FC9000 SERIES

CUTTING PLOTTER

Additional User's Manual

MANUAL NO.FC9000-UM-252

GRAPHTEC

Preface

Thank you for choosing a Graphtec FC9000 Series Cutting Plotter.

This manual explains the newly added functions.

Supported firmware versions

To use the newly added functions, the FC9000 firmware version must be "2.10" or later.

The latest firmware and installation instructions are available below.

https://www.graphteccorp.com/support/software/cutting/

Notes on this Manual

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Chapter 1: Settings for new functions

This manual explains the newly added functions.

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1.2 Set the FILM MODE
1.3 Set the MEDIA SET ASSIST
1.4 Set the START MARK SCAN LENGTH
1.5 Check plotter information
1.6 Set the display language

1.1 Set the CROSSCUT MODE to high speed

The "FAST" setting in CROSSCUT MODE is a function that performs a crosscut from one end of the media to the other end in one tool movement.

Crosscut time is shorter than "NORMAL" operation (three-step operation).

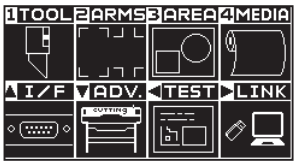
Supplement

- **This setting will be saved even if the power is shut off.**
- **Crosscutting with "FAST" is not guaranteed.**
  Depending on the media type and condition, a jam may occur or the cut may not be straight.
  Make sure in advance that crosscutting can be performed correctly with the media you are using.
  If crosscutting is not possible correctly, set "CROSSCUT MODE" to "NORMAL".

Operation

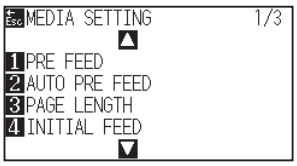
1 Press the [PAUSE/MENU] key.

▷ MENU screen is displayed.



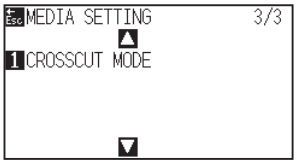
2 Press the [4] key.

▷ MEDIA SETTING screen (1/3) is displayed.



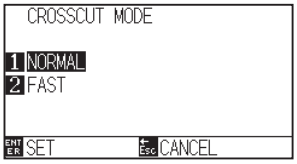
3 Press the POSITION (▼) key.

▷ MEDIA SETTING screen (3/3) is displayed.

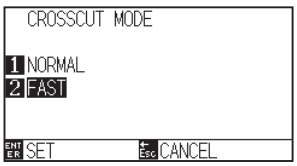


4 Press the [1] key.

▷ CROSSCUT MODE setting screen is displayed.



5 Press the [2] key.

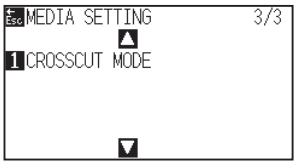


Supplement

The default value is set to "NORMAL".

6 Confirm the setting and press the [ENTER] key.

▷ Setting will be confirmed and it will return to MEDIA SETTING screen (3/3).



7 Press the [PAUSE/MENU] key.

▷ It will return to default screen.

1.2 Set the FILM MODE

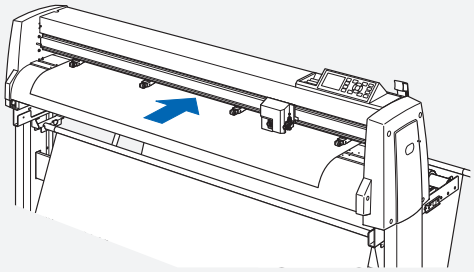
FILM MODE is a function that cuts in the "PULL CUT" direction for all commands received.

For some media such as films, it can be difficult to adjust the cutting conditions and blade length.

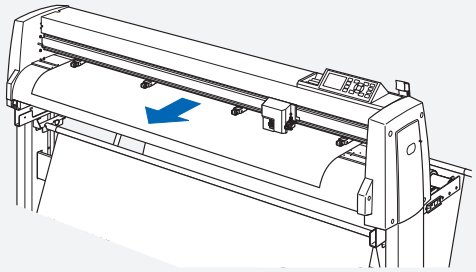
By enabling this mode, the adjustment tolerance range is expanded, therefore it may become possible to cut such media.

Supplement

- **This setting will be saved even if the power is shut off.**
- **This function cannot be used in conjunction with AREA SORT.**
  If both AREA SORT and FILM MODE are set to "ON", AREA SORT will be disabled.
- **Use this FILM MODE when cutting in the "PUSH CUT" direction is not possible.**
  The "DECISION MARGIN" in the setting item refers to the length that is acceptable for cutting in the "PUSH CUT" direction.
  If set to 2 mm, cutting in the "PUSH CUT" direction up to 2 mm will be acceptable.
  If set to 0 mm, all cutting will be in the "PULL CUT" direction.
- **The "PULL CUT" direction is the same as the direction in which the media is fed to the rear of the Cutting Plotter.**
  The "PUSH CUT" direction is the direction in which the media is fed to the front of the Cutting Plotter.



Media feeding direction of PULL CUT



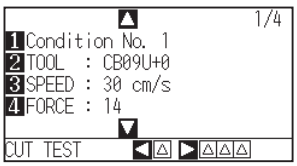
Media feeding direction of PUSH CUT

- **This changes all cuts to the "PULL CUT" direction, so cutting takes longer than usual.**
- **By reviewing the following adjustments, you may be able to cut without using FILM MODE.**
  ・Adjust the Blade Length.
  ・Reduce the Force. (This reduces friction and prevents the media from floating.)
  ・Set the CUT LINE PATTERN to "USER" and the UP MODE to a small value.
  (This improves image quality by not removing the blade tip.)
- **When outputting using a third-party application, set the last command to an end command (such as the H command or PG command) rather than a drawing command (such as the D command or PD command).**
  Ending with a drawing command may not work properly.

Operation

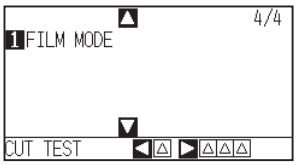
1 Press the [COND/TEST] key.

▶ CONDITION setting screen (1/4) is displayed.



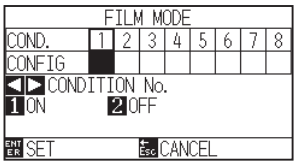
2 Press the POSITION (▼) key.

▷ CONDITION setting screen (4/4) is displayed.



3 Press the [1] key.

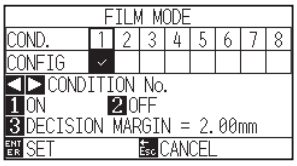
▷ FILM MODE setting screen is displayed.



4 Press the POSITION (◀ ▶) keys and select the CONDITION No.

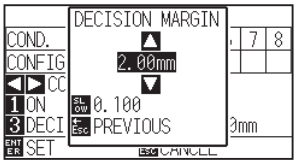
5 Press the [1] key.

▷ FILM MODE will switch to ON and the [3] key will become active.



6 Press the [3] key.

▷ DECISION MARGIN setting screen will be displayed.



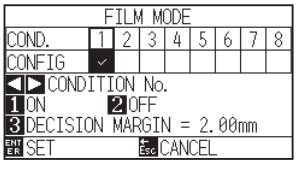
7 Press the POSITION (▲ ▼) keys and increase or decrease the setting value.

Supplement

- **You can set the range between 0.00 mm and 50.00 mm.**
- **Press the [SLOW] key to select the setting digits.**

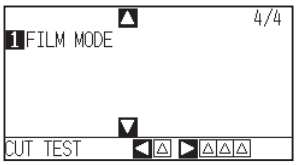
8 Confirm the setting and press the [ESC] key.

▷ FILM MODE setting screen is displayed.



9 Confirm the setting and press the [ENTER] key.

▷ Setting will be confirmed and it will return to CONDITION setting screen (4/4).



10 Press the [PAUSE/MENU] key.

▷ It will return to default screen.

1.3 Set the MEDIA SET ASSIST

MEDIA SET ASSIST is an auxiliary function that operates the suction fan when loading media to make it easier to load the media.

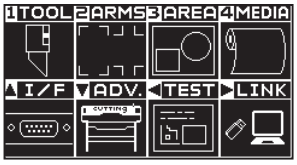
Supplement

- **This setting will be saved even if the power is shut off.**
- **Depending on the media type, it may be difficult to load the media when using the MEDIA SET ASSIST function. In such cases, set it to "OFF".**
- **The suction strength is linked to the "FAN POWER" setting.**
- **MEDIA SET ASSIST starts when the media sensor detects media while the Home screen is displayed (only while the media set lever is lowered).**

Operation

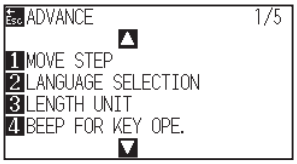
1 Press the [PAUSE/MENU] key.

▷ MENU screen is displayed.



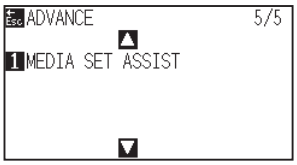
2 Press the POSITION (▼) key.

▷ ADVANCE setting screen (1/5) is displayed.



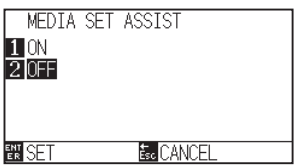
3 Press the POSITION (▼) key.

▷ ADVANCE setting screen (5/5) is displayed.

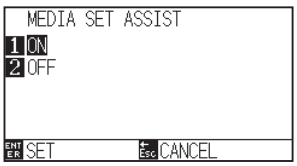


4 Press the [1] key.

▷ MEDIA SET ASSIST setting screen is displayed.



5 Press the [1] key.

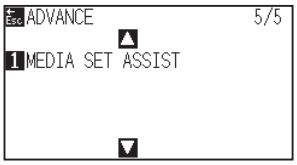


Supplement

The default value is set to "OFF".

6 Confirm the setting and press the [ENTER] key.

▷ Setting will be confirmed and it will return to ADVANC setting screen (5/5).



7 Press the [PAUSE/MENU] key.

▷ It will return to default screen.

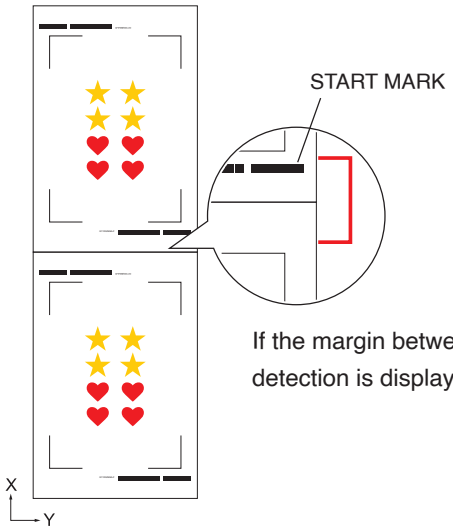
1.4 Set the START MARK SCAN LENGTH

Start Mark Scan Length is a function to specify the distance used to detect the start mark.

During continuous operation, if the margin between pages is large, the start mark of the next page may not be detected.

In such cases, increasing the scan length allows the start mark to be detected.

For details on continuous operation, refer to the instruction manual of each application software.



If the margin between pages (red line) is large and an error related to start mark detection is displayed, change the setting value of start mark scan length.

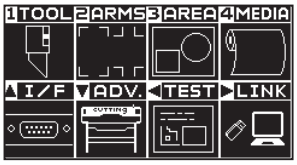
Supplement

- **This setting is retained even when the power is turned off.**
- **Adjust the setting value of the start mark scan length while actually scanning the start mark.**

Operation

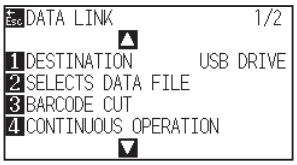
1 Press the [PAUSE/MENU] key.

▷ MENU screen is displayed.



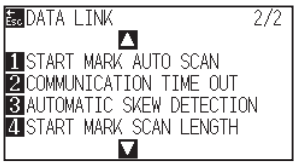
2 Press the POSITION (▶) key.

▷ DATA LINK screen (1/2) is displayed.



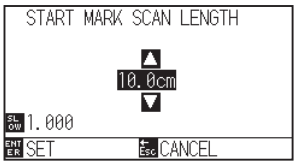
3 Press the POSITION (▼) key.

▷ DATA LINK screen (2/2) is displayed.



4 Press the [4] key.

▷ START MARK SCAN LENGTH setting screen is displayed.



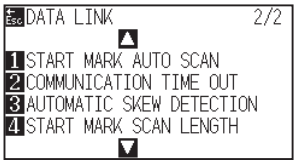
5 Press the POSITION (▲ ▼) key and increase or decrease the setting value.

Supplement

- **You can set the range between 10.0 cm and 50.0 cm.**
- **Press the [SLOW] key to select the setting digits.**

6 Confirm the setting and press the [ENTER] key.

▷ Setting will be confirmed and it will return to DATA LINK screen (2/2).



7 Press the [PAUSE/MENU] key.

▷ It will return to default screen.

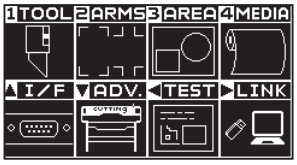
1.5 Check plotter information

Displays information such as the firmware version, serial number, and usage status of the plotter.

Operation

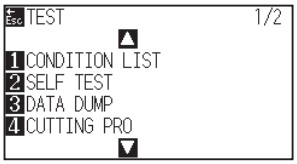
1 Press the [PAUSE/MENU] key.

▷ MENU screen is displayed.



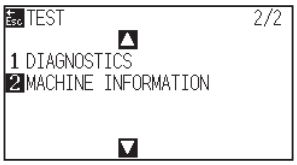
2 Press the POSITION (◀) key.

▷ TEST screen (1/2) is displayed.



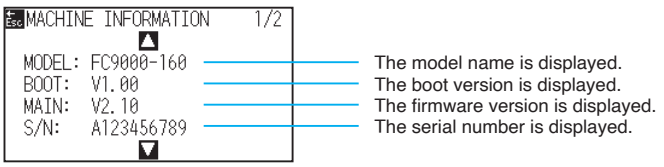
3 Press the POSITION (▼) key.

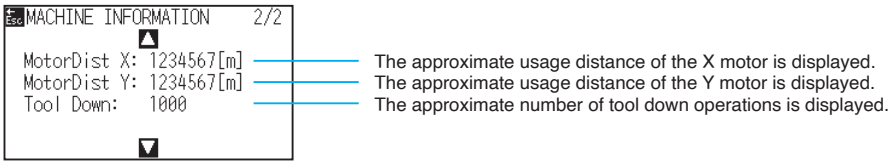
▷ TEST screen (2/2) is displayed.



4 Press the [2] key.

▷ Information about the machine is displayed.



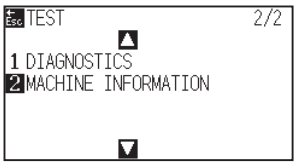


Supplement

Press the POSITION (▲ ▼) key to move to a different page.

5 After confirmation, press the [ESC] key.

▷ TEST screen (2/2) is displayed.



6 Press the [PAUSE/MENU] key.

▷ It will return to default screen.

1.6 Set the display language

This function sets the language used on the display.

One of eleven languages can be selected: English, Japanese, German, French, Italian, Spanish, Portuguese, Russian, Korean, Chinese, and Polish.

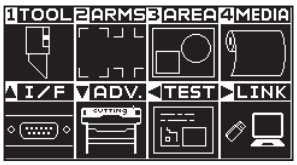
Supplement

Polish is supported starting with firmware version 2.10.

Operation

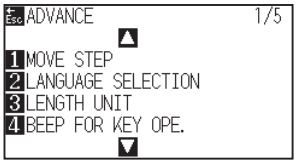
1 Press the [PAUSE/MENU] key.

▷ MENU screen is displayed.



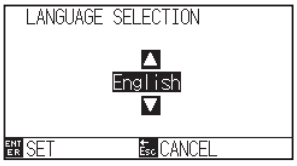
2 Press the POSITION (▼) key.

▷ ADVANCE screen (1/5) is displayed.



3 Press the [2] key.

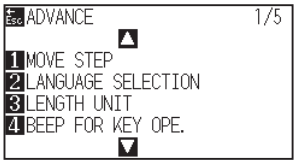
▷ LANGUAGE SELECTION screen is displayed.



4 Press the POSITION (▲ ▼) keys and select the language.

5 Confirm the setting and press the [ENTER] key.

▷ Setting will be confirmed and it will return to ADVANCE screen (1/5).



6 Press the [PAUSE/MENU] key.

▷ It will return to default screen.

Specifications are subject to change without notice.

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