Canon

Service Information

Model : GP605 Series

Location : ADF CONTROLLER PCB

Subject : MODIFICATION OF THE PROGRAM IN THE ROM (UPGRADED TO VER. "9")

Reason : To improve the performance, the program in the ROM is modified, and the ROM is upgraded to Ver. "9".

Details : [Modifications made with Ver. 9 ROM]

· Improvements in performance

No.	Item	Modifications/ Figures in the parentheses are jam codes.	
1	Jam codes become more detailed.	Pick-up stationary jam 1 (31)	When the front registration sensor does not detect an original after an original is fed.
		Pick-up stationary jam 2 (32)	When an original is stationed at the registration roller after an original is fed.
		Pre-reversal pick-up stationary jam 1 (56)	When the front reversal sensor detects an original after the leading edge of an original is detected and the specified length is fed.
		Pre-reversal pick-up stationary jam 2 (57)	When the reversal sensor detects an original after the front reversal sensor detects the trailing edge of an original and the specified length is fed.
		Error in the position of the leading edge of image (EA)	This is detected only in case of the slide reading mode. In case of reading from the copyboard glass, the machine feeds originals one by one and keeps operating.
		Program (FF)	Divided into (C0) to (DF).
2	Jam codes for the first sheet are differentiated.	Skew at the trailing edge after pick-up (11)	1st sheet (1A) / 2nd sheet and after (11)
		Skew at the trailing edge after reversal pick-up (15)	1st sheet (1B) / 2nd sheet and after (15)
		Skew at the leading edge after pick-up (24)	1st sheet (2A) / 2nd sheet and after (24)
		Stationary jam at pick-up 1 (31)	1st sheet (3A) / 2nd sheet and after (31)
		Stationary jam at pick-up 2 (32)	1st sheet (3B) / 2nd sheet and after (32)

		Error in the position of the leading edge of image (EA)	1st sheet (EB) / 2nd sheet and after (EA)	
3	The jam detect timing is changed.	Increase the jam margin for the error in the position of the leading edge of image (EA) by 20mm, which means the margin is changed from 10mm to 30mm. Increase the jam margin for the separation delay (22) and separation alarm by 50mm, so the specified length of feeding is changed from 171mm to 221mm.		
4	An adjustment mode for threshold level of the document end sensor becomes available.	With the test mode in DF, you can change the threshold level with which the document end sensor determines whether or not an original exists against the input A/D. Its changeable range is from 1.3V to 2.7V, and you can change the level in 0.2 V increment. An adjusted value is displayed on the 7th segment LED of the ADF controller PCB.		

Threshold level (V)	Display on the 7 segment LED	
1.3 (lower limit)	43	Enter "A" ⇨ "-" ⇨ "4" ⇨ "3".
1.5	4D	Enter "A" ⇨ "-" ⇨ "4" ⇨ "D".
1.7	57	Enter "A" ⇨ "-" ⇨ "5" ⇨ "7".
1.9	61	Enter "A" ⇨ "-" ⇨ "6" ⇨ "1".
2.1	6B	Enter "A" ⇨ "-" ⇨ "6" ⇨ "B".
2.3	75	Enter "A" ⇨ "-" ⇨ "7" ⇨ "5".
2.5 (default)	7F	Enter "A" ⇨ "-" ⇨ "7" ⇨ "F".
2.7 (upper limit)	89	Enter "A" ⇨ "-" ⇨ "8" ⇨ "9".

It lights if the document end sensor detects an original, and it flashes on and off if it detects no original.

Servicing Work :

How to upgrade ROM version of the ADF for the GP605

1. Adjusting the sensor

   Referring to "3. Adjusting the Sensor and the Delivery Motor" (p. 5-26) of "B. Making Adjustments When Replacing Major Parts" in Chapter 5 TROUBLESHOOTING in the Service Manual (FY8-13FE-000), take necessary actions.

2. Adjusting the threshold level for the document end sensor (S7)

   1) Turn "ON" 1, 2, 3, 6 of the DIPSW (SW1) on the ADF controller PCB, press PUSHSW (SW2), and enter the adjustment mode. The current level is displayed on the 7th segment LED. After the ROM is replaced, the default value 2.5V is automatically set. This value should be verified. ("7F" is displayed.)

   2) As you press PUSHSW (SW4) while the document end sensor (S7) does not detect paper, lower the threshold level. At the point where the sensor (S7) detects paper (i.e., the adjustment value display is changed from flashing to lighting), press PUSHSW (SW3) three times (which means increase the threshold level by 0.6V from the adjusted value.) 2.5V ("7F" in display) is the upper limit of the adjustable value.

   3) In case the sensor does not detect even if the threshold level reaches the lower limit 1.3V ("43" in display), press PUSHSW (SW3) twice and make it 1.7V ("57" in display).

   4) Press PUSHSW (SW2), backup the adjusted value, and finish the adjustment mode.

   <Caution>

   Adjusting the threshold level for the document end sensor (S7) is not mandatory but recommended because the level varies according to the environment where a copier is installed.

In case of the environment where the document end sensor is exposed to sunbeam, there is a possibility that an erroneous detection may occur, so do not adjust the threshold level for the document end sensor.

Service Parts :

No.		Description	Part number	Q'ty	Stock	Inter-change-ability	P.C. ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ Stock date
1	Old	IC CY27C010-70WC, CMOS	FF3-3356-060	1→0	C	No Yes	P90
	New	IC CY27C010-70WC, CMOS	FF3-3356-090	0→1	D		
2	Old	ADF CONTROLLER PCB ASSEMBLY	FG2-9358-000	1→0	C	No Yes	P90
	New	ADF CONTROLLER PCB ASSEMBLY	FG2-9358-080	0→1	D		

Affected machines:

ROM Ver. 9

Serial No. of ADF YF01333 and later

       GY08893 and later

Serial No. of main unit F13-5631 (without Ver. 9 ROM installed.)

         F13-5638 NNT11423 and later

         F13-5641 PLP00614 and later

         F13-5661 RLE00398 and later