Thank you for choosing a SATO RFID Printer. This guide will help configure the printer to encode your inlays.

Four Easy Steps of RFID Configuration

1. Examine labels to determine printer settings.
2. Set up printer.
   A) Menu Settings
   B) Physical Antenna Position
3. Set labels and carbon ribbon.
4. Confirm operation by printing/encoding a label.

Refer to the CL4NX Operator Manual for more information. You can access the CL4NX Operator Manual from the website for your region linked from www.satoworldwide.com.

1. Examine labels.
   Refer to the CL4NX HF Inlay Configuration Guide for what measurements you should take and what they mean, as well as a list of inlays and their required configurations.

2. Set up printer.
   A) Menu Settings
   B) Physical Antenna Position

Refer to the CL4NX HF Inlay Configuration Guide for more information.

- Explanation of RFID menu items

| Tag Offset | Distance to print on label BEFORE pausing to encode RFID. 
| Reader Model | Display model of installed RFID reader module. 
| Reader Version | Display firmware version of installed RFID reader module. 
| View | When selected printer will attempt to read the tag currently set in the printer. Select the memory bank from which to read information. "USER". "UID" 
| Retry Mode | Determine whether to retry encoding of failed data after error recovery. "Retry", "Release". The Release option deletes the current print job, allowing the printer to move on to the next print job. When Retry is selected, the printer will continue to attempt encoding the same data. 
| Retries | Number of failed encoding attempts before error warning/print pause. "0", "1", "9" 
| Mark Bad Tags | Mark bad tags with slash marks. "Enable", "Disable" 
| Non-RFID Warning | Allows interruption of printing when the items received do not contain an RFID issue command. If you have enabled the "Non-RFID Warning" settings in a printer that outputs RFID labels to be attached, 
| Log RFID Data | Record encoded tag information. "Disable", "Enable" 
| Output Error Mode | Allows the user to set the signal type for RFID errors. "Pulse", "Level" 
| Pulse Length | Allows the user to select the length of an RFID error pulse. This menu is displayed when the Output Error Mode is set in Pulse. "100ms", "200ms", "300ms", "400ms", "500ms" 

Counters

| Life time | Life time counter displays the number of encoding successes, failures, and total attempts. (Count Success, Count Failure, Count Total) 
| User | User counter displays the number of encoding successes, failures, and total attempts. (Count Success, Count Failure, Count Total) 

The counter can be reset using the right soft button (CLEAR) when the counter is 1 or higher.

* BOLD items are default settings.
3  Set Labels and Carbon Ribbon.
Refer to the sticker on the printer’s top cover, the help videos in the printer menu, and the Operator Manual for more information.

4  Confirm operation by printing/encoding a label.
Be sure to read the data and check that it is correctly encoded.

B) Physical Antenna Position
Adjust the physical position of the antenna according to the settings required for the specific label and inlay used.

RFID Printing Tips

A) Recommended no-print zone
Avoid printing barcodes or characters directly on top of an RFID chip. The uneven surface will negatively affect print quality.

B) Printing of RFID tag errors
The printer can be set to print an RFID tag error when there is a problem with the recorded data, for example in a write to a defective tag, in order to prevent accidental distribution of a defective label. Depending on the error and the print command paper size setting, a diagonal line or a cross will be printed, together with a description of the error.

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAG NOT FOUND</td>
<td>Tag cannot be found, or reading failed.</td>
<td>Confirm inlay operation and check printer/antenna configuration.</td>
</tr>
<tr>
<td>WRITE TAG ERROR</td>
<td>Writing failed.</td>
<td>Confirm inlay operation and check printer/antenna configuration.</td>
</tr>
<tr>
<td>PROTECT TAG ERROR</td>
<td>Cause 1: An attempt was made to write to a tag with the write lock set. Cause 2: An attempt was made to write to a non-writable address.</td>
<td>Use a label with the lock not set.</td>
</tr>
<tr>
<td>VERIFY TAG ERR.</td>
<td>The written value and the read value are not identical.</td>
<td>Confirm inlay operation and check printer/antenna configuration.</td>
</tr>
<tr>
<td>LOCKING ERROR</td>
<td>Cause 1: Lock processing failed because the label has been locked. Cause 2: Lock processing failed because the antenna output is weak.</td>
<td>Check if the label was locked and if the inlay antenna placement is correct.</td>
</tr>
<tr>
<td>WRONG TID ERROR</td>
<td>A tag type other than that specified in command data was detected.</td>
<td>Ensure that command tag type matches actual label/tag.</td>
</tr>
<tr>
<td>MULTI TAGS ERROR</td>
<td>Multiple tags captured simultaneously.</td>
<td>Confirm inlay operation and check printer/antenna configuration.</td>
</tr>
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Extensive contact information for worldwide SATO operations can be found on the Internet at www.satoworldwide.com