

August 30, 2018

FC8000 Series

Version 3.50

Release date: August 29, 2018

- Fixed problem
 1. When the first vector line length is longer than about 230 mm, the Initial blade control did not perform.

This slight deformation occurs at beginning part of the line. The starting position of the line may not match the position at the end of the line.
This problem occurs from the version 3.40.
If the version 3.40 was installed already, update to this version.

Version 3.40

Release date: July 25, 2018

- Fixed problem
 1. When data was sent via the LAN, the FC8000 was locked when the “Feed the media and then set the media” is displaying.
 2. The other keys did not work when the CONDITION key was pressed continuously.
 3. The cutting speed becomes slow when the straight line is cutting at the segment registration mark mode.
 4. The origin position was shifted when the origin key was pressed several times.
 5. The Cutting Master 4 could not get serial number when the command setting is AUTO.
 6. Continuously beeped when the “Move TOOL position then ENTER” is displaying.
 7. The error is displayed when the 20 mm reversed color of segment registration mark type 1 is detecting. It will stop before last one registration mark.
 8. The plotter locked up when the PUSE key was pressed after the 1st registration mark was searching.
 9. The FC8000 was locked when the V2.1.211 of CM3 is connecting without operation several hours.
 10. The NEC font (Non Standard Japanese Kanji characters) could not print.
 11. The FC8000 was released after the cross cutting was performed when the

CM3 is connecting by the LAN ports.

12. The CM3 was not released in following condition when the FC8600 was connecting via the USB port.
 1. The setup clear was performed.
 2. The unit length was set to Inch unit.
 3. The condition setting of tool was set to CB09 from PEN.
 13. The tool position was shifted in the following condition.
 1. The AP mode was set.
 2. The tool number was set to tool 2.
 3. When the cross cutting is specified by the driver setting.
 14. The condition settings were not changed when in the copy mode of FC8000.
 15. The cutting job could not cancel when the registration mark scanning was failed. (This symptom occurs when only using the Cutting Master 3.)
 16. The registration mark could not rescan the registration mark when the registration mark scanning was failed. (This symptom occurs when only using the Cutting Master 3.)
 17. The E05005 error occurred when the cross cutting is performing with the following setting of perforation.
 18. The pause function was performed when waiting the pressing of enter key.
- Modification
 1. The initial blade direction was improved to be same direction for the first cutting.
 2. The end of arc processing was improved.

Version 3.30

Release date: November 27, 2013

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- Fixed problem
 1. The setting of magnification changed the size of self-test.
 2. The LED of registration mark sensor was not turned off when after the registration detecting was canceled.
 3. The Y belt running test and the Cross cut test could not perform when the command setting is "AUTO".
 4. Sometimes the FC8000 hung up when the position moved by the controller when in the AUTO command mode.
 5. Sometimes the status command (ESC.C1:) was not responded correctly when the media select menu is displaying.
 6. The pre-feed timing was not same with each unit.

7. The tool setting of condition 2 was changed to "PEN" when after the spacing between the Tool 1 and Tool 2 is adjusted on the 2 pens model. (2nd Pen Model)
8. The memory area was broken when the direct command "ESC.C31" is received during copying mode.
9. The WARNING Error did not display when after the command error occurred.
10. Sometimes the FC8000 hung up when the cutting process was canceled.
11. The response of "ESC.C1:" was not correct.
12. The last segment of data did not cut to correct position when in the following setting.
Command Mode is AUTO, Connected at LAN, The data send by the CM2/CM3
13. The LAN connection was disconnected when the plotter during the pause at the command mode was set to AUTO.
14. The FC8000 was locked when adjusting the tool spacing for 1st pen and 3rd pen. (2nd Pen Model)
15. The pre-feed was performed immediately when the setting of pre-feed was selected in the menu.
16. The response of "TC2009.5" was not correct.
17. The origin key did not work when the push roller detection is setting to disable.
18. The start position of cutting was incorrect after the tool position was moved after the relative movement command received when the line type was perforation.
19. The cutting condition was not renewed when the sorting is ON.
20. The plotter did not wait when the pen exchange is performed by the CM3/GS. The TC38 command was added.
21. The value of offset was not added when the step pass is set other than "0".
22. The cutting area was incorrect when the push roller sensor is sets to disable.
23. The carriage hit to the cross cutter bar in the following condition.
The distance adjustment of condition 1 is set to +2.00%. The distance adjustment of condition 2 is set OFF and the tool number is set to 2.
The media load by the condition 1. The condition is selected to the condition 2.
24. The online status was displayed when the registration marks are scanning.
25. The copy was cleared when after the cam lever was used during connecting the Graphtec Studio.

26. The starting position of 2nd page was wrong when the segment cutting is ON.
27. The NEC font (Non Standard Japanese Kanji characters) could not print.

- Modification

1. The origin is able to move by using the position keys when in the Panel Cutting mode.
2. The segment registration mark of panel cutting function was added.

Version 3.20

Release date: May 8, 2013

- Fixed problem

1. The multi registration function was not worked correctly.
2. The cam sensor was not detecting during adjusting the RMS sensor level.
3. The "ARMS POINT 2" was displayed even if reading the ARMS2 to ARMS 4 in the manual registration function.
4. The plotter returned to the "READY" mode when the TYPE 1 or TYPE 2 is selected in the registration sensor test menu.
5. The plotter locked up when the menu key pressed when the distance of registration mark points are displaying.
6. The registration mark size was reset when the registration mark size is setting in the menu.
7. The registration mark sensor position moved to the pen position when the "Interface clear" command is receive in the GP-GL mode.
8. Sometimes the plotter locked up when the command mode is "AUTO".
9. The page size did not change correctly when the cam lever is open.
10. The carriage did not return to origin point when the origin key pressed after in the VIEW mode.
11. The plotter cut from the viewing position when the copy key pressed after in the VIEW mode.
12. The ESC commands did not work after the TC command did not receive the ETX.
13. The ZF command was affected to the all perforations. It should affect to the "OFF" and "NON" only.
14. The FS command did not work when the ZF command is received.
15. The exchange of the Tool 1-2 and the Tool 1-3 was not correct.
16. The plotter locked up when the view mode was performed more than two

- times after the media is loaded with the ROLL 1 mode.
17. The plotter locked up when the cross cut was performed when media is not loaded.
 18. The Cross-Cut key was affected in the blade length adjustment menu.
 19. The cross cut could not cancel when the roll media was loaded from the front.
 20. The copy mode did not reset when the cam lever is opened.
 21. The plotter locked up when condition key was pressed during performing the cross cutting.
 22. Sometimes the plotter locked up with the "MEDIA END" error when the menu key was pressed during cutting.
 23. The 3rd line of message was not displayed when the 1st line of message is displayed in one line.
 24. The test cutting was performed on the outside of media when the test cutting was performed with the Tool 2.

Version 3.10

(This version is not released)

- Fixed problem
 1. There was extra feed when the auto pre-feed function is ON.
 2. The task of cutting did not separate when more than one PCs were connected to the one plotter in LAN when the plotter controlled by the Graphtec Studio or the Cutting Master 3.
 3. The cross cutting was performed when the sheet media was loading.
 4. The cutting position was not started from correct position when after the rotation was specified by the registration mark command of "TB501".
 5. The Y position error occurred when the continuation was selected when the media sensor function is disabling.
 6. The origin was not changed to (0.0) when the origin key pressed after reading the 4 points registration mark.
 7. The media sensor detected the media end when the initial feeding is performing during disabling the media sensor function.
 8. The incorrect error message log time was saved when the display language was selected by turning on power while the F1 key or the F3 key is pressing.
 9. The data dump print size was changed when the magnification is changed.

Version 3.01

Release date: October 24, 2012

- Fixed problem

1. The manual offset adjustment of registration mark was not working correctly.
2. When entering to the service mode, the pen block was hit to the left side plate when the setting of rotation or mirror is ON, and then position alarm error displayed.
3. The tool position did not move to the position of registration mark sensor when the scanning error is displayed at thickness cutting mode.

Version 3.00

(This version is not released)

- Fixed problem
 1. The ESC command did not output the minus value.
 2. The command of "TC21" did not function correctly when the parameter was set to other than 0 and 1.
 3. The command of "TC24" did not function correctly when the parameter was set to other than 0 and 1, 2.
 4. The parameter for command of "TC25" did not have a limitation.
 5. The command of "TC26" did not function correctly when the parameter was set to other than 0 and 1.
 6. The parameter for command of "TC27" did not have a limitation.
 7. The parameter for command of "TC28" did not have a limitation.
 8. The mode did not change when from "TC28,11" to "TC28,18" are received.
 9. The parameter for command of "TC33" did not have a limitation.
 10. The command "ESC,C31;28;s:" and "ESC,C31;33;l:" did not function correctly when the minus parameter was set.
 11. The parameter for command of "TC34" did not have a limitation.
 12. The registration mark size command of "TC51:" did not have a limitation.
 13. The registration mark offset command of "TC54:" did not have a limitation.
 14. The registration mark offset command of "ESC. C31;54:" did not respond correctly.
 15. The registration mark position adjustment command of "TC55" did not function correctly.
 16. The cross cut-commands "TC1000,1", "TC1000,2" and "TC1000,3" did not function correctly.
 17. The response of tool up/down value was incorrect.
 18. The registration mark distance adjustment command "TC1005,5" should not be set to "OFF".
 19. The tool was not moved when the rotation command "TC1008,3" and the

reverse command "TC1008,4" were received.

20. The setting value of "TC2010,1" was not output.
21. The fan power command "TC1010,7" did not function correctly.
22. The communication of LAN was stopped when the response ESC commands were received.
23. The minus position of registration mark was not detected.

- Modification

1. The model service number command was added.

Version 2.90

Release date: December 7, 2011

- Fixed problem

1. The position was shifted when after reading the registration mark when the "PR" command of HP-GL was received.
2. The off-scale error was not appeared when after the cross cut command was received.
3. The origin key set the origin after the view key was pressed.

Version 2.80

Release date: September 21, 2011

- Fixed problem

1. The second task of data was not received if the data was output via the LAN port continually.
2. The sort status of condition print was swapping between the tool data sort and the aria data sort.

Version 2.70

Release date: February 16, 2011

- Fixed problem

1. The user mode of distance adjustment was cleared in the following condition, when the cam lever opened, and then the media type was selected.
2. The FC8000 hanged up in the following condition, when the registration mark reading error displayed and the FC8000 was receiving big size of cutting data.
3. The tool position error routine was removed.

Version 2.60 (Not released)

Release date: November 1, 2010

- Fixed problem

1. The tool position error displayed in the following condition, when the cam lever

- opened more than 7 sec, and then the cam lever closed.
2. The tool position error displayed when entering the adjustment mode.

Version 2.50**Release date: October 6, 2010**

- Fixed problem
 1. The movement at the print character command in GP-GL was incorrect.
The position moved to the end of character after the Home command "H" was received at end of the print character command. The position should be moved to the home.
- Modification
 1. The tool position error routine was added to avoid the coil-burning problem.

Version 2.40**Release date: June 22, 2010**

- Modification
 1. The one pass cross cut function was added to the AKZ suffix model.

Version 2.30**Release date: May 6, 2010**

- Fixed problem
 1. The power didn't uncommonly stand up.
 2. The wrong value was printed out for the time out of condition list print.

Version 2.20**Release date: April 14, 2010**

- Fixed problem
 1. The registration mark sensor error occurred sometimes.
 2. The media was hit to the carriage after cross cutting was performed. And then the paper jamming occurred.
 2. The tool did not rise when the condition key was pressed.
 3. The plotter controller downed sometimes when the command setting was set to the HP-GL or the Auto-mode.
 4. The cross cutting position was wrong in the AP mode.
 5. There was extra movement after the cross cutter was performed.
 6. The cutting line of corner was deformed to the round when the fast cutting speed with the low acceleration.

Version 2.10**Release date: October 22, 2009**

- Fixed problem
 1. The Y position alarm was displayed when the pen is moved to the far left side for the 2nd pen option model.

The cutting area for the Y-axis changed for 2nd pen option model.

FC8000-60: 610 mm

FC8000-75: 753 mm

FC8000-100: 1053 mm

FC8000-130: 1352 mm

FC8000-160: 1613 mm

Note:

You must update to this version of firmware when the 2nd pen option was installed to the FC8000.

Version 2.00

Release date: July 28, 2009

- Fixed problem
 1. Sometimes the stop key did not function when the pen sorting setting was ON.

Version 1.90

Release date: July 15, 2009

- Fixed problem
 1. The FC8000 was locked when the stop key was pressed if the cutting condition of the speed set to 1 and the acceleration is set to higher than 6.
 2. The feed operation was started after media was loaded when at the following condition.

Front loading setting, Auto pre-feed ON, HP-GL command set, the media set to Roll 1 mode.
 3. The cross cutter couldn't cut the media well sometimes.
 4. The margin mode selection was added to the adjustment mode.

The roll 1 mode of front margin of the cross cutting become from 18 mm to 38 mm when the expanding is selected for the margin.

The roll 2 mode of front margin of the cross cutting become to 38 mm when the expanding is selected for the margin when the front media sensor is not detecting the media.
 5. The auto pre feed performed only for the first segment when the segment joint mode is ON.
 6. The feed length of the AP mode was incorrect. The length of margin was not added.

7. The FC8000 cut the media by the tool 3 when the FC8000 operated as procedure below even the tool 1 selected.
Select condition 8 -> remove media -> insert the media -> Select condition 1
8. The reading error occurred for the 2 pens model of the FC8000 when the registration mark is located to near the left of pinch roller.

Version 1.80**Release date: May 22, 2009**

- Fixed problem
 1. The cross cutting did not perform when the command auto-selection, the AP mode ON, and the time out 30 sec.
 2. The pen was moved when the position-key was pressed continuously during receiving the draw command.
 3. The media selection menu was displayed when the cam lever is used during the position alarm occurring.
 4. Sometimes, the tool selection menu was not displayed.
 5. There was the extra movement when the command auto-selection, using the USB port, the pen-up speed 1cm/sec, the pen no.1 holding, the tool condition set to the tool 2 and the test cut is performed.
 6. The media did not feed when the plotter received the "M0,0,E100,0,F10000,0,A" at the GP-GL command mode with the pen sorting ON.

Version 1.71**Release date: March 25, 2009**

- Fixed problem
 1. The FC8000 hanged up when the STOP key was pressed during auto pre-feeding.
 2. Sometimes the registration-mark did not detect. The FC8000 detected the cutting mat as the registration-mark.
 3. The dotted line setting was not affected in the TEST CUT.
 4. The second tile did not cut. (For the suffix AMM.)

Version 1.70**Release date: February 5, 2009**

- Fixed problem
 1. The command error appears at the command auto mode when the controller was started. The command setting was not set to neutral after the controller

closed.

2. The carriage was vibrated during cutting the large arc.
(Speed: 30 cm/sec, Acceleration: 0.5G, Arc size: larger than 200mm)

- Modification

1. The position keys menu added to the pause menu.
2. The registration mark detection of segment for the long media was improved.
3. The registration mark detection method was changed to 1 pass detection.
4. The suffix for AMM added. (This is not for standard model.)

Version 1.50**Release date: December 11, 2008**

- Fixed problem

1. When the registration mark position was set and the registration mark detection setting is off the registration mark was not detected correctly.

Version 1.40**Release date: December 3, 2008**

- Fixed problem

1. The copy function did not work within 10 sec cutting was finished when the auto command detection mode is set to on.

Version 1.30**Release date: November 19, 2008**

- Fixed problem

1. The time out function for the AP mode was not worked when the auto command detection mode is on when the time out was set longer than 30 sec.
2. The plotter hanged up when the test cut was performed during detecting the command.
3. The command error appeared when the test cut was performed at the HP-GL command mode.
4. The plotter could not stop moving when the USB cable or LAN cable was unplugged when the carriage was moving by controller.
5. The test cut could not perform when the sorting setting is on at the HP-GL command mode.
6. Sometimes the communication error appeared when the registration setting, the registration position adjustment, and the test cut were performed at the HP-GL mode or the auto command detection mode.
7. The plotter hanged up when the test cut was performed after the offset was

set at the auto command detection mode or the HP-GL command mode.

8. The X-axis of the first registration mark could not detect with the type-1 registration mark.
 9. The "Set Tool" message displayed often when the cross cutting was performed and the tool setting was set to the tool 3.
 10. The cam sensor was not detected when the distance adjust escaped with the service mode of distance adjustment.
 11. The tool exchange message was displayed when the tool setting was set to 3 from 1 at the condition settings menu.
 12. The plotter could not plot the kanji characters.
- Modification
 1. The step size for the registration adjustment was changed to 0.025 mm from 0.1 mm.

Version 1.20

Release date: September 16, 2008

- Fixed problem
 1. The plotter hanged up when the three triangles of test cutting performed at the automatic command-detecting mode.
 2. The second pinch roller detecting position was wrong for the FC8000-60. It was shifting 1 cm to right from the correct position.

Version 1.10

Release date: September 10, 2008

- Fixed problem
 1. There was extra movement for the registration mark sensor adjustment in the service mode. Removed extra movement.
 2. The media jam occurred when the cross cutting performed for shorter than 80 mm wideness of media.
 3. The media sensor was always detecting the media during operation of the cross cutter. Therefore the "cross cutting" was displayed on the LCD always.
 4. The 0 to -0.99 parameters for the GL-GL commands were not performed correctly, became plus value always. Especially when big circle was cut that the connection for line and circle were shifted.
 5. There was a bug when displaying error log. When the error logs were over 32 the old error log displayed to the top.

6. The wrong error log was displayed when F4 key was pressed. The error log of the F3 key was displayed when F4 key was pressed.
 7. The plotter hangs upped when the stop key pressed and then data cleared during using the roll media.
 8. Sometimes the registration mark scanning started from wrong location when it scanned by normal speed.
- Modification
 1. The display language change function was added when pressed F1 or F3 during turning on the power.
 - Pressing F1: Japanese
 - Pressing F3: English
 2. The unit of the blade length setting was wrong when in the inch unit. The unit was 0.02 inch; the unit was corrected to be 0.002 inch.
 3. The CUTTING PRO test-cutting mode was added.
 4. The function was added that is display the media size.
 - Press the Fast key to display the media size during the ready mode.
 5. The X-axis running test mode was added for the adjustment mode.
 6. The tool up/down running test mode was added for the adjustment mode.
 7. The procedure for adjustment of the registration mark sensor was changed.
 8. The total running test mode added for production.

Version 1.07

Release date: June 26, 2008

- Fixed problem
 1. The length of cut line pattern was not matched with length.
 2. The error message did not disappear in five sec.
 3. The error message did not disappear when the enter key pressed.

Version 1.06

Release date: June 11, 2008

- Fixed problem
 1. The GP-GL command could not receive when the command setting was set to the auto mode.
 2. The error message was not displayed five sec.
 3. The cancel operation was not performed correctly.
 4. When the LAN setting was changed the cutting plotter was not initialized.
 5. The error occurs when cutting data send from the CM2.

6. The registration adjustment did not work correctly.
7. The default scanning speed of the registration mark set to the normal speed.

Version 1.05 (Not released)**Release date: June 11, 2008**

- Fixed problem
 1. The error message was displayed when detecting the registration marks from the CM2.
 2. The wrong position of adjustment position was
 3. The offset key pressed when the beep sound setting was off, the beep sounded.
 4. The registration mark sensor error occurs when the base sensor level is different from the adjusted sensor lever.

Version 1.04 (Not released)**Release date: June 11, 2008**

- Fixed problem
 1. The display times for the error message were short, could not read it.
 2. The position returned to the previous position when one step moved by position key.
 3. The offset key pressed when the beep sound setting was off, the beep sounded.

Version 1.03 (Not released)**Release date: May 28, 2008**

- Improvement
 1. The tool exchange test was added for the adjustment mode
 2. Sometimes, the position returned to the previous position when moved by position key.
 3. The response of the push roller sensor test was slow at the adjustment mode.

Version 1.02**Release date: May 22, 2008**

- Fixed problem
 1. The unit of the position was mm should be cm.
- Improvement
 1. Corresponded for the SWC model.

Version 1.01 (Not released)**Release date: May 19, 2008**

- Fixed problem

1. The registration mark sensor function was not performed correctly.
2. The error was displayed when detecting the last registration mark for the multi registration mark pattern.
3. The wrong information was displayed at the error list.

Version 1.00 (Not released)

Release date: May 7, 2008

- Initial version

End