

Overview

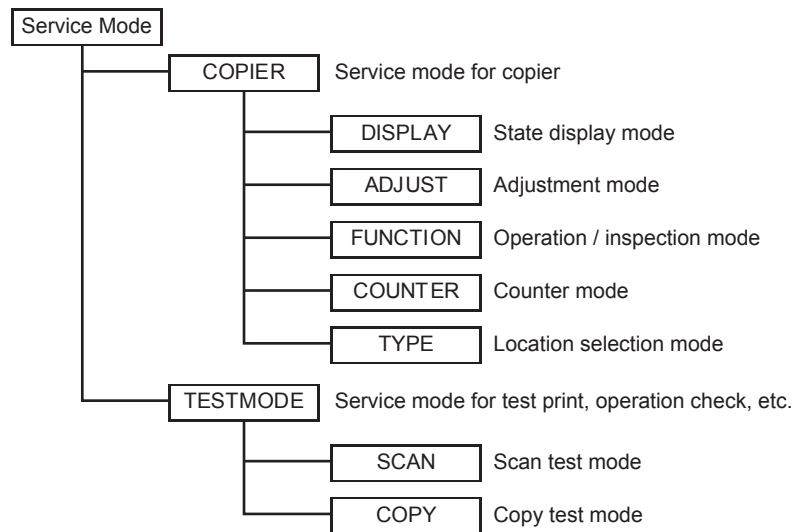
Preparation

The various service mode settings of this machine can be performed from a personal computer (PC).

Because this operation requires the dedicated software named USB Service Mode Tool (USM), install it in advance. The software supports the following OSs.

- Microsoft Windows XP (32/64 bit)
- Microsoft Windows Vista (32/64 bit)
- Microsoft Windows 7 (32/64 bit)

Service Mode Menu



F-8-1

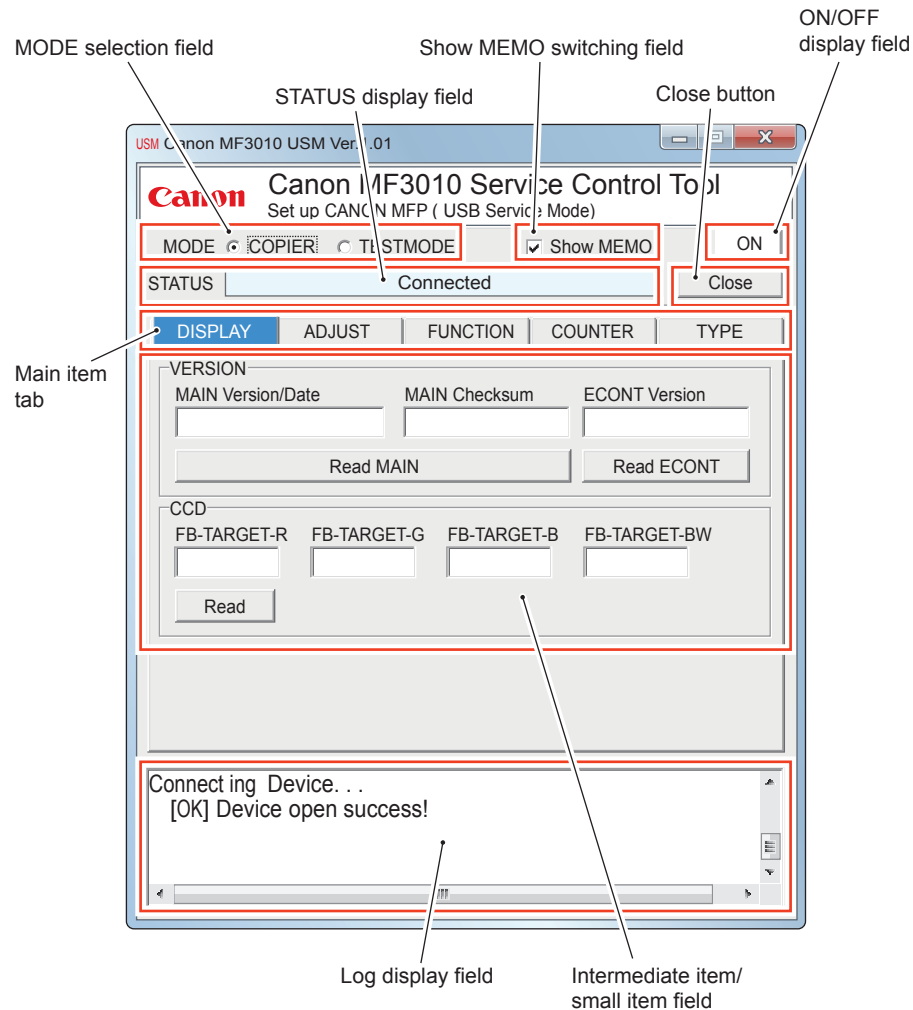
Entering Service Mode

Contact the sales company for the method to enter service mode.

Exiting Service Mode

Exit the service mode by turning OFF and then ON the power of the machine.

Screen Operation in Service Mode



MODE selection field	Switch between COPIER and TESTMODE.
Show MEMO switching field	When the checkbox is selected, logs are displayed at the bottom of the screen. When the checkbox is deselected, logs are hidden. (The contents of the logs are not deleted.)
ON/OFF display field	ON: The PC is connected to the machine. OFF: The PC is not connected to the machine.
STATUS display field	Display the state of communication with the machine.
Close button	Exit USM.
Main item tab	Select the main item.
Intermediate item/small item field	Perform and check various settings.
Log display field	Tasks are recorded in logs as they are processed by USM. All logs can be deleted by double-clicking inside the log display area. When exiting USM, all logs are deleted.

T-8-1

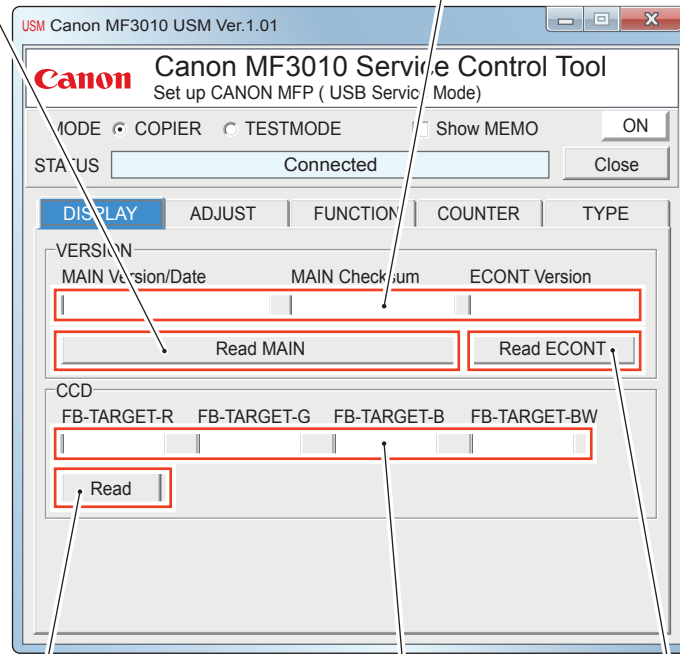
F-8-2

COPIER

DISPLAY

Read MAIN button

Display area



Read button

Display area

Read ECONT button

F-8-3

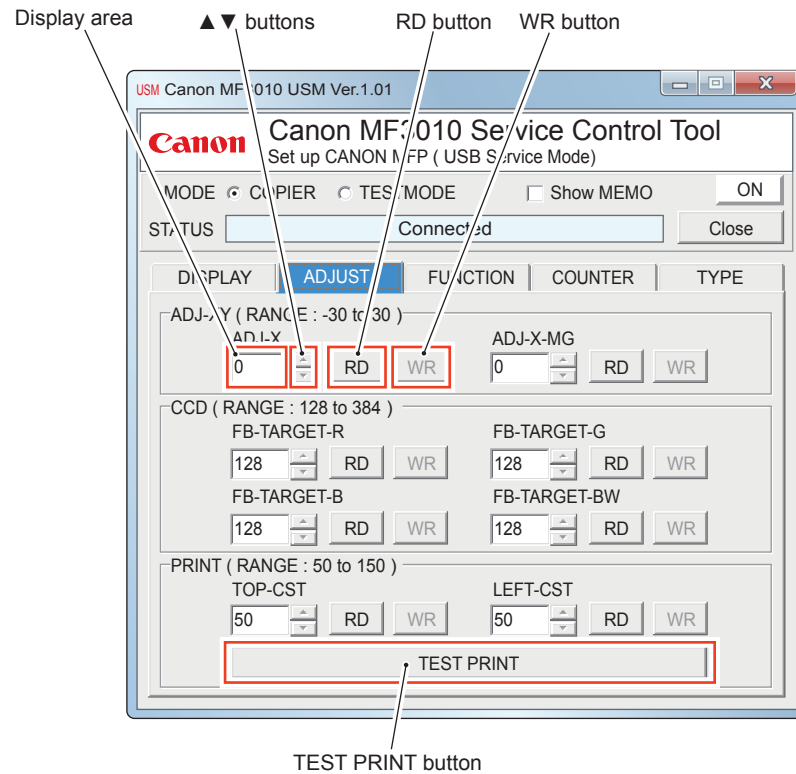
Read MAIN button	Update the values of MAIN Version/Date and MAIN Checksum.
Read ECONT button	Update the value of ECONT Version.
Read button	Update the values of FB-TARGET-R/G/B/BW.
Display area	Display each value.

T-8-2

COPIER>DISPLAY		
Intermediate item	Small Item	Description
VERSION	MAIN Version/Date	Display the version/date of Bootable (product program area)
	MAIN Checksum	Display the checksum of Bootable (product program area)
	ECONT Version	Display the ROM version of recording engine
CCD	FB-TARGET-R	Shading target value of RED at copyboard reading.
	FB-TARGET-G	Shading target value of GREEN at copyboard reading.
	FB-TARGET-B	Shading target value of BLUE at copyboard reading.
	FB-TARGET-BW	Shading target value of B&W at copyboard reading.

T-8-3

ADJUST



F-8-4

NOTE:

- Even if a value of a display area is changed, the change is not reflected until pressing the WR button.
- By pressing the TEST PRINT button, the following screen appears and the machine is waiting for output.

Wait till finished...

F-8-5

RD button	Obtain the current value of each setting.
WR button	Send the value of each display area to the machine. Operation becomes possible by pressing the corresponding RD button.
▲▼ buttons	Increase or decrease a value of each display area. Operation becomes possible by pressing the corresponding RD button.
Display area	Display each value. Apart from using the ▲▼ buttons, you can also enter a value directly from the keyboard.
TEST PRINT button	Perform the test print using values set in TOP-CST and LEFT-CST. Before performing the test print, be sure to load A4 or LTR paper.

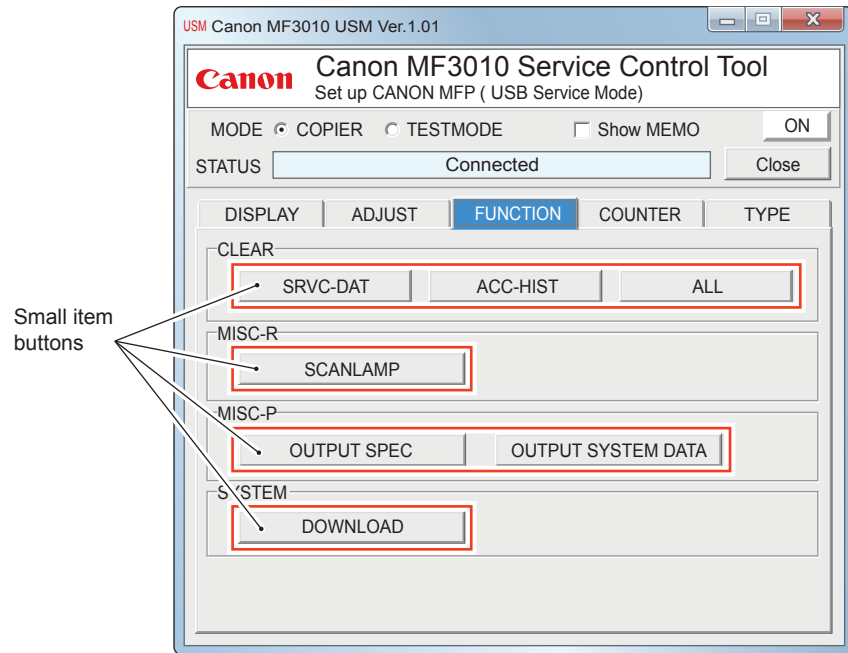
T-8-4

COPIER>ADJUST		
Intermediate item	Small Item	Description
ADJ-XY	ADJ-X	Adjustment value of image reading start position (vertical scanning direction) (X direction) [Use case] When the reading position of vertical scanning direction at fixed reading is incorrect [Adjustment] Reduce the setting value when non-image width is larger than the standard value. Increase the setting value when area outside the original is copied. As the setting value is incremented by 1, the image reading start position moves toward the trailing edge by 0.1 mm. Setting range: -30 to 30 [Value after RAM clearing: 0]
	ADJ-X-MG	Fine adjustment (unit: 0.1%) of magnification ratio in the vertical scanning direction at copyboard reading. +/- 3% [Use case] When image on copy output sheet is larger or smaller than its on the original [Adjustment] Make adjustment by comparing the original and the copy output sheet. Increase the value when the output sheet is small. Decrease the value when the output sheet is large. Setting range: -30 to 30 [Factory default settings/Value after RAM clearing: 0] [Caution] This adjustment is targeted to adjust the image position on copy output. This may affect the SCAN image.
CCD	FB-TARGET-R	Shading target value of RED at copyboard reading. Setting range: 128 to 384 [Factory default value: varies according to each machine] [Value after RAM clearing: 290]
	FB-TARGET-G	Shading target value of GREEN at copyboard reading. Setting range: 128 to 384 [Factory default value: varies according to each machine] [Value after RAM clearing: 284]
	FB-TARGET-B	Shading target value of BLUE at copyboard reading. Setting range: 128 to 384 [Factory default value: varies according to each machine] [Value after RAM clearing: 278]
	FB-TARGET-BW	Shading target value of B&W at copyboard reading. Setting range: 128 to 384 [Factory default value: varies according to each machine] [Value after RAM clearing: 301]

COPIER>ADJUST		
Intermediate item	Small Item	Description
PRINT	TOP-CST	Leading edge margin at cassette pickup Setting range: 50 to 150 [Factory default value/Value after RAM clearing: 100] [Amount of change per unit: 0.1 mm]
	LEFT-CST	Left margin at cassette pickup Setting range: 50 to 150 [Factory default value/Value after RAM clearing: 100] [Amount of change per unit: 0.1 mm]

T-8-5

FUNCTION



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COPIER>FUNCTION		
Intermediate item	Small Item	Description
CLEAR	SRVC-DAT	Clear SERVICE DATA. User data is not cleared. Exercise caution as data is cleared as soon as you press the button.
	ACC-HIST	Not used
	ALL	The following items are cleared. USER DATA SERVICE DATA JOB ID Logs Clear date Also, USER DATA and SERVICE DATA are initialized to the default values of each location. Counter information is not cleared. Exercise caution as data is cleared as soon as you press the button.
MISC-R	SCANLAMP	Execute Scanning Lamp activation operation. Light up CIS LEDs in the following sequence: red -> green -> blue -> white.
MISC-P	OUTPUT SPEC	Output History Print in user mode.
	OUTPUT SYSTEM DATA	Output DISPLAY, ADJUST, and COUNTER in the COPIER of SSSW.
SYSTEM	DOWNLOAD	Switch to download mode.

T-8-7

Small item buttons	Execute function of each small item. Before performing MISC-P > OUTPUT SPEC, OUTPUT SYSTEM DATA, be sure to load A4 or LTR paper.
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T-8-6

NOTE:

By pressing the button of a small item below the intermediate item MISC-P, the following screen appears and this machine is waiting for output.

Wait till finished...

F-8-7

OUTPUT SPEC output example

P.0001

```

*****
***          HISTORY PRINT          ***
***          USER MODE             ***
*****

-- FIRMWARE VERSION --
*SCNT: 02.06
*ECNT: 00.10

-- USB SERIAL NUMBER --
* 0112G000000E

-- DESTINATION --
* USA

```

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- FIRMWARE VERSION: Firmware version
SCNT: Main Controller version
ECNT: Engine Controller version
- USB SERIAL NUMBER: Serial number of a USB port of this machine
- DESTINATION: Location name that has been set up

OUTPUT SYSTEM DATA output example

P.0001

```

*****
***          SYSTEM DATA LIST      ***
*****

* COPIER
[1] DISPLAY
VERSION
MAIN      :                02.06
ECONT    :                00.10
CCD
FB-TARGET-R :                290
FB-TARGET-G :                284
FB-TARGET-B :                278
FB-TARGET-BW:                301

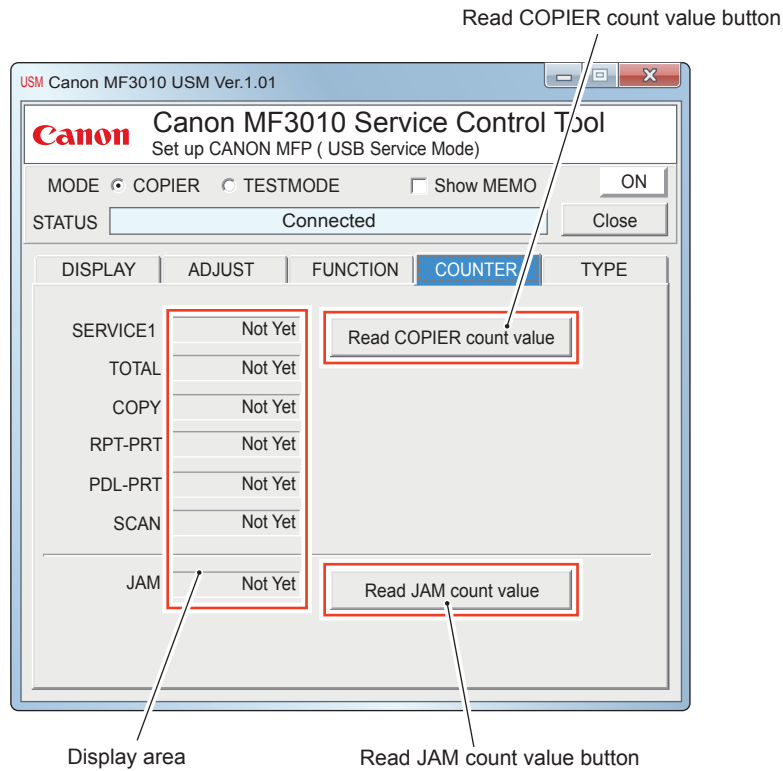
[2] ASJUST
ADJ-XY
ADJ-X     :                0
ADJ-X-MG  :                0
CCD
FB-TARGET-R :                290
FB-TARGET-G :                284
FB-TARGET-B :                278
FB-TARGET-BW:                301
PRINT
TOP-CST   :                100
LEFT-CST  :                100

[3] COUNTER
TOTAL
SERVICE1 :                0
TTL       :                0
COPY      :                0
RPT-PRT   :                0
PDL-PRT   :                0
SCAN      :                14
JAM
TOTAL     :                0

```

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COUNTER



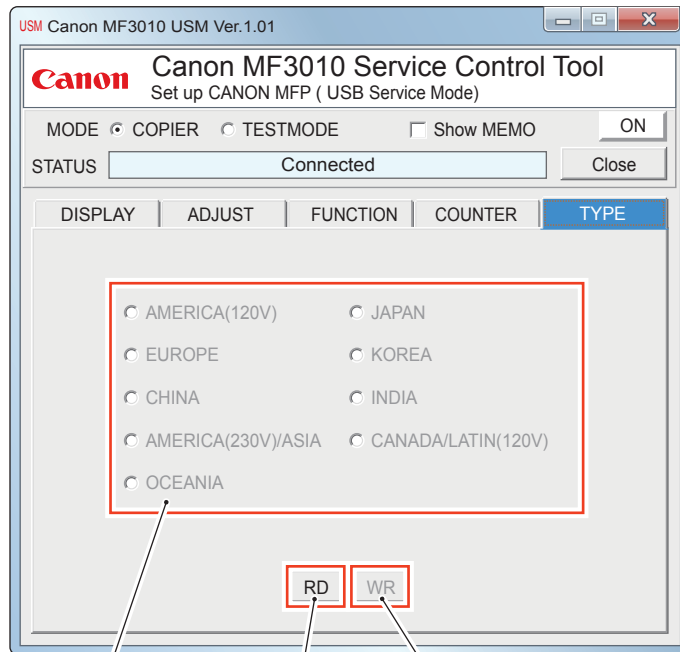
COPIER>COUNTER>TOTAL		
Display/setting/adjustment range: 0 to 999. Returns to 0 when value exceeds 999.		
Intermediate item	Small Item	Description
TOTAL	SERVICE1	Service-purposed total counter 1 Counter is advanced when a paper is delivered outside the printer (regardless of large size or small size).
	TTL	Total counter (copy + printer + RPT-PRT)
	COPY	Total copy counter Counter is advanced when a paper is delivered outside the machine after execution of copy operation.
	RPT-PRT	Report print counter Counter is advanced at report printing, and when a paper is delivered outside the machine. Blank paper is also counted. Counter is advanced by 1 regardless of large or small size.
	PDL-PRT	PDL print counter Counter is advanced at PDL printing, and when a paper is delivered outside the machine. Blank paper is also counted. Counter is advanced by 1 regardless of large or small size.
	SCAN	Scan counter Count up the number of scan operations when the scan operation is complete. Counter is advanced by 1 regardless of large or small size.
JAM	TOTAL	Total jam counter

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F-8-10

Read COPIER count value button	Obtain each counter's value.
Read JAM count value button	Obtain the JAM counter value.
Display area	Display each value.

T-8-8

Location selection field

RD button

WR button

F-8-11

RD button	Obtain the location that has been set up.
WR button	Send the settings of the selected locations to the machine. Operation becomes possible by pressing the RD button.
Location selection field	Select location group. Operation becomes possible by pressing the RD button.

T-8-10

NOTE:

Even if a selected location is changed, the change is not reflected until pressing the WR button.

Caution: When Replacing the Main Controller PCB

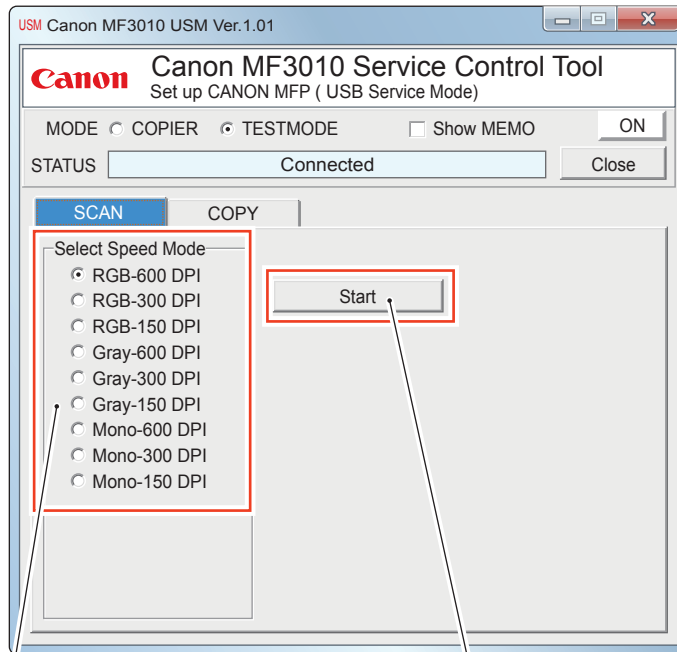
- 1) Replace the Main Controller PCB.
- 2) Connect the PC to this machine and start USM.
- 3) Display COPIER > TYPE.
- 4) Press the RD button, select a location, and then press the WR button.
- 5) Press the RD button again, and check that the correct location has been set up.

COPIER>TYPE	
Description	
Set the location group (report language type, basic paper size). When replacing the Main Controller PCB, this item must be set. [Selection items] AMERICA(120V), CANADA/LATIN(120V), JAPAN, EUROPE, AMERICA(230V)/ASIA, OCEANIA, INDIA, KOREA, CHINA	

T-8-11

TESTMODE

SCAN



Select Speed Mode field

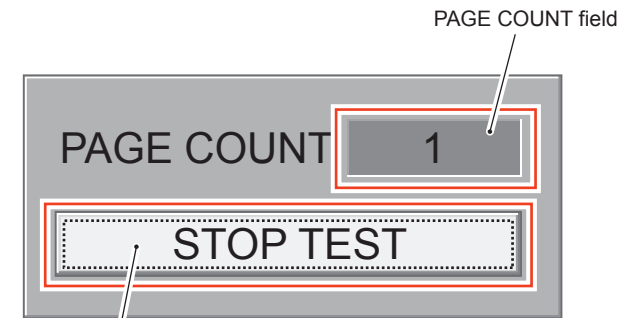
Start button

F-8-12

Select Speed Mode field	Select a speed mode for testing.
Start button	Start test.

T-8-12

Test in progress screen



PAGE COUNT field

STOP TEST button

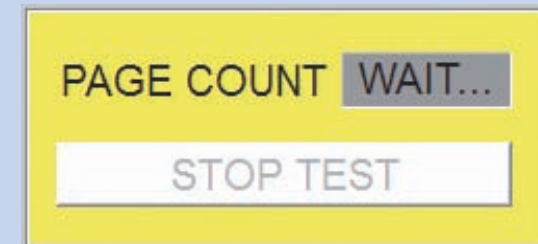
F-8-13

PAGE COUNT field	Display the number of reading operation.
STOP TEST button	Stop the test. The test is repeated until the STOP TEST button is pressed. The test continues until the job that was executed when the STOP TEST button was pressed ends.

T-8-13

NOTE:

By pressing the STOP TEST button, the following screen appears and the machine is waiting for completion of the test.



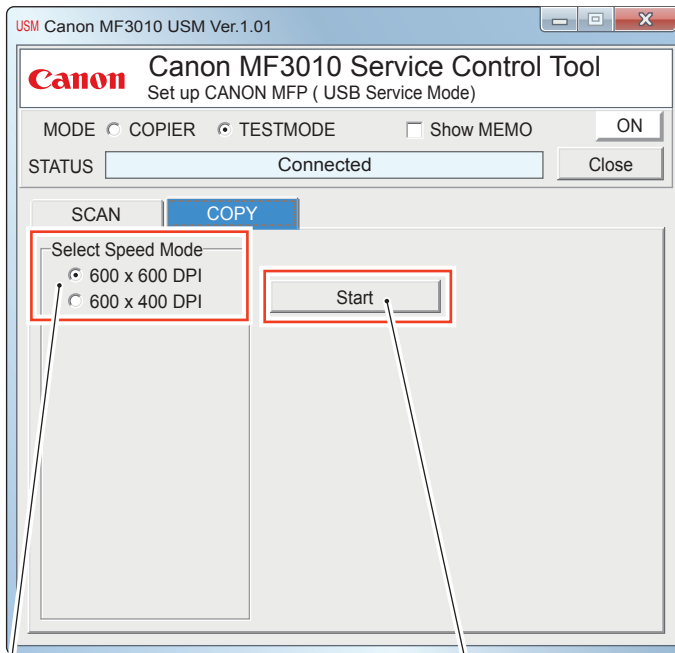
F-8-14

TESTMODE>SCAN

Description

Reading speed test
Perform the driving test of the Read Motor (M3) using the specified speed mode.
[Selection items]
RGB-600 DPI, RGB-300 DPI, RGB-150 DPI, Gray-600 DPI, Gray-300 DPI, Gray-150 DPI, Mono-600 DPI, Mono-300 DPI, Mono-150 DPI

T-8-14



Select Speed Mode field

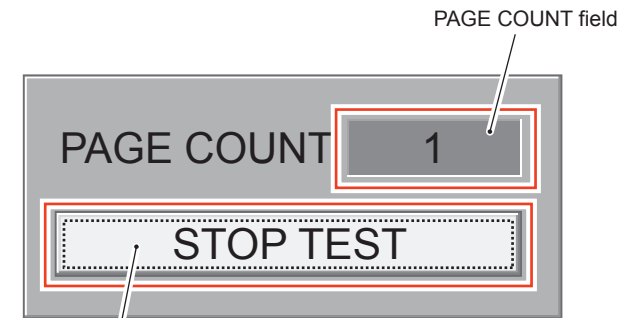
Start button

F-8-15

Select Speed Mode field	Select a speed mode for testing.
Start button	Start test. Before starting the test, be sure to load A4 or LTR paper.

T-8-15

Test in progress screen



STOP TEST button

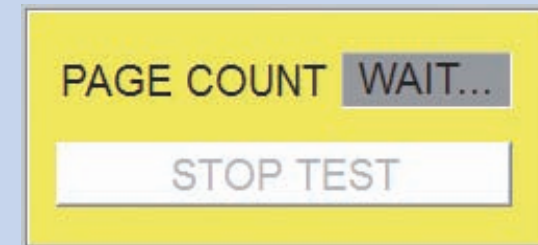
F-8-16

PAGE COUNT field	Display the number of copy operation.
STOP TEST button	Stop the test. The test is repeated until the STOP TEST button is pressed. The test continues until the job that was executed when the STOP TEST button was pressed ends.

T-8-16

NOTE:

By pressing the STOP TEST button, the following screen appears and the machine is waiting for completion of the test.



F-8-17

TESTMODE>COPY
Description
Copy operation test Perform the driving test of Feed Motor (M1) using the specified speed. [Selection items] 600 x 600 DPI, 600 x 400 DPI

T-8-17