to tighten these screws too tightly and damage the screw holes.
2. When removing the developing cylinder, be sure to remove the blade unit first.
3. When attaching the developing cylinder, be sure to fit it first to the developing unit.
4. Do not touch the developing cylinder or subject it to impact.

New replacement procedure

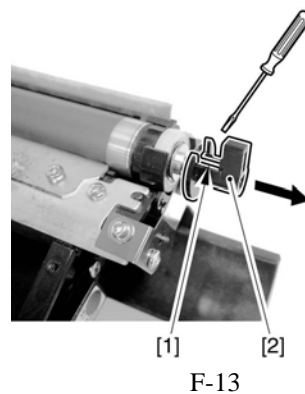
⚠ When you remove a developing cylinder from the developing assembly housing, be careful with the following points.

1. Lots of self-tapping screws are used in the developing unit. Be careful not to damage tapped holes by tightening self-tapping screws.
2. Remove the developing cylinder after detaching the blade unit with the developing blade.
3. Mount the developing cylinder on the developing assembly housing before attaching the blade unit.
4. Do not touch nor give a shock to the developing cylinder.

1) Unscrew 5 self-tapping screws [1] and a washer screw [2], and detach the top cover [3].



2) Slide out the sleeve front guide [2] in the direction of the arrow while releasing the claw [1].



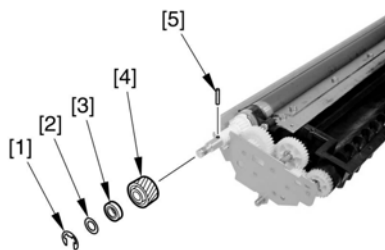
3) Unscrew a self-tapping screw [1] and a washer screw [2], and remove the angle adjustment plate [3].



[2] [1] [3]

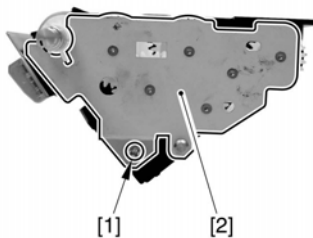
F-14

4) Remove the E-ring [1], a washer [2], a bearing [3], a gear [4], and a dowel pin [5].



F-15

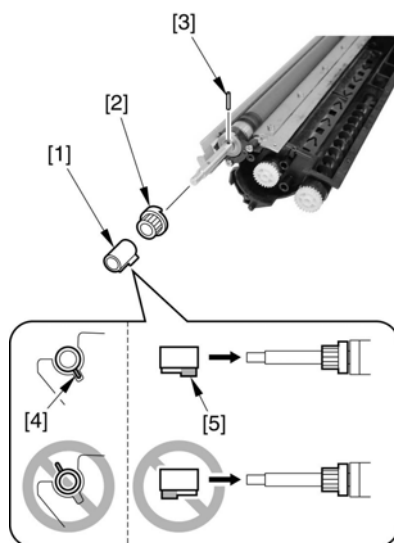
5) Unscrew a screw [1] and remove the gear unit [2].



[1] [2]

F-16

6) Remove a sleeve bushing [1], a gear [2], and a dowel pin [3].



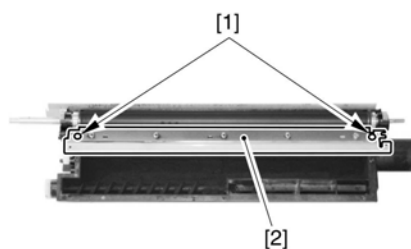
F-17

⚠ When mounting the sleeve bushing, be careful with the following points.

Match the projection [4] of the sleeve bushing to the depression of the gear unit side plate to mount. (If mounting in the wrong direction, the projection of the sleeve bushing might come into contact with the surface of the photosensitive drum.)

Pay attention to the mounting direction of the sleeve bushing. (Mount the sleeve bushing with longer projection on the developing cylinder. If the mounting direction is wrong, the gear unit cannot be attached.)

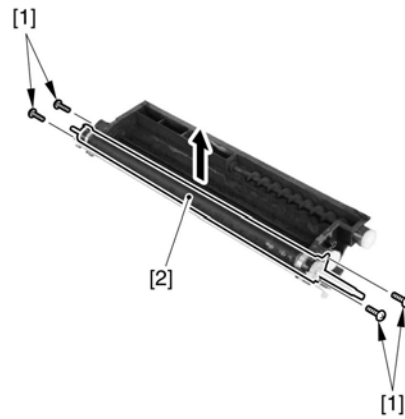
7) Unscrew 2 screws [1], and detach the blade unit [2].



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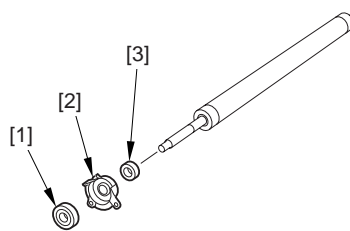
8) Unscrew 4 screws [1] which fix the sleeve holders (front/rear).

9) Push up the developing cylinder [2] and remove it along with a roller or others.



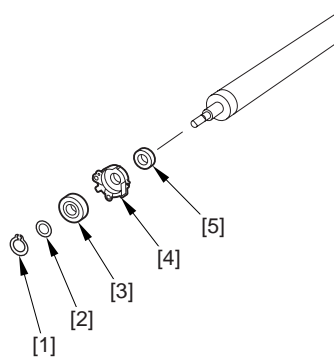
F-19

10) Remove a push-on roller [1], a sleeve holder [2], a bearing [3], and a sleeve holder (rear) [3] from the developing cylinder.



F-20

11) Remove a grip ring [1], a washer [2], a push-on roller [3], a sleeve holder (front) [4] and a bearing [5] from the developing cylinder.



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