Canon SERVICE BULLETIN COPIER

Issued by Canon Europa N.V.

MODEL: NP6116

No.: 1530-004 Rev. 2
(D6-12E-036-1)
DATE: 24.07.98

☐ Major quality issues ☐ Quality upgrade/production efficiency
☐ Field quality problems ■ Miscellaneous

SUBJECT: DIFFERENCES BETWEEN THE NP1530 AND NP6116

Outline

Accompanying the marketing of the NP6116, notification is made here of differences between the NP6116 and the NP1530.
This content will be incorporated into the next revision of the NP1530 Service Manual (FY8-13BY-010), Service Hand Book (FY8-2387-010) and Parts Catalog (FY8-31AX-010).

Details

1) The major differences between the NP1530 and NP6116 are listed below.
   - Accessory change
     The Stapler Sorter has been changed from the Stapler Sorter-B1 to the Stapler Sorter-D2. Other accessories are unchanged.
     The auto shut off mode is available.
   - ~~Modification to shape and color of external cover~~
   - Change in copy speed (see the table below)

Reduction ratio	Paper size	Cassette	Copies/min.
Paper size	A3 (297 × 420 mm)	A3	9
	A4 (210 × 297 mm)	A4	16
	A4R (297 × 210 mm)	A4R	12

   - Serial number change

     NP6116 (230V UK) : F13-4351 QBD 00001 and later
     NP6116 (230V Europe) : F13-4391 UCB 00001 and later

2) Differences in Parts Catalog

[Changed parts]

Fig./Key no.	Part no. (OCI part no. is in parenthesis)		Q'ty	Part name
	NP1530	NP6116		
101-12	FH0-0068-00P	FH7-6268-00P (992991F)	1	SWITCH, ROCKER
810-	FG1-7396-380	FG0-1214-00P (992880L)	1	FIXING ASSEMBLY 220V
	FG1-7397-390	FG0-1223-00P (992881H)	1	FIXING ASSEMBLY 240V
190-	FG2-3024-01P	FG0-1225-00P (992884C)	1	EXHAUST FAN ASSEMBLY
325-	FG2-2987-01P	FG0-1213-00P (992885D)	1	MULTI FEED TRAY ASSEMBLY
103-22	FF2-7417-00P	FG0-1208-00P (992898J)	1	LEVER, RELEASE
101-	FG0-1111-00P	FG0-1207-00P (992900Y)	1	KNOB, FIXING ASSEMBLY
100-13A	FC1-3552-00P	FA0-0658-00P (992959W)	1	LABEL, JAM BY-PASS
100-18	FA0-0186-00P	FA0-0671-00P (992961Q)	1	BLOCK, DOOR LOCK
100-13D	FC1-3550-00P	FA0-0678-00P (992986A)	1	LABEL, INSTRUCTION
325-1	FF2-5619-00P	FF0-0199-00P (992886E)	1	HANDLE
325-11	FF2-6702-00P	FF0-0198-00P (992887F)	1	COVER
325-9A	FC1-3553-00P	FA0-0654-00P (992892C)	1	LABEL
325-9	FF2-6700-00P	FF0-0197-00P (992894E)	1	GUIDE, PAPER
325-11A	FC1-3554-00P	FA0-0679-00P (992922H)	1	LABEL, PAPER SUPPLY
101-4	FC1-0928-00P	FA0-0648-00P (992984E)	1	MOUNT, MAIN SWITCH
130-17	FC1-5384-00P	FA0-0680-00P (992966M)	1	FRAME, RESISTOR
130-10	FC1-1009-00P	FA0-0660-00P (992967N)	1	SUPPORT, CONTROL PANEL, LEFT
130-9	FC1-1008-01P	FA0-0661-00P (992968X)	1	SUPPORT, CONTROL PANEL, CENTER
130-8	FC1-1007-00P	FA0-0662-00P (992969Y)	1	SUPPORT, CONTROL PANEL, RIGHT
130-3	FC1-5373-00P	FA0-0664-00P (992970V)	1	COVER, CONTROL CARD
130-11	FC1-5375-00P	FA0-0665-00P (992971J)	1	KEY TOP, NUMERIC
130-12	FC1-5381-00P	FA0-0666-00P (992972K)	1	FRAME, KEY TOP
130-13	FC1-5378-01P	FA0-0667-00P (992974M)	1	KEY TOP, PRINT/RESET
130-16	FC1-5383-00P	FA0-0668-00P (992975N)	1	KNOB, SLIDE
130-2	FC1-5374-00P	FA0-0669-00P (992976P)	1	LABEL, OPERATION KEY
102-37	WT2-0434-000	WT2-5300-000 (363855E)	4	CLIP
810-33	FA5-1958-000	FA0-0651-00P (992896G)	1	HANDLE
103-22B	FC1-5369-00P	FA0-0650-00P (9992897H)	1	LEVER, FEEDER ASSEMBLY RELEASE
190-	FG2-3024-01P	FG0-1225-00P (992884C)	1	EXHAUST FAN ASSEMBLY
190-1	FC1-0893-01P	FF2-0202-00P (992883B)	1	DUCT
100-7	FC1-0751-00P	FA0-0657-00P (992888Q)	1	TRAY, MANUAL FEED
100-6	FF0-0066-01P	FA0-0656-00P (992889R)	1	TRAY, MANUAL FEED
100-19	FA0-0157-00P	FA0-0652-00P (992895F)	1	TRAY, COPY
640-4	FA5-1764-000	FS5-2186-000 (362460M)	1	SPRING, TORSION
650-5	FA5-1765-000	FC1-7200-000 (362462B)	1	ROD, STIRRING 2
101-18	FC1-0983-00P	FA0-0873-00P (992980Q)	1	PLATE, MAGNET CATCH

Fig./Key no.	Part no. (OCI part no. is in parenthesis)		Q'ty	Part name
	NP1530	NP6116		
350-	FG2-2978-01P	FG0-1070-00P(362190F)	1	FEEDER ASSEMBLY
350-1	FA5-1891-000	FA0-0244-00P(362191U)	3	BELT FEEDER
350-4	FA5-1894-000	FA0-0245-00P(362192V)	1	SHAFT
350-5	FA5-1895-000	FA0-0247-00P(362194X)	3	PULLEY, DRIVE
350-6	FA5-1896-000	FA0-0246-00P(362193W)	3	PULLEY
350-7	FC1-0705-00P	FA0-0251-00P(362198B)	1	SEAL, DUCT
350-17	FA5-1908-000	FA0-0252-00P(362199C)	1	GUIDE, PAPER FEED
930-	FG2-4186-01P	FG2-9011-00P	1	DC CONTROLLER PCB ASSEMBLY

Added parts

Fig./Key no.	Part no. (OCI part no. is in parenthesis)	Q'ty	Part name
	NP6116		
350-8	FA0-0250-00P(362197S)	1	SUPPORT, PAPER TRANSPORTATION
350-11	FA0-0249-00P(362196Z)	1	GUIDE, AIR
350-14	FA0-0248-00P(362195Y)	1	GUIDE, PAPER
350-24	FA0-0277-00P(362371P)	1	CUSHION
350-501	XB1-2300-409	2	SCREW, MACH., TRUSS HEAD, M3x4
350-502	XB1-2400-609	9	SCREW, MACH., TRUSS HEAD, M4x6
350-503	XD3-2200-122	1	PIN, DOWEL
350-504	XD2-1100-642	5	RING, E
350-505	XD1-4200-402	1	WASHER, TOOTHED LOCK
350-506	XD2-1100-502	2	RING, E
350-507	XD3-2200-182	1	PIN, DOWEL
350-508	XD1-1108-225	2	SHIM
930-Q318	FG0-1229-00P(992768E)	1	ROM
930-Q303	FG2-9015-00P(994661V)	1	CPU

Deleted parts

Fig./Key no.	Part no. (OCI part no. is in parenthesis)	Q'ty	Part name
	NP1530		
350-3	FA5-1893-000	1	PLATE, ROLLER HOLD
350-8	FA5-1898-000	1	PLATE, MOUNT, FEED ASSEMBLY
350-11	FC1-1025-00P	1	DUCT
350-14	FA5-1905-000	16	HOLDER, PULLEY
350-15	FA5-1906-010	3	COUPLING
350-23	FH7-1529-000	1	FAN, DC24V
350-27	FA5-2160-000	1	CUSHION
350-26	FA5-1909-000	1	GUIDE, PAPER FEED, FRONT
350-28	WT2-0030-000	1	TIE, CABLE
350-30	XA9-0134-000	6	NUT, PUSH

<NP1530 Service Manual (FY8-13BY-010) modified contents>

Page	NP1530	NP6116
3-24	**G. Developing Assembly/Drum Cleaner** **1. Outlines** • • • • • When the amount of toner in the hopper is sufficient, the sensor output is “1”. When it is below the specified level, the output is “0”. The DC controller checks for 5 seconds after copying is completed if the TONER EMPTY signal (TEP) is being outputted. If the signal is outputted continuously for 5 seconds, it is regarded as “TONER OUT -First time”. If another TONER EMPTY signal is received in the same way after the next copying operation is completed, it is regarded as “TONER OUT -Second time” and the DC controller makes the ADD TONER indicator flash. The CT unit for this copier does not have a remaining toner sensor or waste toner sensor.	**G. Developing Assembly/Drum Cleaner** **1. Outlines** • • • • • When the amount of toner in the hopper is sufficient, the sensor output is “1”. When it is below the specified level, the output is “0”. The DC controller checks for 40 seconds during copying if the TONER EMPTY signal (TEP) is being outputted. If the signal is outputted continuously for 40 seconds, it is regarded as “TONER OUT” and the DC controller makes the ADD TONER indicator flash. The CT unit for this copier does not have a remaining toner sensor or waste toner sensor.

Page	NP1530
5-5	**C. Checking the Operation**

Step	Work	Remarks
1 • • • •	Turn the door switch ON using the door • • • •	 • • • •
8	Make a copy after the COPY START key has gone green. Wait for ten seconds or more after the drum has stopped, and make another copy.	Check the following: • No abnormal sound is heard. • The ADD TONER indicator flashes about five to ten seconds after the second copy operation is over.
9	Check that counter operaters properly.	Check that the reading has increased by two from the reading recorded in step 7.

NP6116

C. Checking the Operation

Step	Work	Remarks
1 • • • •	Turn the door switch ON using the door • • • •	 • • • •
8	After making any copies of the following. The COPY START key goes red. 1 making 7 continuous copies on A3 2 making 9 continuous copies on A4 3 making 5 single copies on A3 4 making 5 single copies on A4	Check the following: • No abnormal sound is heard. • The ADD TONER indicator starts to flash when the Copy key on the control panel turns red at the end of copying for any of following. 1 making 7 continuous copies on A3 2 making 9 continuous copies on A4 3 making 5 single copies on A3 4 making 5 single copies on A4
9	Check that counter operaters properly.	Check that the reading has increased by the number of copies made from the reading recorded in step 8.

<NP1530 Service Manual (FY8-13BY-010) added contents>

<table>
<tr><td>Page</td><td>NP6116</td></tr>
<tr><td>3-37</td><td>

VI. SERVICE MODE

A. Outline

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B. Using the Service Mode

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<Mode No.C18>
Press the AE key twice, and check ‘CEE’ is indicated on the control panel; then, press the SORT/GROUP key.

<Mode No.C21>
Change the setting using the NUMERIC keypad, and press the SORT/GROUP key.

8) Press the service switch (SW300) to leave the service mode.

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<tr><td>3-39a</td><td>

<table>
<tr><th>Mode No.</th><th>Display</th><th>Default Settings</th><th>Remarks</th></tr>
<tr><td rowspan="2">C21</td><td rowspan="2">Auto shut off mode setting</td><td>0</td><td rowspan="2">Selects/Deselects the auto shut off mode: 0, OFF; 1, ON
(The copier’s fixing unit and keyboard unless the ENERGY SAVER key will turn OFF if the copier is left alone for 30 minutes.)</td></tr>
<tr><td>0 or 1</td></tr>
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<NP1530 Service Hand Book(FY8-2387-010) modified contents>

Page: 4-15

NP1530

25. Indicator does not GO OFF when there is toner during black copying

Cause/Problem area	Procedure	Check	Result	Action
DC controller PCB	1	Does the indicator come back ON when the power switch is set OFF, then ON again?	YES	Replace the DC controller PCB.
DC controller PCB	2	Turn the power OFF, and disconnected J39. Turn the power ON, and press the COPY START key; 5 sec or moreafter the main motor has stopped, press the COPY START key once again. Does the indicator go ON when the main motor is at rest?	YES	Replace the DC controller PCB.
Stirring rod gear	3	Does the stirring rod inside the black developing assembly operate normally?	NO	Check the stirring rod and gear.
Black toner level sensor			YES	Replace the black toner level sensor(TS1).

NP6116

25. Indicator does not GO OFF when there is toner during black copying

Cause/Problem area	Procedure	Check	Result	Action
DC controller PCB	1	Does the indicator come back ON when the power switch is set OFF, then ON again?	YES	Replace the DC controller PCB.
DC controller PCB	2	Turn the power OFF, and disconnected J39. Turn the power ON, and press the COPY START key to make any copies of the following: 1 making 7 continuous copies on A3 2 making 9 continuous copies on A4 3 making 5 single copies on A3 4 making 5 single copies on A4 Press the COPY START key once again. Does the indicator go red when any copies of above has been made?	YES	Replace the DC controller PCB.
Stirring rod gear	3	Does the stirring rod inside the black developing assembly operate normally?	NO	Check the stirring rod and gear.
Black toner level sensor			YES	Replace the black toner level sensor(TS1).