FC2250 Series Cutting Plotters

Version 4.60   *Release date: April 27, 2021.*

- Fixed problem
    1. In the segment area registration mark, speed of plotting containing Bezier curves over multiple segments was slowed down.
    2. It did not respond to OZ commands correctly when using the multiple registration marks.
    3. When the tool sort was selected, plotting data with multiple registration marks occurred in a scanning error at the second mark.

- Modification
    1. The following commands were added for application software.
       Gets setting from plotter
       Sets the setting to plotter

Version 4.50   *Release date: May 10, 2017*

- Bug fixed
    1. Processing of multi pass cutting was not worked correctly when the next data of cutting job was received with the registration mark.
    2. The multi registration mark mode was not worked correctly.

Version 4.40   *Release date: November 26, 2014*

- Bug fixed
    1. There was extra scanning movement when the multi registration marks are scanning. Sometimes it started to scan the registration marks after the cutting processing was finished.

Version 4.30   *Release date: September 10, 2014*

- Bug fixed
    1. The plotter was locked when the V2.1.211 of CM3 is connecting without operation several hours.
- Improvement

1. The pen type was changed from the ceramic pen to the ballpoint pen for the distance adjustment in the service mode.

- Bug fixed
    1. The NEC font (Non Standard Japanese Kanji characters) could not print.
    2. The FC2250 locked at the following condition.
       The overlay setting is set in the one of condition.
       The TEST CUT was performed when the data received.
    3. The cutting data was ignored when data was sent during cutting the 2nd overlay.
    4. The tool position moved to first position after a few second at the following condition.
       When the PAUSE was released, and when position of tool moves by using position keys, and when the CM3 is connecting.
    5. The force of TEST CUT was incorrect when the overlay is set to ON.
       The force of first TEST CUT should be the half of setting force.
       And force of from second TEST CUT should be the setting force.
       But the all force of TEST CUT was the setting force.

- Bug fixed
    1. The Graphtec Studio and the Cutting Master 3 could not connect via the USB port when the Xon/Xoff was set in the RS-232C interface setting.
    2. The cutting area of Graphtec Studio was incorrect when the over cut setting is ON.

- Bug fixed
    1. The test cutting was not finished when the test cutting is performed from the Graphtec Studio in the following condition setting.
       Condition 4: Cutter mode, Over cut
       Condition 1: Pen mode, Non Over cut

    2. The self-test size was changed when the magnification is changed.
    3. The registration mark sensor position moved to the pen position when the

"Interface clear" command is receive in the GP-GL mode.

4. The initial blade control of second tool was performed in wrong position when the initial blade control position was set to outside of cutting area.

Version 3.90   *Release date: January 30, 2013*

● Improvement
   1. Corresponded to the Cutting Master 3 and the Graphtec Studio.
      The firmware has to update when the Cutting Master 3 and the Graphtec Studio used with FC2250 series.

Version 3.80   *Release date: November 7, 2012*

● Bug fixed
   1. The copy function was not worked under the following condition.
      ➢ The over cut was set to un-cut condition setting.
      ➢ The cutter blade was selected for the cutting condition and the over cut setting is set to OFF.
   2. The registration adjustment was shifted when after origin moved by position keys.

Version 3.70   *Release date: June 13, 2012*

● Bug fixed
   1. The carriage did not stop moving during controlling by the plotter controller when the USB cable is disconnected.
   2. The cutting position was shifted with the relative move command of HP-GL received after the 4 points registration mark was scanned.
   3. The multi cutting function was not worked correctly at the HP-GL command mode.
   4. The pause was not working correctly. The cutting was started by middle of data buffer.
   5. The ESC command of HP-GL could not respond when the FC2250 is in the multi cutting function mode.
   6. Only two copies were cut even if copies are set to more than three when the FC2250 is in the multi cutting function mode. And the origin was shifted.
   7. The home command did not work correctly when the FC2250 is in the multi cutting function mode.
   8. The copy key and the pause key did not respond after the multi cutting is

finished.

- Bug fixed
    1. The FC2250 locked when Pause key is pressed during Pen Block is moving to upper right position after received the AF, AH, PG, and NR command in HP-GL.
    2. There was extra movement in the over cutting process.
    3. The offset of registration mark setting by position key did not effect if the power switch did not turn on again.
    4. The offset of registration mark position was shifted with registration mark was scanned by the TC54 command.
    5. The registration mark of distance adjustment did not effect when the registration mark function was changed by the TB command.

- Bug fixed
    1. The pen hits to the writing panel when the command emulation was changed by the "TC" command.
    2. The parameter of "TC3" command was not working correctly.
    3. The "TC7" and "TC8" command performed the different test cutting from the test cutting of control panel.
    4. The "TC26" command performed the different operation from the reverse mode of cutting of control panel.
    5. The "TC32" command performed with parameter 0.
    6. The "ESC.C31;32" command output incorrect data.
    7. The "TC55,1,1" did not work correctly.
    8. The X position alarm occurred when the distance adjustment was performed in the adjustment mode sometimes.
    9. The holding pen number was changed from 2nd pen to 1st pen when the command emulation was changed.
    10. The registration mark could not scan when the Y-axis of registration mark was positioned near to the cutting area of origin.
    11. The adjustment of registration mark position of adjustment mode was not saved correctly.

- Bug fixed
    1. The wrong model name (FC7000) was output when the "ESC.C31;9:" and the "TC9.1", "TC9.2" was received.
    2. Minus value was not output at the ESC commands.
    3. The "TC21" was able to set by except 0, 1.
    4. The "TC24" was able to set by except 0, 1.
    5. There were not limitations for the "TC28" command.
    6. The plotter initialized when the minus parameter of "ESC.C31;28;s" and "ESC.C31;33;l:" was received.
    7. The "TC29" command was not able to set the parameter 1 to 4.
    8. The output data of "ESC.C31,29" command was not correct.
    9. The "TC33" command was not working correctly.
    10. There were not limitations for the "TC54" command.
    11. The output data of "ESC.C54" command was not correct.
    12. The offset was set to minus value when the offset is larger than 33 inch by the control panel.

- Improvement
    1. The "TC1,a", "TC2,a", "TC3,a","TC4,a", "TC11", "TC12", "TC13", "TC14", and "TC15" commands were supported.
    1. The parameter larger than the 11 of "TC28" command was supported.
    2. The parameter larger than the 11 of "ESC,C31;28;s:" command was supported.
    3. The "TC52" command was supported.
    4. The "ESC.31.52" command was supported.
    5. The "TC55" command was supported.
    6. The model service number command was added.

Version 3.40   *Release date: March 30, 2011*

- Bug fixed
    1. The View function did not work correctly, when the sorting function is ON.
    2. The carriage did not move to the home position when the sorting function is ON and the view function is set in the driver.
    3. The moving coil electric current checks routine was removed.
    4. When the error occurs during the registration mark is reading the plotter did not become to the ready mode.

Version 3.30 (This version was not released.)

Version 3.20 (Do not install this version.)   *Release date: October 13, 2010*

- Improvement
    1. The moving coil electric current checks routine was added to avoid the moving coil burning.

Version 3.10   *Release date: March 25, 2010*

- Bug fixed
    1. The "Tool Position Alarm" was appeared when in the Adjustment mode.

Version 3.00   *Release date: January 18, 2010*

- Improvement
    1 Corresponded to the new type of pen coil for the pen block assembly.
       (Set dip-Switch Bits 7 to OFF when the new type of pen coil for the pen block assembly was installed.)

Version 1.80   *Release date: January 20, 2010*

- Bug fixed
    1. Sometimes the NovRAM was cleared.
       Some of the ESC commands except the specification wrote to the NovRAM incompletely.

Version 1.71   *Release date: July 1, 2009*

- Bug fixed
    1. Sometimes the tool position error occurred when the writing panel used in the tilted condition.

Version 1.70   *Release date: May 22, 2009*

- Bug fixed
    1. The origin point was shifted when after the segment registration mark setting of the data was cut.
    2. Sometimes, the LED displayed unknown characters.
    3. The tool was up when the creasing setting was set to the odd number and the

starting point 0 mm at ceasing mode 1.

4. The function to be one block data mode was added to the background menu when the creasing mode of the starting point setting is 0 mm.

5. The move speed became four times fast from the supposed speed when the position was moved by position key or during detecting

6. The plotter did not cut correctly when the rotation was set in the reverse registration mark mode.

7. The pen was moved when the position-key was pressed continuously during receiving the draw command.

8. The four times of values was set for the tool interval adjustment when the plotter is in the inch mode.

9. The tool position error message was added to protect the burning for pen coil when the flexible cable was broken.

● Improvement
   1. The method of the registration mark detecting was improved.

Version 1.60	*Release date: October 23, 2008*

● Bug fixed
   1 Sometimes, the pen Up/Down was oscillated, especially when the pen was not mounted on the penholder.
   2 The plotter locked after the power turned on when the tool move mode was enabled at the HP-GL center origin mode.

Version 1.53	*Release date: September 18, 2008*

● Bug fixed
   1. The large size of circle or arc was not connected at the GP-GL command mode.

● Improvement
   1. The pause command (ZA) was added for the HP-GL command mode.

Version 1.52	*Release date: July 23, 2008*

● Bug fixed
   1. The Y bar hit the limiter when adjusting the position of the registration mark in the adjustment mode.

Version 1.51   *Release date: May 9, 2008*

- Bug fixed
    1. The plotter did not cut correctly when the twice "NR" command is in the data at the repeat cutting.

Version 1.50   *Release date: May 9, 2008*

- Bug fixed
    1   The large data did not cut correctly when the sorting setting is ON.
    2   The object was cut twice when the registration mark function was executed at copy mode.
    3   There was extra movement when changing tool.
    4   There was extra movement when the repeat cutting was set to the unused condition number.

- Improvement
    1. The menu for the adjustment mode was corrected.

Version 1.40   *Release date: March 11, 2008*

- Bug fixed
    1. The repeat cutting was not started immediately when the repeat cuttings setting is ON.
    2. The carriage did not move to the waiting position when the plotter received "NR" command.
    3. It was taking time to cut when the plotter received "FS" command.
       The plotter was executing the initial blade controlling always.

Version 1.30   *Release date: January 21, 2008*

- Improvement
    1. The suffix is added for TORY.

Version 1.20   *Release date: November 8, 2007*

- Bug fixed
    1. Sometimes unknown character was displayed when turn on the power for the plotter.
    2. The maximum value of the cutter offset was 45 for the "TC5" command.

The maximum value of the cutter offset changed to 99.

3. The carriage hit the limiter when the tool is changed from 1 to 2 at the carriage waiting position.

Version 1.10   *Release date: October 10, 2007*

- Bug fixed
  1 The operation of the creasing tool became to the cutter pen tool when the condition setting was selected for the cutter pen.
  2 The plotter was hanging up when the offset key was pressed at the test menu.

Version 1.02   *Release date: August 27, 2007*

- Bug fixed
  1 Some of the print server could not connect via the USB.
  2 The value of the offset was not cleared when the default factory setting function was performed.
  3 The offset position was shifted when the offset moved after the plotter scanned the auto registration mark by using the cutting master 2.
  4 Response of the position key was not good.
  5 The pen force of the cutter offset and pen force of the one shot were incorrect.
  6 The pen did not completely lift up when the 30U plunger was used.
  7 The thickness mode was always set to the mode 2.
  8 The carriage was hit to the mechanical stopper when scanning the auto registration mark on the FC2250-60.

Version 1.01   *Release date: August 8, 2007*

- Bug fixed
  1. The plotter could not detect the X and Y home position.
  2. The adjustment pattern of distance by size could not select.

Version 1.00   *Release date: August 8, 2007*

- Initial version

End