

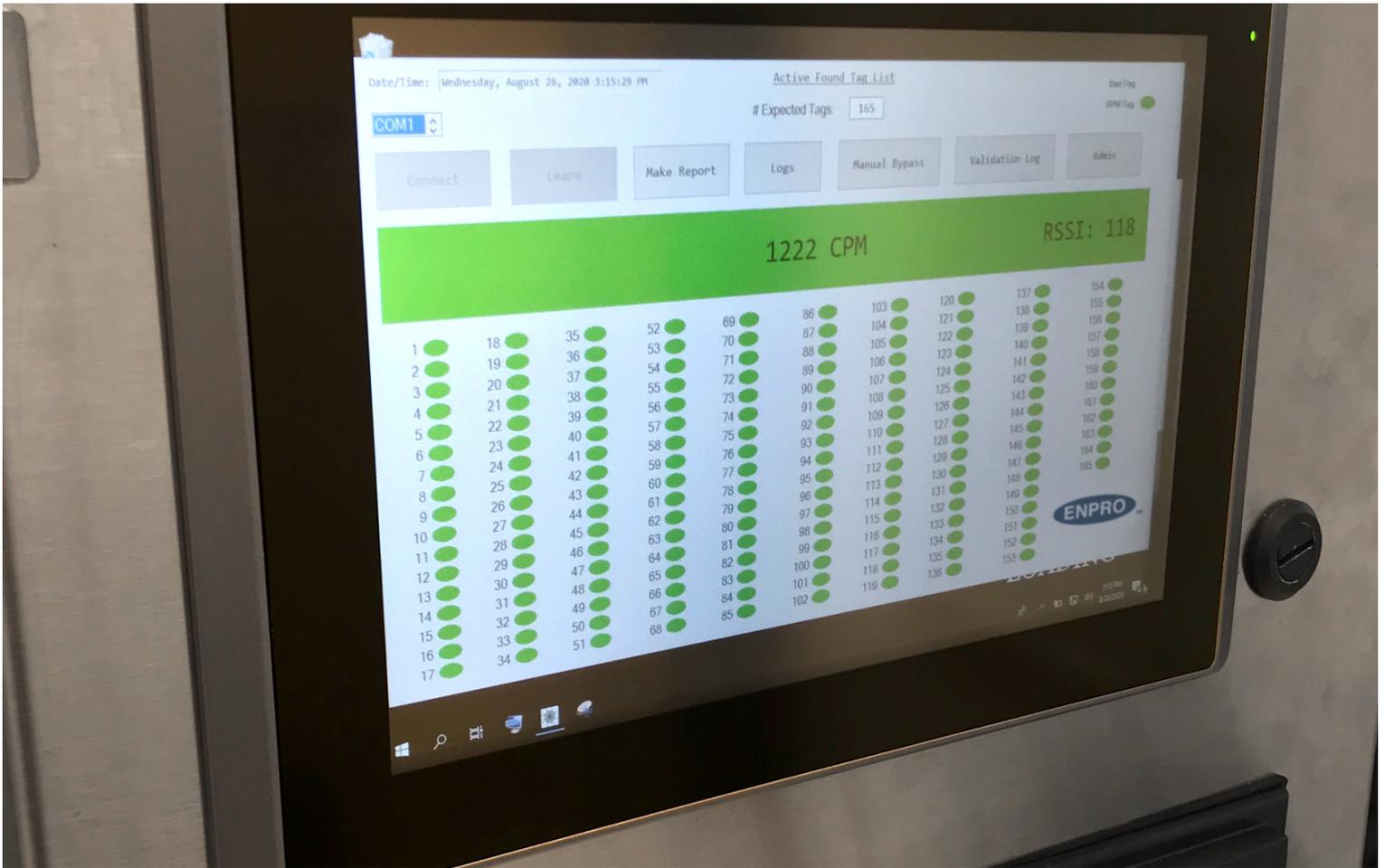


Operations Manual:

# Filler Vent Tube Reader

REV 081523





# INTRODUCTION

The Enpro Filler Vent Tube Reader Touch Screen (FVTR-TS) is a high-speed RFID reader that records each RFID tag present in the filler vent tubes or traceable pills in real-time during the filling process. A record of the tags are collected instantaneously and stored in a database on the connected PC using Enpro proprietary software, to increase reliability, safety, and productivity on your bottling line.

## ANTENNA POSITION AND OPERATION

Once your antenna is in place make sure to follow these important steps to ensure it is functioning properly and safely.

### Antenna Positioning:

Optimal antenna position is 1/2" or 1/4" below center of filler valve. (See top image at right)

### Status Bar Colors:

#### Antenna Extended

The antenna is extended if any of these color bars are on the screen.



#### Antenna Retracted

The antenna is retracted if system includes retractable antenna option and it is in CIP mode or manual bypass.



### Installing CIP Caps:

**FVTR-TS MUST BE IN CLEAN-IN-PLACE MODE (BLUE COLOR BAR) BEFORE INSTALLING CIP CAPS.**

Once CIP Caps are removed, make sure that system is not in CIP mode before Initializing.

### Operating Results:

RSSI reading of at least 70 should be read on the Touch Screen or adjust antenna position.

## ON-SCREEN COLOR INDICATORS

The status bar colors on the screen give the current, real-time status of the FVTR-TS system. The following are the color codes:



### **BLUE**

Clean-In-Place  
(Filler can Run, Detection Disabled)



### **GREEN**

All Clear, Ready, OK, All Vent Tubes Seen  
(Filler can Run, Detection Enabled)



### **YELLOW**

Initializing (reading required number of required tags)  
(Filler can Run, Detection Enabled)



### **RED**

Vent Tube Missing or System Error  
(Filler cannot Run, Detection Disabled)



### **PURPLE**

Manual Bypass  
(System in bypass mode)



### **OFF**

No Screen Power  
(Detection Disabled)

## START UP – INITIALIZE ( YELLOW STATUS BAR)

### Step 1

Make sure ONLY and all Enpro/Dorcia Traceable Vent Tubes or Traceable Pills are securely installed (and flat/color side down) .

*NOTE: If new traceable vent tube or pill is added see "Adding a New Vent Tube or Pill" Instructions*

### Step 2

Check that the FVTR is **NOT** in Clean-In-Place mode and all CIP caps are removed. (BLUE status bar is NOT present).

### Step 3

On the computer, enter the number of expected tags in the given field.

### Step 4

Click "LEARN." System will require you to badge in (follow prompts on computer).

### Step 5

YELLOW status bar is present and filler can begin running, signaling that FVTR-TS is in initialization mode.

### Step 6

Allow the filler to rotate several revolutions to complete initializing "learning" sequence (status bar will turn from YELLOW to GREEN).

*NOTE: Step 4 above, "LEARN," needs to be done every time the vent tubes or pills are removed or replaced.*

### Step 7

Once initialization is finished, the GREEN status bar should be present indicating FVTR-TS system is OK.

*Note: At this point you should see an average RSSI reading of at least 70 on the screen.*

Once the ALL CLEAR, GREEN status bar is illuminated, the system is running properly.



Traceable Vent Tube



Traceable Pill

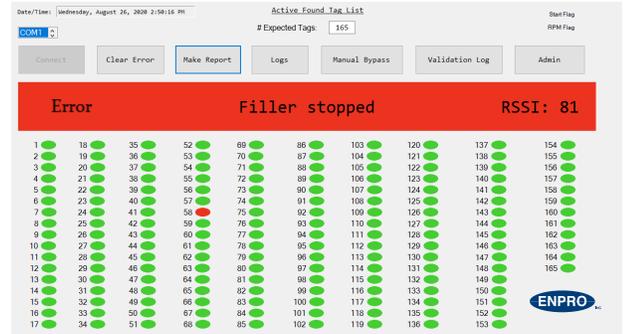
# VENT TUBE LOSS - SYSTEM ERROR ( ■ RED STATUS BAR )

## Step 1

In the event of a lost, broken, or malfunctioning vent tube or pill, the status bar will turn RED and indicate the Filler Vent Tube Reader is in "Error" mode. This is determined by several consecutive miss-reads of traceable vent tubes or pills.

## Step 2

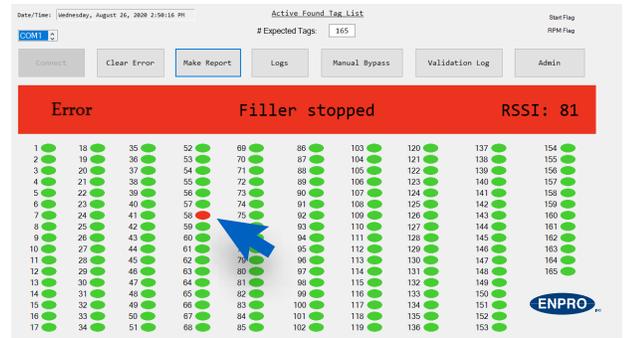
When a "Error" occurs, the filler will receive a signal and stop.



Step 1

## Step 3

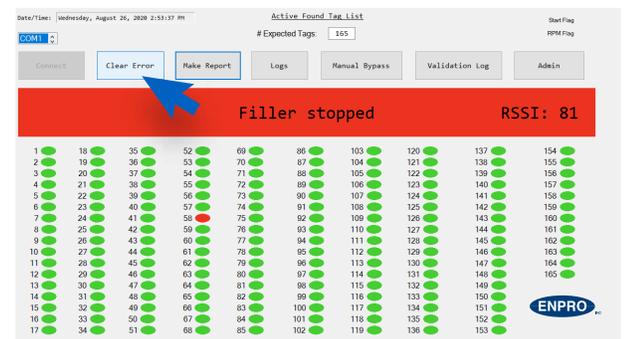
Determine why "Error" occurred. Check the screen to identify which traceable Vent Tube or Pill is missing or malfunctioned.



## Step 4

Click the CLEAR ERROR icon on FVTR-TS screen.

Step 3



Step 4

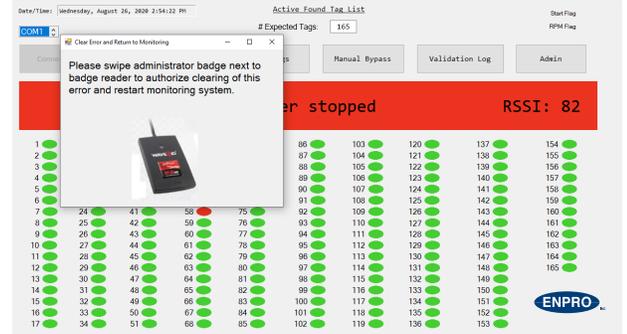
# VENT TUBE LOSS - SYSTEM ERROR ( ■ RED STATUS BAR) continued

## Step 5

To clear "Error" you will be prompted to scan your Authorized ADMIN ID badge. Follow prompts on the Touch Screen to clear the Error.

## Step 6

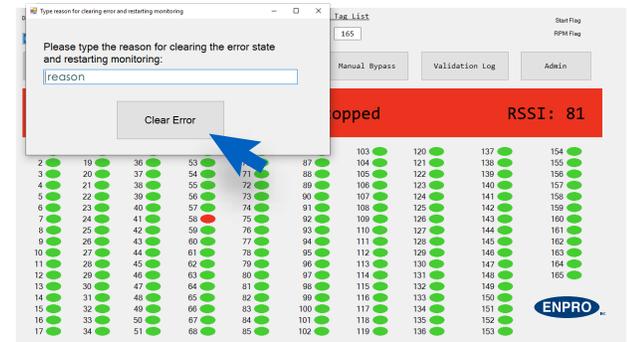
Swipe badge on pcProx WAVE ID badge reader.



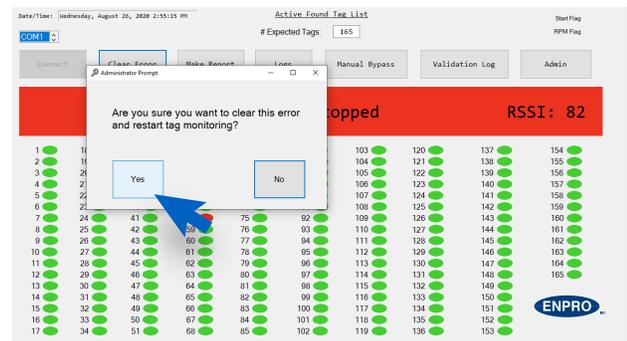
## Step 5

## Step 7

Follow prompts on the Touch Screen to clear "Error" condition.



## Step 7



## Step 7 continued

## ADDING A NEW TRACEABLE VENT TUBE OR PILL

### Step 1

First bring the filler to a complete stop, and install new traceable vent tube or pill (flat/color side down).

### Step 2

On Filler Vent Tube Reader Touch Screen, the system must now re-learn the new vent tube or pill sequence. With the new vent tube or pill installed, flat/color side facing down.

### Step 3

Click the “LEARN” button after new traceable vent tube is replaced

### Step 4

Make sure Filler Vent Tube Reader is **NOT** in Clean in Place mode (no blue status bar present on screen) and all CIP caps are removed.

### Step 5

When filler is running the yellow status bar is present, signaling that the Filler Vent Tube Reader is in initialization mode.

### Step 6

Allow the Filler to rotate several revolutions to complete initialization sequence. Every time the filler stops the yellow status bar will be present to signal reinitialization.

### Step 7

Once initialization is finished GREEN status bar should be present indicating the Filler Vent Tube Reader system is OK



Traceable Vent Tube

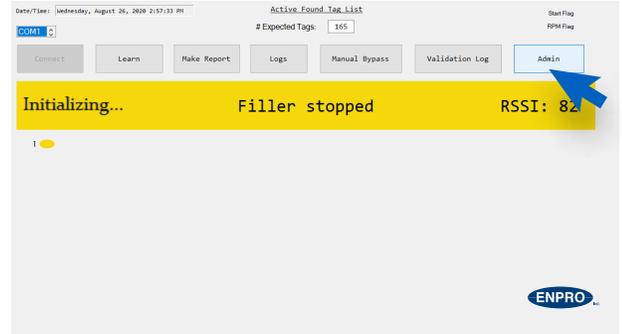


Traceable Pill

# ADDING A SUPERVISOR OR ADMINISTRATOR BADGE

## Step 1

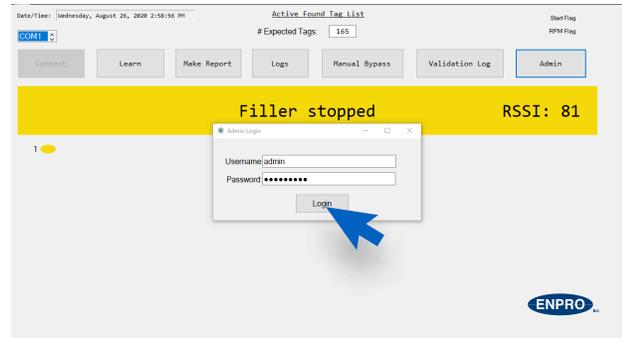
Click the **ADMIN** icon on the Enpro Touch Screen



Step 1

## Step 2

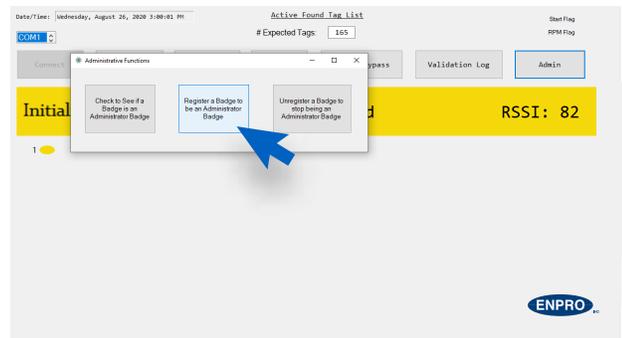
Type in:  
Username: **admin**  
Password: **EnproInc**



Step 2

## Step 3

Select **Register a Badge to be an Administrator Badge**

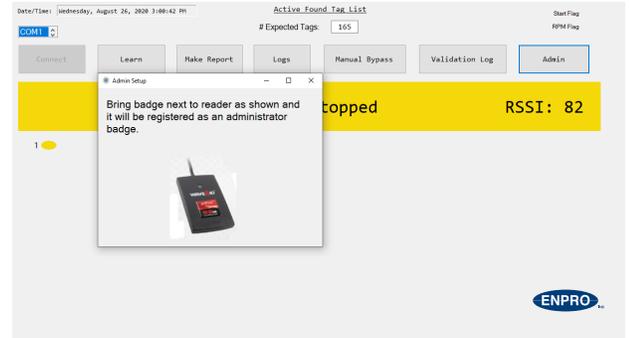


Step 3

# ADDING A SUPERVISOR OR ADMINISTRATOR BADGE continued

## Step 4

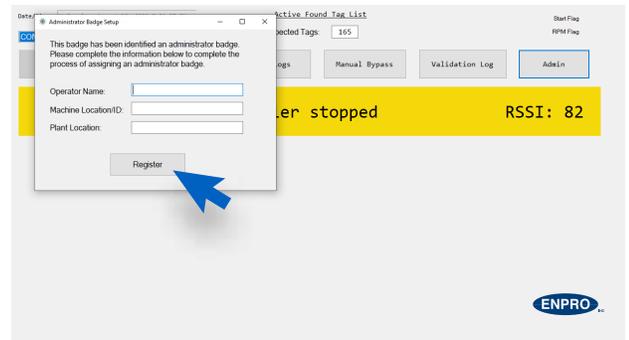
Bring the badge you wish to add as an ADMIN to the WAVEID badge reader



Step 4

## Step 5

Type Information into the required fields and once information is complete click **REGISTER**

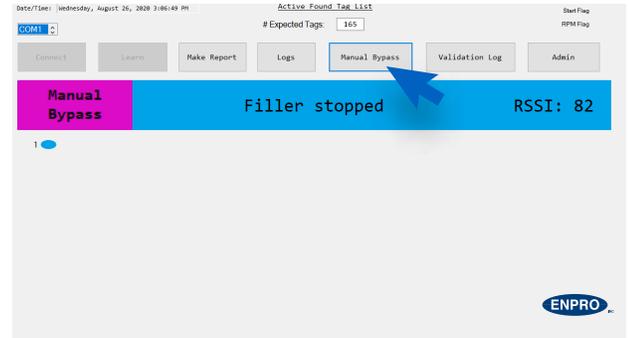


Step 5

# MANUAL BY-PASS OF THE FILLER VENT TUBE READER

## Step 1

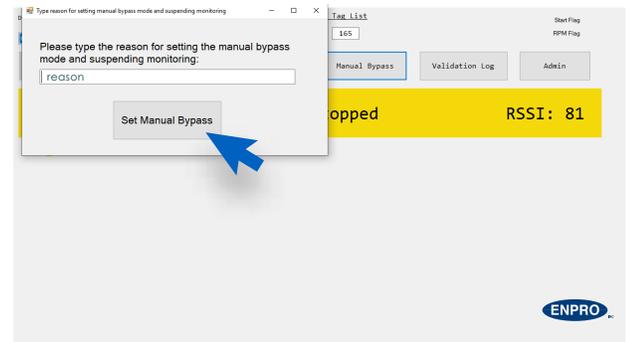
Select the **MANUAL BYPASS** button on the screen.



Step 1

## Step 2

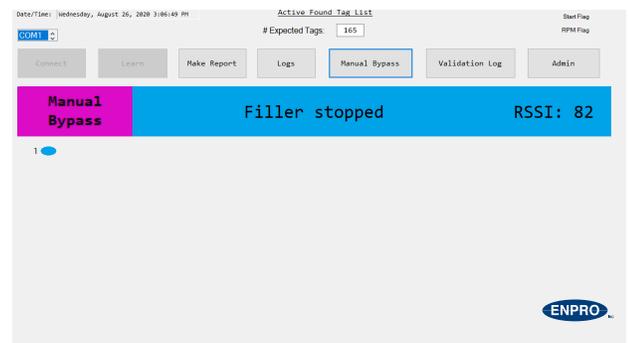
Scan your Authorized ADMIN ID badge, type the reason for placing the system into bypass. Select **SET MANUAL BYPASS**.



Step 2

## Step 3

The status bar will be present with a purple indicator and the FVTR-TS will REMAIN in Manual Bypass mode

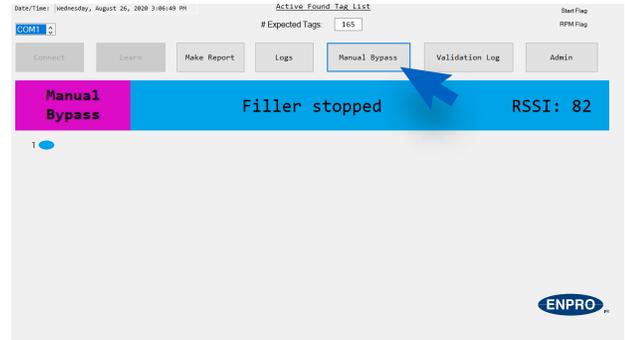


Step 3

## MANUAL BY-PASS OF THE FILLER VENT TUBE READER continued

### Step 4

To return to normal operation, select the **CLEAR MANUAL BYPASS** button again and follow the prompts on the screen.



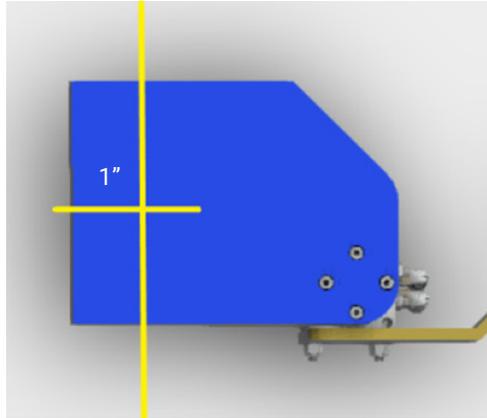
Step 4

# ANTENNA

## Alignment

### Step 1

Center antenna 1 inch (from the front and from the center) of the vent tube.



Alignment Step 1

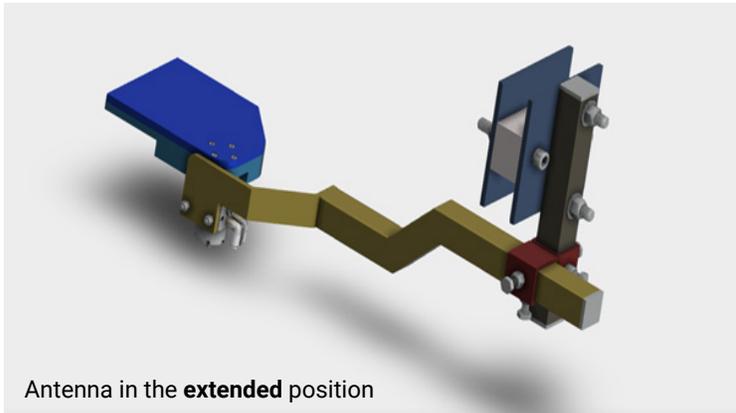
### Step 2

Position the antenna from 1/4 inch to 1/2 inch below the vent tube.

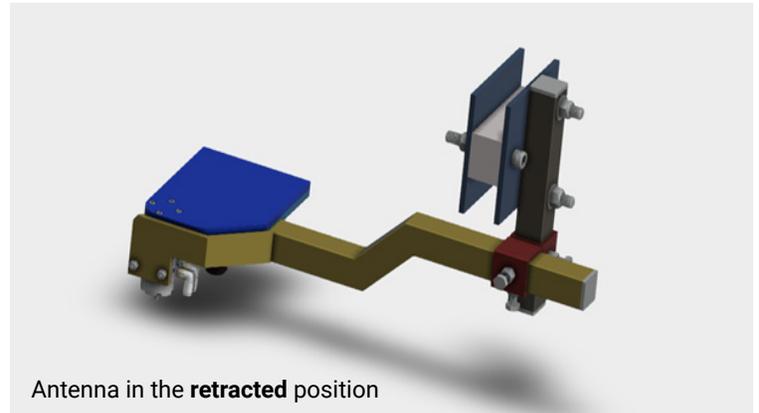


Alignment Step 2

## Antenna Positions



Antenna in the **extended** position



Antenna in the **retracted** position

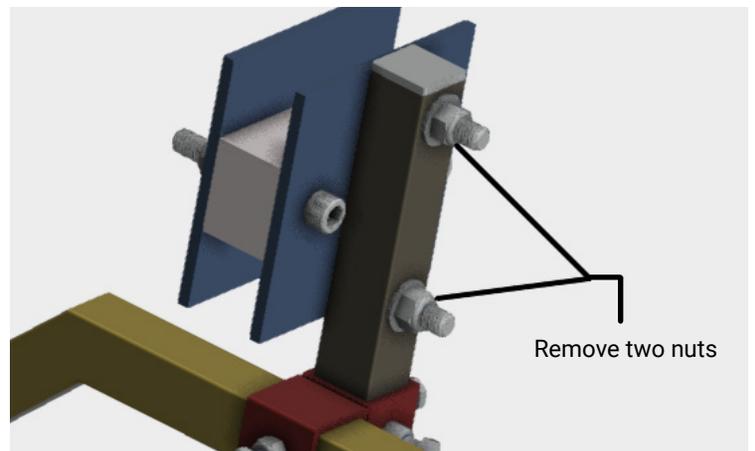
## Removing the Quick Release Antenna

### Step 1

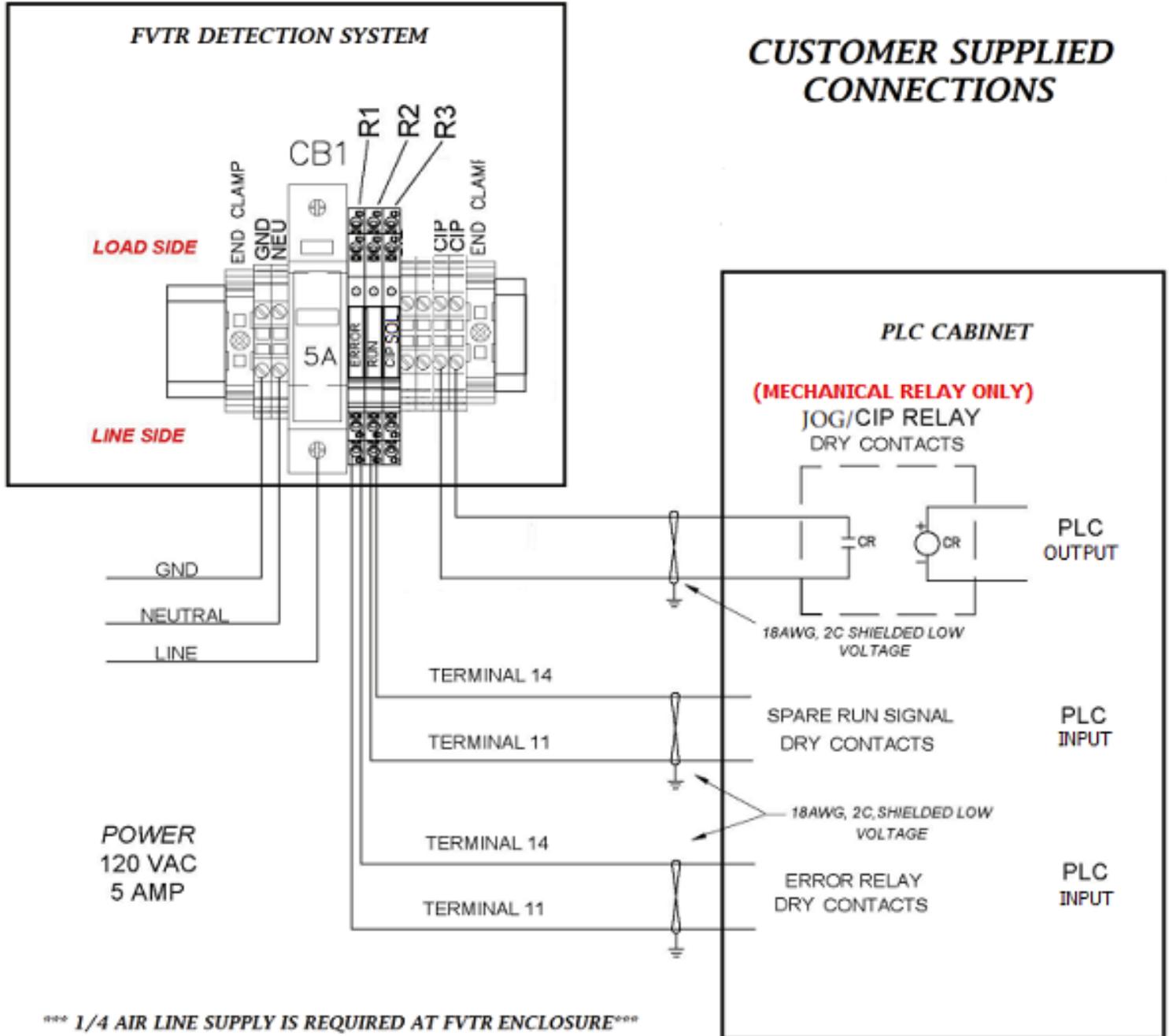
Remove the 2 Nylock Flanged nuts

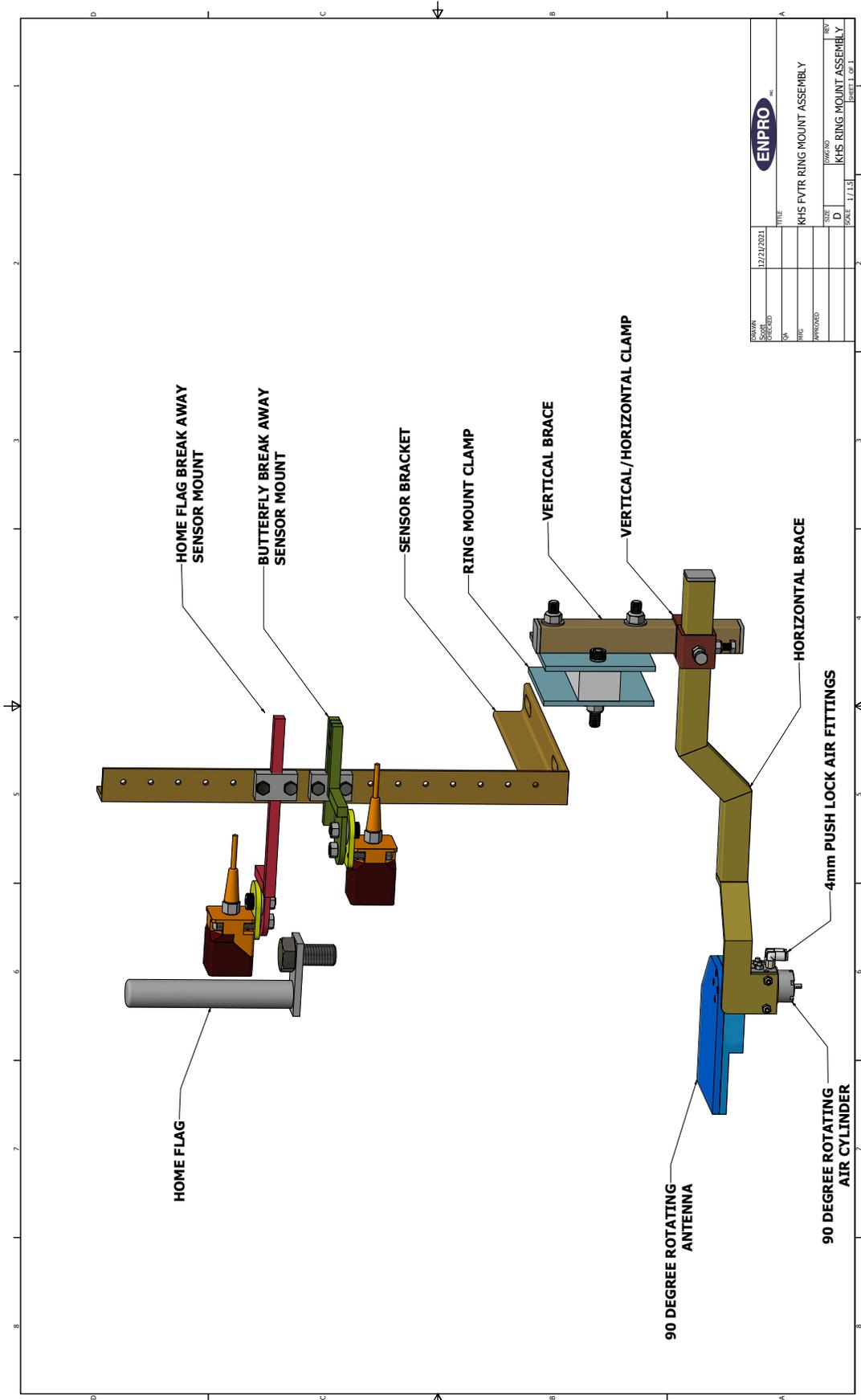
### Step 2

Slide the antenna assembly off of the two bolts



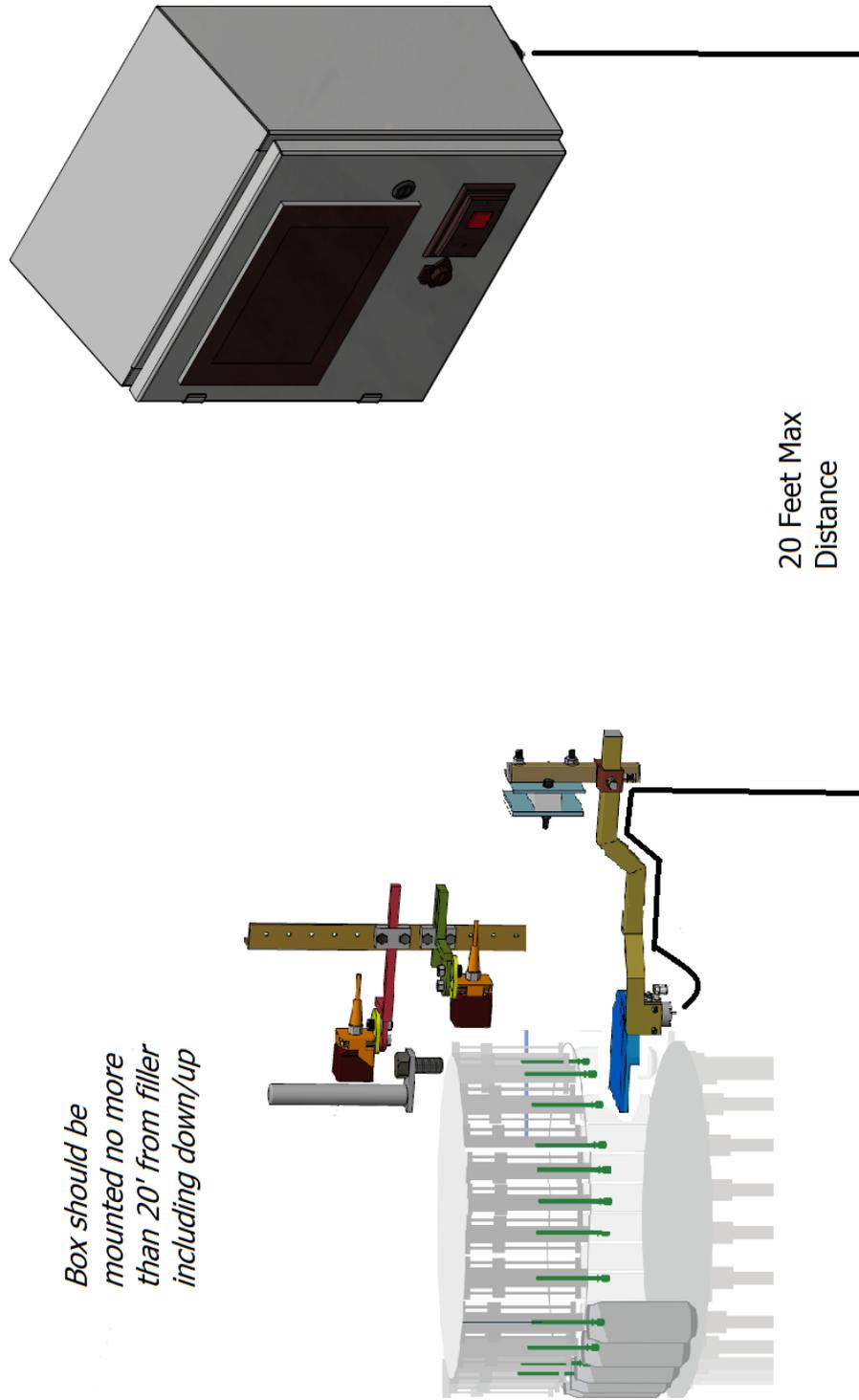
Quick Release Antenna Removal Step 1

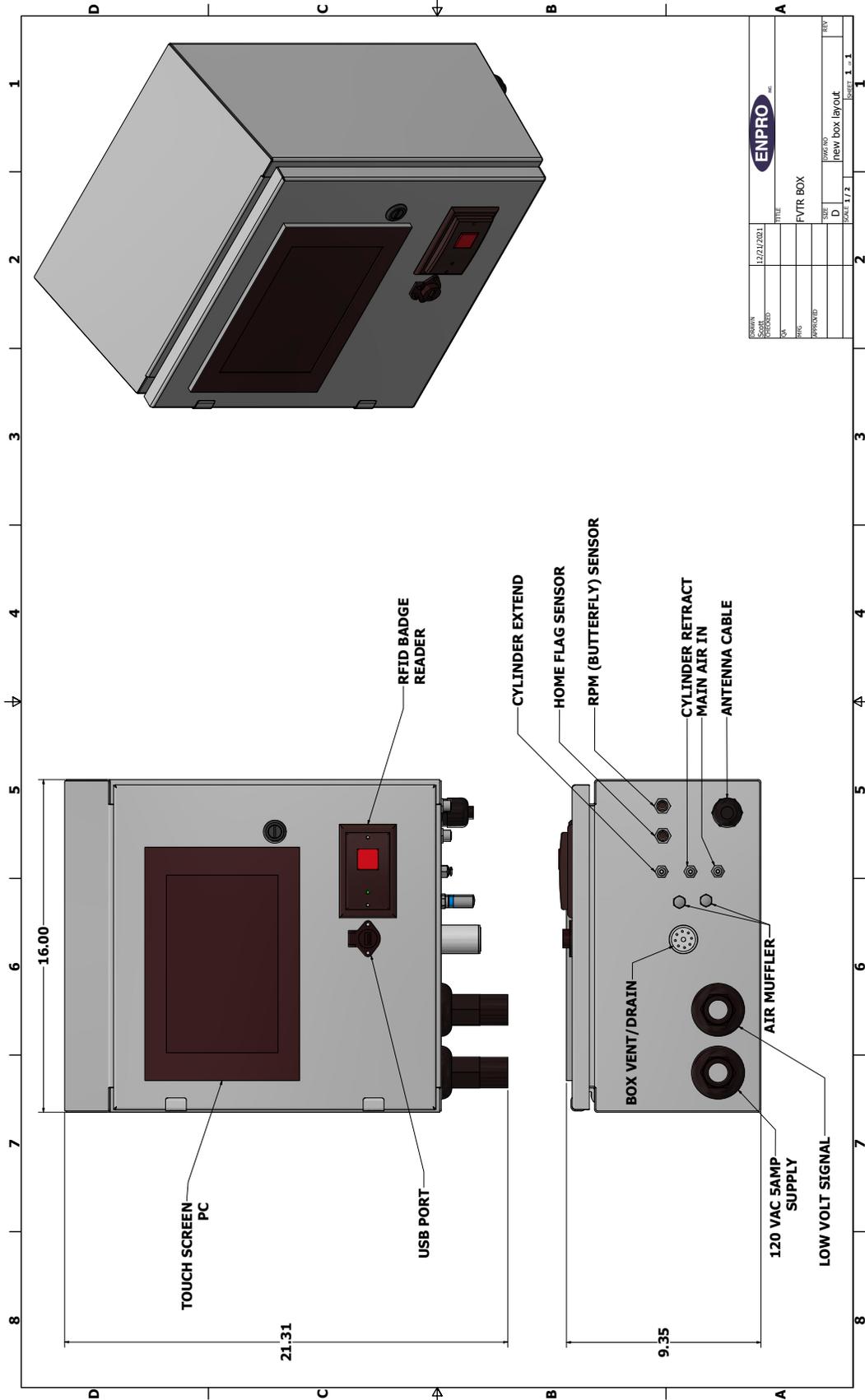




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			SHEET 1 OF 1

# ANTENNA ASSEMBLY





**FVTR BOX LAYOUT**

# SUPPORT

After reviewing this information, if you have any questions or concerns please do not hesitate to contact Enpro.

Thank you for your business!

Grant Cook

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