




# TB-K134G-004

## Technical Bulletin

<b>ACTION REQUIRED</b>	For Reference	
	Production Change	
	Order as Required	

Model: KIP 71 G Series

RE: Printer Firmware FWU-03

Date: August 1, 2023

New version firmware is available for the KIP 71 G Series compatible with KIP System K Software Version 3.1 and higher.

	<b>71G-FWU-3 For 6D version</b>	<b>71G-FWU-3-4D For 4D version</b>
Firmware (CPU)	K134FX18.00A (Checksum: 10457d7)	K134FX18.00A_4D (Checksum: 104246b)
Hardware (FPGA)	K134HX05.00A (Checksum: BADEDF)	K134HX05.00A_4D (Checksum: BADEDF)

### Notes:

- 1) View the current version on the printer in the Maintenance GUI by selecting "Version Info" from the main menu to confirm the version needed. (4D or 6D).
- 2) Firmware & BUD data for the 4D & 6D models are not interchangeable.

The following pages details the changes in this firmware version.

## 1. Changing the Toner Supply Control

To stabilize image quality, Toner Supply Control are changed as follows.

Toner Supply Control		
Conditions for supplying toner	Current	When the Toner Sensor (Input Check #00107) is "L" (toner is not detected.) continuously for more than 15 seconds, the toner is supplied for 10 seconds.
	After Change	<p>The Toner Sensor (Input Check #00107) is "L" (toner is not detected.) for more than 12 seconds (Please see NOTE 1.) in cumulation within the sampling time (22 seconds (Please see NOTE 1.)) for the Toner Supply Determination, the toner is supplied for 10 seconds (Please see NOTE 2.).</p> <p>NOTE 1 : It can be changed by the new BUDs (#827 and #828). (Using the default value is recommended.)</p> <p>NOTE 2 : It can be changed by the BUD #051. (Using the default value is recommended.)</p>
Conditions for "Toner Empty"	Current	When the Toner Sensor is "L" (toner is not detected.) continuously for 60 seconds or longer, it is determined as "Toner Empty" and the printing is stopped.
	After Change	<p>When the Toner Supply Cycle continuously repeats 4 times (Please see NOTE 3.), it is determined "Toner Empty" and the printing is stopped.</p> <p>Numbers of repetition of Toner Supply Cycle</p> <p>When no toner is supplied (The Toner Supply Cycle is not made.), the numbers of repetition of Toner Supply Cycle is reset.</p> <p>A : Sampling Time (Setting value of BUD#827)</p> <p>B : Toner Supply by the Toner Supply Determination</p> <p>Toner Empty Determination (The printing is stopped.)</p> <p>NOTE 3 : It can be changed by the new BUD (#829). (Using the default value is recommended.)</p>

(1) Adding BUDs (#827, #828)

BUD #827 (Sampling Time for the Toner Supply Determination (Supply Cycle))

It specifies the sampling time for the Toner Supply Determination (How much time the status of Toner Sensor is monitored).

Default	Setting Range		Unit
	Min.	Max.	
22	1	31	seconds

The default value (22) is recommended.

**! NOTE**

The setting value of BUD #827 should be larger than the following setting values. Otherwise, the Toner Supply Control cannot be performed correctly.

- BUD #828 (Toner Supply Determination (Supply Start 2))
- BUD #051 (Toner Supply Motor ON Time (Toner Supply))

BUD #828 (Toner Supply Timing (Supply Start 2))

It specifies the timing for supplying toner.

Default	Setting Range		Unit
	Min.	Max.	
12	1	20	seconds

For the default value (12), the toner is supplied when the Toner Sensor is “L” for more than 12 seconds in cumulation within the sampling time specified by BUD #827.

The default value (12) is recommended.

**! NOTE**

The setting value of BUD#828 should be smaller than the following setting value. Otherwise, the Toner Supply Control cannot be performed correctly.

- BUD #827 (Sampling Time for the Toner Supply Determination (Supply Cycle))

BUD #829 (Toner Empty Determination (Toner Empty))

It specifies the timing for making the Toner Empty Determination.

Default	Setting Range		Unit
	Min.	Max.	
4	1	7	Number of times

It is determined “Toner Empty” when the Toner Supply Cycle (when the Toner Sensor is “L” for more than the time specified by BUD #828 within the sampling time specified by BUD #827, the toner is supplied.) continuously repeats for the specified number of times.

BUD#829 specifies the number of times of continuous repetition of Toner Supply Cycle to determine “Toner Empty”. For the default value (4), it is determined “Toner Empty” when the Toner Supply Cycle continuously repeats 4 times and the printing is stopped. The default value (4) is recommended.

(2) Stopping the use of BUD #050 (Reaction Time of Toner Supply Motor (Supply Start))

The use of this BUD is stopped as it is for the current Toner Supply Control.