# CabineTRACK Tag Initializer



# Contents

Introduction ..... 3
CabineTRACK Components ..... 3
Control Unit ..... 3
Bar Code Scanner ..... 4
RFID Antenna ..... 4
Cabinet Component Sensor ..... 4
Stack Light ..... 5
Control Panel Display ..... 6
Startup Display ..... 6
Version Display ..... 6
Reserved for future use: ..... 7
Station State: ..... 7
Date Time Configuration: ..... 8
RFID Configuration: ..... 8
Production Tag Programming Count: ..... 9
Operating the CabineTRACK Tag Initialization Station ..... 10
Getting Started ..... 10
Scanning the item number ..... 10
Cabinet Component Tag Initialization ..... 11
Cabinet Component Tag Re-programming ..... 12
Cabinet Component Tag Verification ..... 12
Two Tags in the field ..... 12

## Introduction

This document is intended to guide the user through the steps required to program RFID tags attached to cabinets. Additionally the various displays on the control panel are reviewed and described.

## CabineTRACK Components

The CabineTRACK Tag initializer consists of the following components:

### Control Unit

The control unit houses the main components needed to program and control the Initialization of RFID tags. This is also where changes are made when necessary for the operation of the unit. CAUTION: Changes to this unit should only be made at the recommendation of a Northern Apex engineer.



## Bar Code Scanner



The bar code scanner is used to scan the Item ID that will be programmed to the RFID tag.

## RFID Antenna

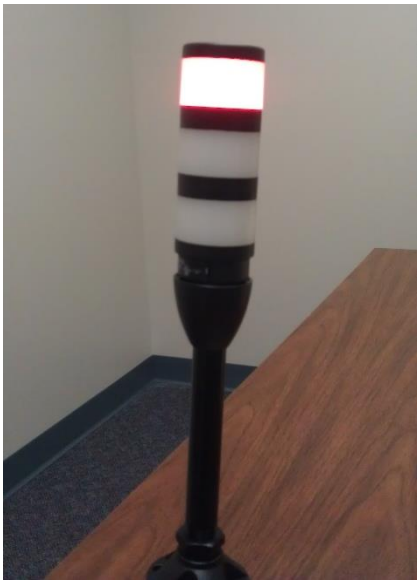


The RFID Antenna is used to communicate with the RFID tag that is installed on the cabinet component. The RFID tag should be in close proximity to the center of the antenna when attempting to program a tag while also triggering the sensor.



## Cabinet Component Sensor

The component sensor is used to determine if a component has entered the area and is ready to be programmed.



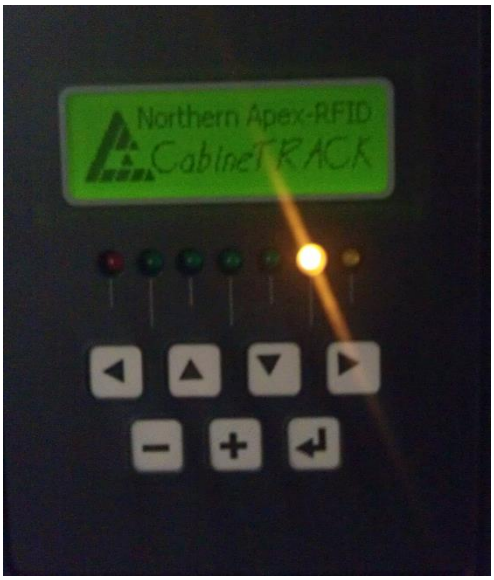
## Stack Light

The Stack Light visually communicates the status of the status of the Tag Initialization and the success or failure of the RFID Tag programming.

## Control Panel Display

The control panel can display various views that can be used to configure various components and communicate the state of the Tag Initialization process. Following graphics identify the various control panel views. To cycle through the displays press the up or down arrow.

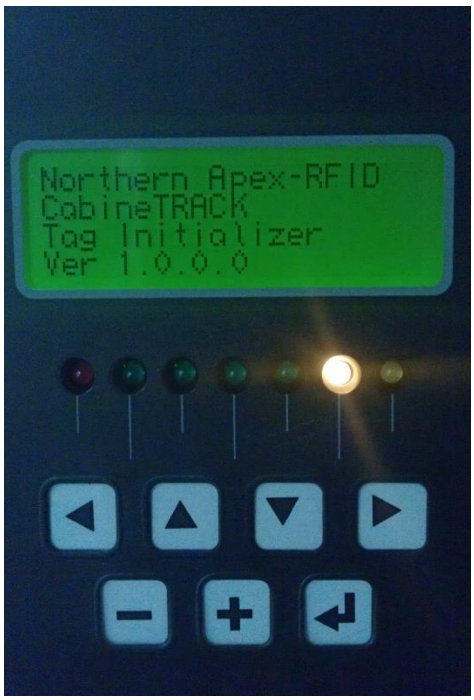
### Startup Display




When the unit is powered on a series of system initialization and checks are performed. Once these steps have been completed the Startup display is shown.

This view displays at startup and will only change when the up arrow or down arrow is pressed.

### Version Display




The version display show the applications name and product version. The may be required in the event of application support from Northern Apex.

## Reserved for future use:




The follow display has no functionality at this time and is reserved for future use.

## Station State:




This displays the state of the Station, the RFID Reader and the Item # scanned from the Bar Code scanner that is written to the RFID Tag.

## Date Time Configuration:




Displays the current date and time and allows for editing.

To change press return and the field will be highlighted. Use the + or – key to change the value. Use the right or left arrow key to move between fields. Press Enter to save and exit.

## RFID Configuration:




Display the current RFID transmitting power and antenna and allows for editing.

To change press return and the field will be highlighted. Use the + or – key to change the value. Use the right or left arrow key to move between fields. Press Enter to save and exit.

## Production Tag Programming Count:




Counts the number of RFID tags that were programmed. Press the Enter key to reset the count. The count only resets when the enter key pressed, not when a new bar code is scanned.

# Operating the CabineTRACK Tag Initialization Station

Following is a description of operating procedures for Tag Initialization. When a tag is programmed for the first time a Tag Serial number is written to the tag. This is the only time this occurs. Re-programming the tag will only change the Item number.

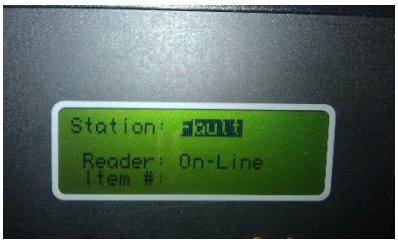
## Getting Started

Ensure that the control unit has power and all the peripheral devices are properly attached to the designated connections on the unit. Begin by turning the power switch to on.

The unit will cycle through a series of initialization and self-checks.



Once complete the top red light on the stack light will begin flashing and the Start Up display will be shown. Checking the Station State display will reveal that the unit is in a 'Fault' State. The station is waiting for the first item bar code to be scanned.




## Scanning the item number



Once the first bar code is scanned the all the lights on the light stack will be turned off, the Station State will change to 'Running' and the Item number scanned will be displayed. This item number will be programmed to each cabinet component presented to the antenna until another bar code is scanned.

## Cabinet Component Tag Initialization

Passing a cabinet component over the sensor and antenna will cause the sensor to “see” the component. This is indicated by the middle yellow light on the stack illuminating. When the sensor is triggered the tag must be near the center of the antenna.







The RFID reader will attempt to program the tag attached to the cabinet component. If the programming is successful the bottom Green light on the stack is turned on and the Production Count is incremented by 1.



The yellow light will stay on until the tag is written or until the component is removed for the sensor / antenna area.






An unsuccessful attempt will cause the top Red light to display. This step can be repeated until the tag has been successfully programmed or the tag is deemed defective.

## Cabinet Component Tag Re-programming

A cabinet component that has already been programmed can be re-programmed by simply passing the component over the RFID antenna and sensor. The light stack will display green for a successful event; red for failure. The production counter will increment by 1 each time a component is re-programmed.

## Cabinet Component Tag Verification

A components tag programming can be verified by passing the component over the sensor / antenna. Be sure the correct item number has been scanned prior to the verification attempt. A successful verification is indicated by the Green light. If the component does not have the correct item number programmed on the tag, it is immediately written to the tag. The production count will only increment if the tag is re-programmed.

## Two Tags in the field

If a cabinet component is presented to the sensor / antenna with more than 1 tag attached the yellow light will be displayed and the red light will flash rapidly. Remove the component from the programming field and then remove the additional tag(s) and re-try.