

For CG-AR series users

# Support document of cutting with register marks (ERROR C36 MARK DETECT)

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# < Table of contents >

1.	Register mark detection after sheet detection	.3
2.	Register marks creating condition	. 5
3.	Register mark setting	.7
4.	Plotting from FineCut	.9
5.	Register mark error when plotting via FineCut and the other errors	10
6.	Troubleshooting	11



#### When did "ERROR C36 MARK DETECT" occur?

- \* In this document, the sheet is set in rear side, and the register mark detection setting is set to 1 point (recommended setting).
- \* Hereafter, "FineCut/Coat9" is referred to as "FineCut" in this document.

Please check the flow chart below and check and deal with the corresponding parts.



Refer to the figure below for the positional relationship of the register marks.



\* "ERROR C37 MARK ORG" and "ERROR C38 MARK SCALE" can also be dealt with by checking the items described in this document.



1. Register mark detection after sheet detection



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### 2. Register marks creating condition



<sup>\*</sup> When the [EXPANDS] option is turned on, the cutting range expands beyond the outer edge or the pinch roller.

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# 3. Register mark setting

Execute the menu. [MARK DETECT]	<b>CUCAL&gt;</b> CUT1 20 120 30 SPEED PRESS OFFSET FUNC TOOL REMOTE FUNC TOOL REMOTE FUNC1 SET UP <ent> ENTER MARK DETECT <ent></ent></ent>
1 <sup>st</sup> point (1) How many register marks are being used for REGISTER MARK DETECT? (MARK DETECT: 1pt	Default setting is "OFF". When using FineCut, set the plotter to 1-point detection, and in FineCut, set it to 4-point detection.
2 <sup>nd</sup> point (2) Do you set scale compensation? DIST.REVI.: OFF	Default setting is "OFF". When using FineCut, set [DIST.REVI.] to OFF.
<ul> <li>1<sup>st</sup> point 2<sup>nd</sup> point</li> <li>(3) What is the length of one side of the register mark?</li> <li>SIZE. : 10mm</li> </ul>	Default setting is "10 mm". Setting range: 4 mm to 40 mm Input a value that matches the size of one side of the register mark created in FineCut.
1 <sup>st</sup> point (4) What is the length of the offset values? OffsetA: 0.00mm OffsetB: 0.00mm	Default setting is "0 mm" for both [OffsetA] and [OffsetB]. [Offset A] is used for adjusting the feed direction, and [Offset B] is used for adjusting horizontal direction. The offset represents the distance of movement from the origin of the register mark, so it is typically set to 0.00mm. (If there are values already entered, simply press the ENTER key.)
1 <sup>st</sup> point         (5) Which shape are you using for register marks?         FORM: Type 1 dir	Default setting is "Type 1". Ensure that the register mark shape set on the plotter matches the register mark shape created in FineCut. Outward = Type 1, Inward = Type 2
(6) How many copies do you set? COPIES A (↑): 1 COPIES B (<-): 1	Default values for both [COPIES A] and [COPIES B] are "1". [COPIES A] is used for specifying the feed direction, and [COPIES B] is used for specifying the lateral direction. Please avoid making any changes to these values when using FineCut.

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2 <sup>nd</sup> point	Default setting is "0".
	It is recommended to se the speed to 15cm/s to 20cm/s when the sheet is
(7) What are you setting the high-	sliding and the register marks cannot be read property.
speed limit to?	
SPD LIMIT: 15cm/s	
(8) Do you set [SKEW CHECK]	Default setting is "OFF".
off?	Sets the allowable sheet shift amount for continuous copying.
SKEW CHECK: OFF	Normally, it should be left as "OFF".
st , and ,	Default setting is "FAST". (High speed)
1 point 2 point	If the register mark detection is not functioning properly, set it to "PREC"
(9) What are you setting as	(precision) mode.
[DETECT MODE]?	
DETECT MODE: FAST	
st and a	Default setting is "4".
1 point 2 point	If the register marks are falsely detected, lower the value.
(10) What are you setting as	If they are not detected, increase the value.
[SENSOR LEVEL]?	
SENSOR LEVEL: 4	
st	Default setting is "OFF".
1 point 2 point	If you filled in the register marks using FineCut, set it to "ON".
(11) What are you setting as [MARK	
FILL UP]?	
(MARK FILL UP: OFF	
(12) What are you setting as [DATA	Default setting is "OFF".
ID CODE]?	Set it to "ON" when using the ID cut function.
DATA ID CODE: OFF	



# 4. Plotting from FineCut

Please follow the operation instructions.					
1. Launch FineCut and click on the [Register Mark] tab in the plot screen.					
Fine Cut 9	Sheet Loading Plot End				
Revenue Concurre Sheet Size	++ 1300 mm   ⊕   ↓ 2000 mm   ⊕ ++ 0 mm   ⊕   ↓ 0 mm   ⊕				
Size Size Scale(%)	++     125.79 mm     +     +     100     +     +     100     +     +     100     +     +     100     +     +     100     +     +				
Copy Margin					
Layout \Tiling Re	++ 125.79 mm				
Detect Mr	ark				
	Layout Tiling Register Mark				
6 m m	Detect Mark				
* Rotate the sheet beforehand to ensure it is in the same orientation, and then click on the [Register Mark] tab.					
2. Click on the [Detect Mark] button.					
Layout Tiling Register Mark					
Detect Mark					
3. The screen will switch after recognizing the dimensions within the registration marks area.					
	Layout Tiling Register Mark				
3	Exit Detection Mark Size: 10 mm				
Copy         *         0         \$         1         \$           Copy Margin         *         100         \$         1         \$         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         1         \$         \$         1         \$         \$         1         \$         1         \$	Repeat + 1 +				
Lavout Taling Repiter Mark	Search Position First Time				
Search Parsiant and Continue	Continue La				
	Set the registration mark detection to "4 points detection"				
	for the "First lime".				
	accuracy when using 4-point detection				
	arrent of the stand of point accordion.				
4. Click on the [Plot] button.					
Initialize Sheet Loading					



### 5. Register mark error when plotting via FineCut and the other errors

#### 2<sup>nd</sup> point

 In case of an error during registration mark detection from the second mark onwards: Measure the distance between the registration marks on the printed material and compare it with the specified registration mark distance in your data. If the measured distance between the registration marks deviates by more than twice the registration mark size, it may result in a registration mark error.

(Example: If the register mark size is 10 mm, an error occurs if the measured distance between the registration marks deviates by 20mm or more.)



### 6. Troubleshooting

- Q. Register mark detection pointer is not turned on.
  - A. Is the register mark detection setting turned off? Set it to "1pt". [SETUP] -> [MARK DETECT] -> [MARK DETECT]
- Q. The register mark detection is not capturing the registration marks on the backside.
  - A1. Is there a margin of 45 mm or more from the back end of the register marks? Check (3) in "2. Register marks creating condition". If the margin is insufficient, try extending the sheet by adding an additional piece.
  - A2. Is the sheet not properly aligned and set? Please Try resetting the sheet so that the register marks are straight.
- Q. When cutting large-sized (exceeding 1m) data with register marks, there may be occurrences of cutting misalignment.
  - A. Try reducing the cutting speed to a slower setting (around 5 cm/s) and set the sheet setting (SHEET TYPE) to "HEAVY" to prevent misalignment.
     [SETUP] -> [SHEET TYPE]
- Q. When issuing a cut command using FineCut, the registration mark detection completes successfully, but the cutting process does not start.
  - A. Is there any cutting data? Check in Illustrator by going to "View" -> "Outline" to see if there is any data other than the registration marks.
- Q. When giving the command for register mark cutting from FineCut, the cutting starts without detecting the register marks.
  - A. Have you forgotten to press the "Detect Mark" (register mark recognition) button in FineCut? Refer to "4. Plotting from FineCut" and check if the area inside the register marks is displayed as the cutting area when you press the "Detect Mark" button on the FineCut plot screen.
- Q. The cuts are misaligned overall.
  - A. Try adjusting "Offset A" and "Offset B" settings in the register mark detection settings.

[SETUP] -> [MARK DETECT] -> [OffsetA]

If the cut is shifted downwards, increase the value.

If the cut is shifted upwards, decrease the value.

[SETUP] -> [MARK DETECT] -> [OffsetA]

If the cut is shifted to the left, decrease the value.

If the cut is shifted to the right, increase value.

- Q. The cut is shifted to the left or right.
  - A. Is the pinch roller pressure set symmetrically from left to right? Set both ends to the "high (strong)" position to ensure symmetrical pressure.



#### Q. The length of the cut is shrinking

A. Try setting the high speed limit [SPD LIMIT] in the register mark detection menu to 20 cm/s or lower. GO to [SETUP] -> [MARK DETECT] -> [SPD LIMIT] to adjust the value.



This document was created based on calls received from users.

If you cannot solve the problem even after checking the contents of the document, or if you have any questions, please contact your local dealer for assistance.

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