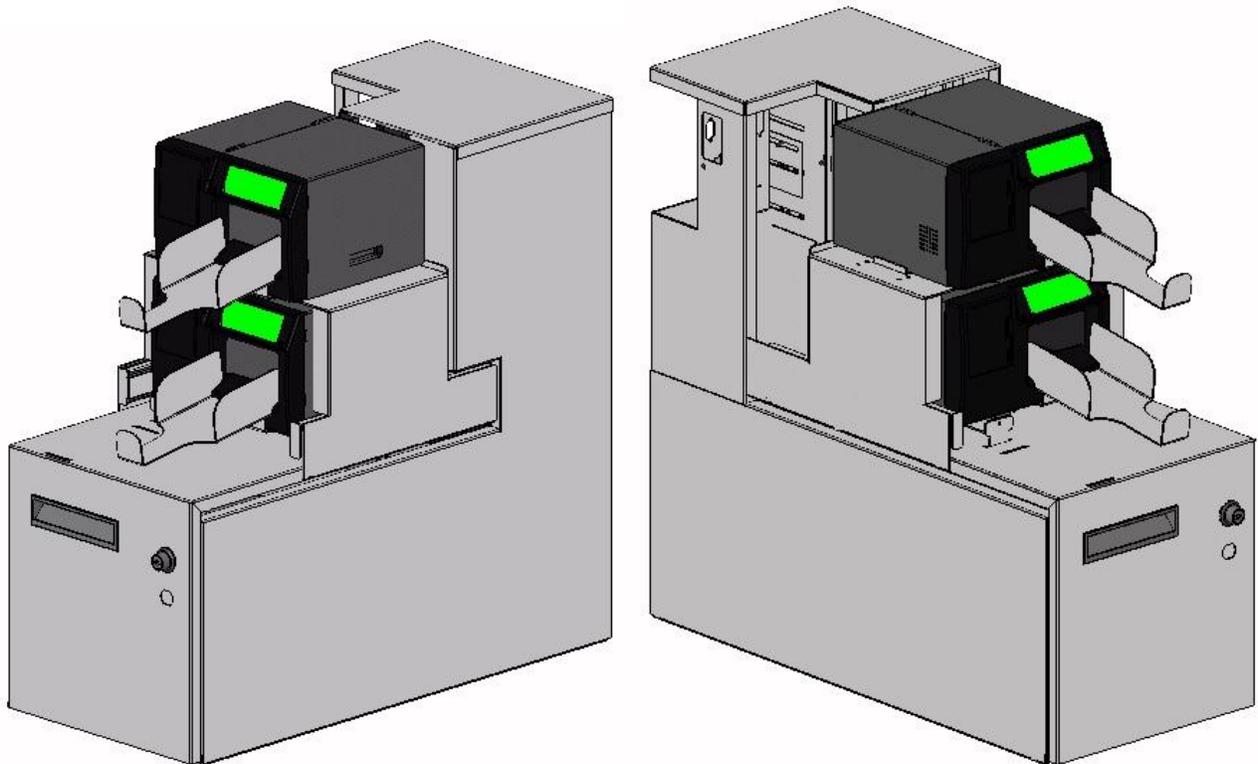




# *Dual Device Trolley*

## **Installation and Setup Manual**

P/N: 71U-1440-000K © 2012, REV 12



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The Dual Device Trolley contains no electrical components except for communication cables and a rated split power cable (or individual power cables).

The Dual Device Trolley contains no mechanical components or devices that create physical motion except for the independently tested printer devices.

## 1.0 Introduction:

The Dual Device Trolley – Right Side Path (hereafter referred to as the DT4000R) is a fixture intended for installation into standard airline counters. The DT4000R mounts two ET6500 devices and stores their respective stocks.

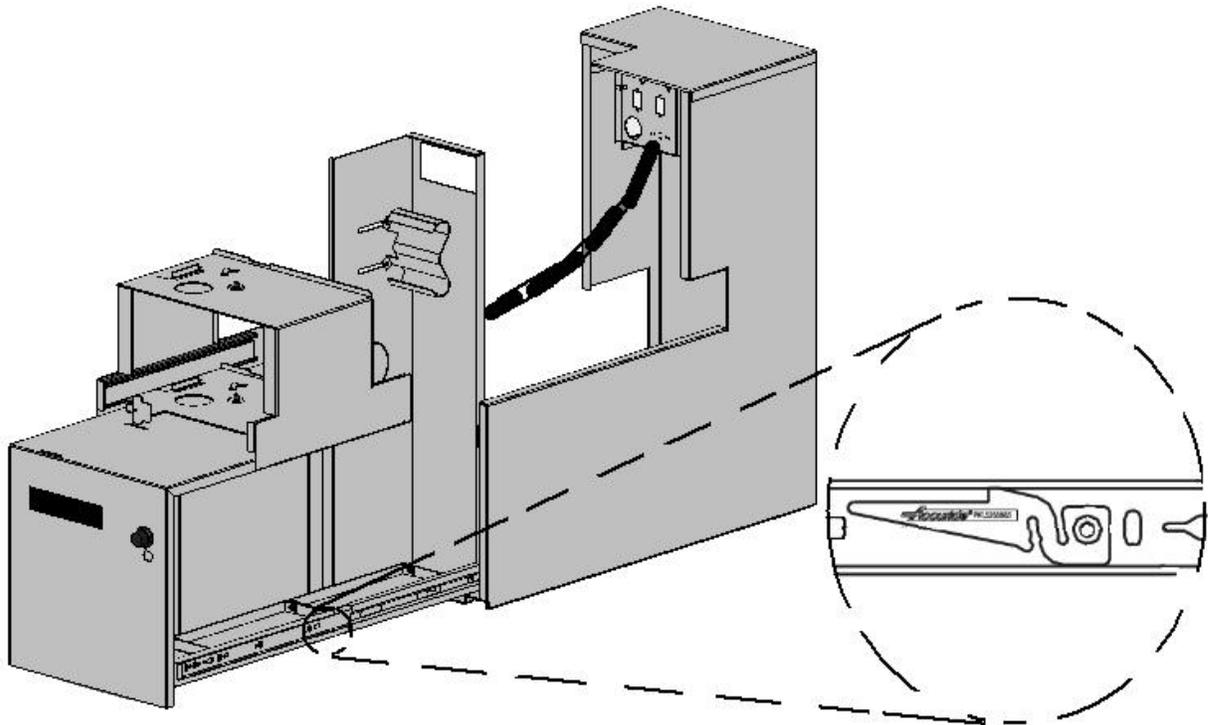
The DT4000R and the ET6500 units can be configured for two bag tag (BTP), two Ticketing / Boarding Pass (ATB – independent or daisy chained as one ATB device) or a combination of ATB and BTP devices.

The DT4000R provides the necessary interface connections to the ET6500 devices and a single AC input socket/split cable so that only one AC power connection is needed.

## 2.0 Separating the Sections:

**Note: Unimark recommends two service technicians for handling and installation of the DT4000R.**

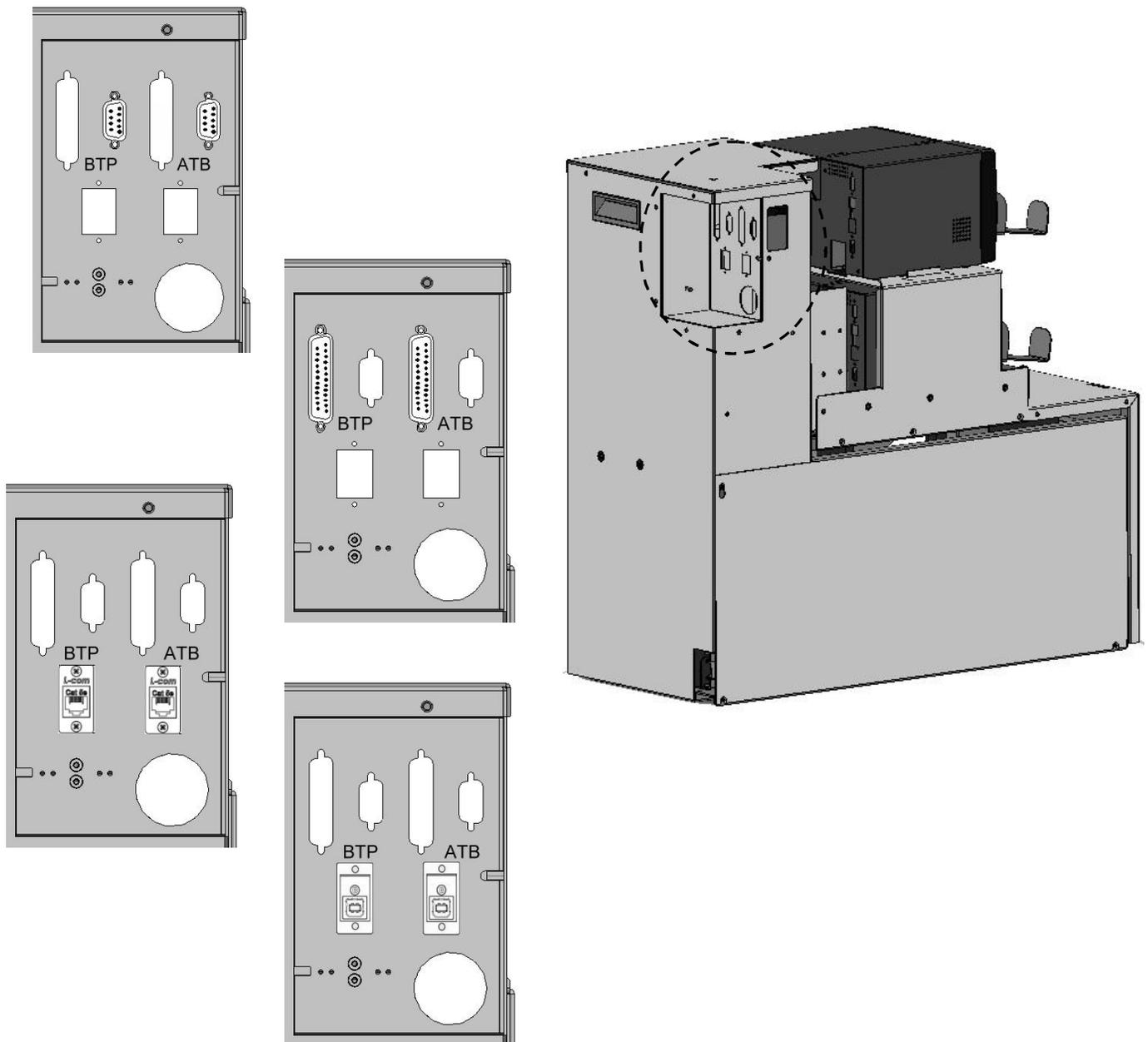
- 2.1 Remove the DT4000R from the shipping carton and place it on a flat stable surface.
- 2.2 Unlock the trolley and pull the Printer Mount section from the Base section.
- 2.3 Loosen the three screws holding the left side cover panel and remove it from the assembly.
- 2.4 Remove any accessory items from the stock area, such as catchers and rails for ATB configurations.
- 2.5 Locate the cable track mounting bracket on the Printer Mount section and remove the two screws securing it.
- 2.6 Locate the release lever on each rail and pull up on the left side and push down on the right side as indicated on the rail itself.
- 2.7 Finish pulling the Printer Mount section from the Base section and set it aside for now.



### 3.0 Mounting the Base Section

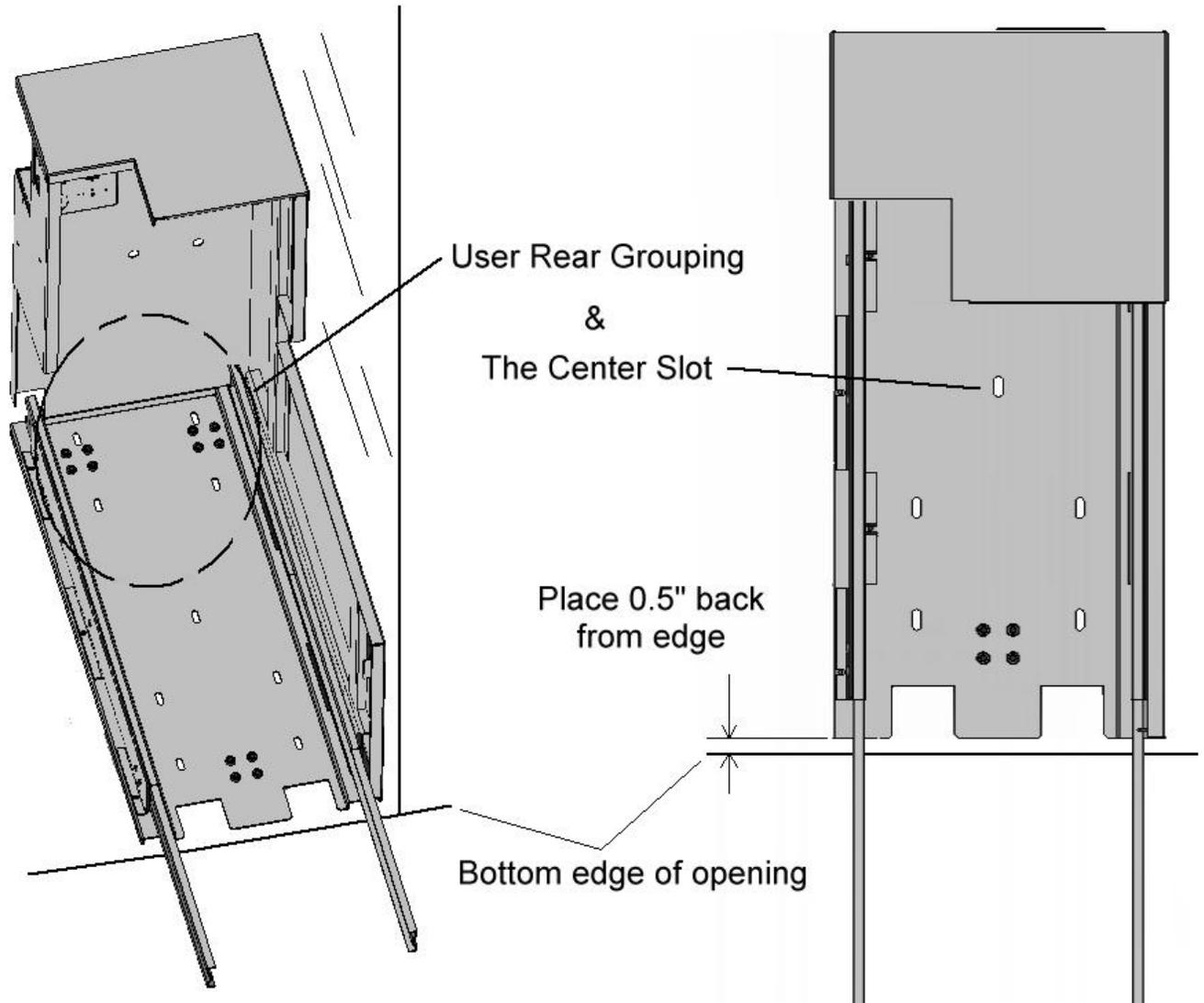
**Note: Unimark recommends two service technicians for handling and installation of the DT4000R.**

- 3.1 Connect the interface and power cables to the trolley connector box and power cable pig-tail.
- 3.2 Make careful note which connections are made to the back panel and where the final connection will be made and to which ET6500 printer.
  - 3.2.1 The daisy chained configuration will only have one host connection and will typically be unmarked.
  - 3.2.2 Individual printer connections will be marked on the back panel (ATB1 & ATB2, ATB & BTP, etc.).



Place the Base section of the DT4000R into the counter.

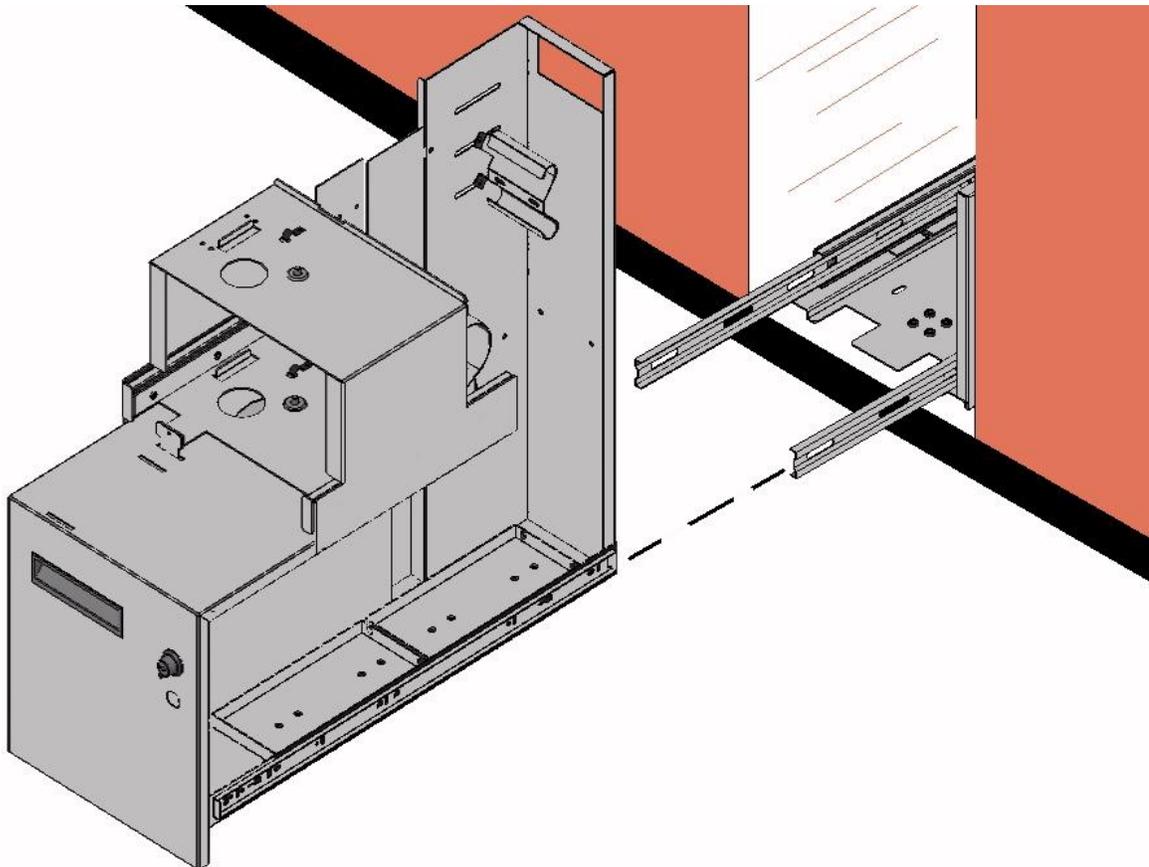
- 3.3 Locate the front edge parallel with the counter opening and 0.5 (½") back from the counter edge. This is the thickness of the front panel and will position the front panel even with the counter opening once the installation is complete.
- 3.4 There are nine (9) slotted holes provided for mounting the Base section, however it is recommended that the rear grouping and the center hole be used, leaving the front hole group for special cases only. There are two reasons:
  - 3.4.1 If the base the trolley is being mounted to is not completely flat, it can cause the front of the trolley to warp slightly and affect the latching mechanism (specifically the keeper bracket location with relation to the lock mechanism).
  - 3.4.2 The trolleys weight will be centered toward the front of the trolley, (where the printers are located) and when the pullout section is extended the center of gravity will be extended far beyond the mounted section. Mounting the base section by the rear and center holes will provide the best weight distribution.
- 3.5 After locating the Base section, secure it at a minimum of three (3) locations.



## 4.0 Installing the Printer Mount Section

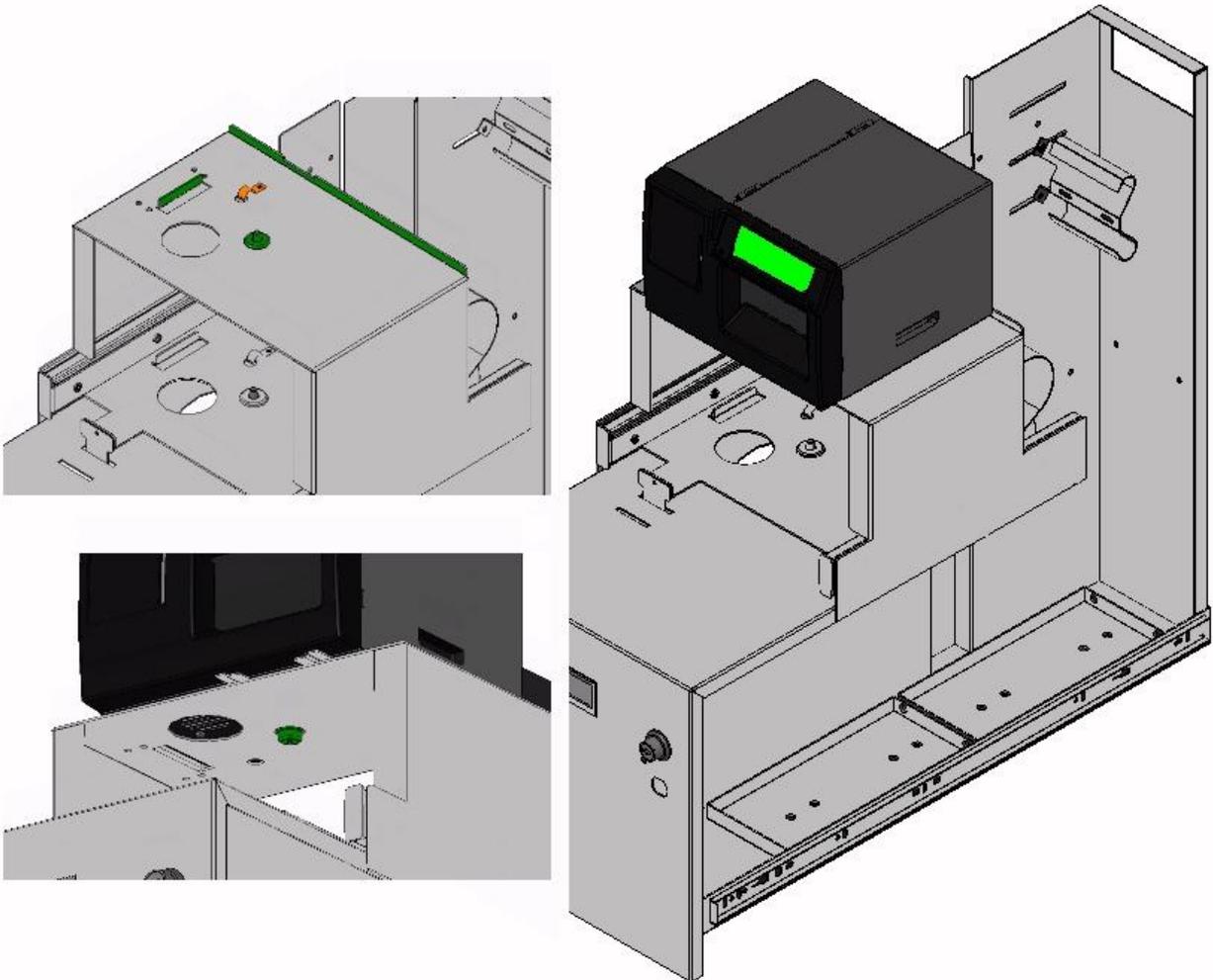
**Note:** Unimark recommends two service technicians for handling and installation of the DT4000R.

- 4.1 Re-install the left side cover panel onto the assembly – if there is room or accessibility to the left side after the Printer Mount section is re-installed, the cover panel can be installed at a later time.
- 4.2 **Position or hold the cable track (attached to the mounted section) so that the pullout section will not crush it as it is installed.**
- 4.3 Align the rails of the Printer Mount section to the rails on the Base section.
- 4.4 This step will probably take two personnel to align the rails and help guide them together. A process which must be done nearly simultaneously on each side of the DT4000R.
- 4.5 **CAUTION:** Watch the cables / track as the Printer Mount section is slid into the Base section so that they are not twisted and broken or crushed.
- 4.6 The process of fully sliding the Printer Mount section into the Base section will lock the rails back together.
- 4.7 Once this is done the rails will remain intact and the two sections will remain together unless intentionally detached from each other again.
- 4.8 Using the two screws removed in section 2.0, place and secure the cable track mounting bracket onto the Printer Mount section.



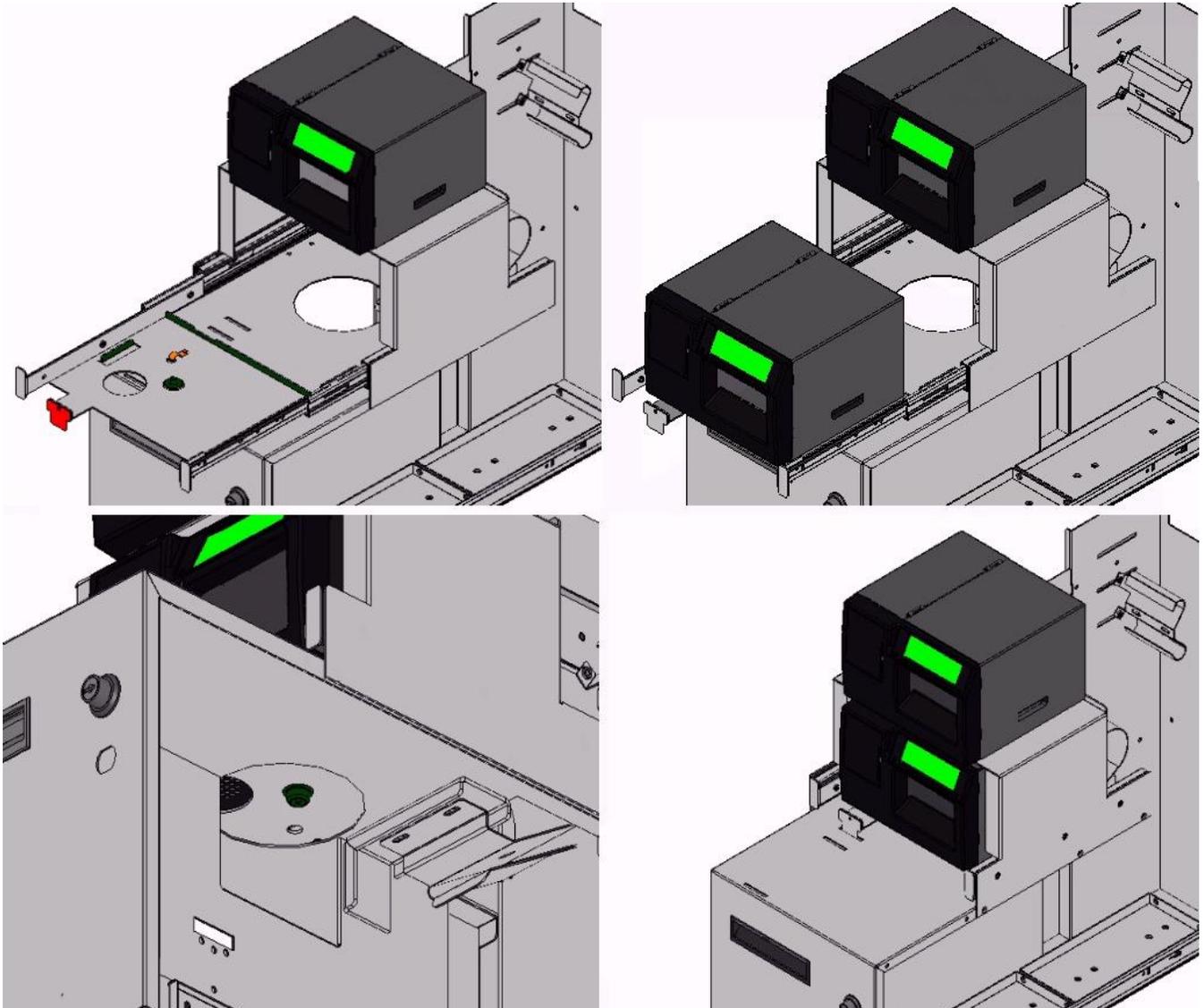
## 5.0 Installing the Top ET6500

- 5.1 The ET6500 is equipped with a centrally located integrated nut or threaded hole for securing it to compatible designs or equipped devices such as the DT4000R
- 5.2 Always check the physical condition of the copper grounding tab as this is needed to guarantee that the ET6500 and the DT4000R will be at the same electrical potential.
- 5.3 Place the first (of two) ET6500 unit on the top device location. The Rear and left guides/tabs will help locate the ET6500.
- 5.4 Reach under and tighten the thumbscrew until the ET6500 is secure.
- 5.5 Connect the appropriate interface and power cables to the ET6500.



## 6.0 Installing the Bottom ET6500

- 6.1 Installing the Top ET6500 will pull the mounting thumbscrew up out of the way of the Bottom ET6500 location. To maximize the space utilization the two ET6500 devices are very nearly stacked right on top of each other.
- 6.2 Rotate the bottom printer tray stop and pull it forward (see Appendix A for new stop design details).
- 6.3 Always check the physical condition of the copper grounding tab as this is needed to guarantee that the ET6500 and the DT4000R will be at the same electrical potential.
- 6.4 Place the second ET6500 unit on the tray. The Rear and left guides/tabs will help locate the ET6500.
- 6.5 Push the tray fully back and rotate the tray stop down into the position keeper slot.
- 6.6 Reach into the paper stock storage area and tighten the thumbscrew in the tray until the ET6500 is secure.
- 6.7 Connect the appropriate interface and power cables to the ET6500.



## 7.0 ATB Catcher Option

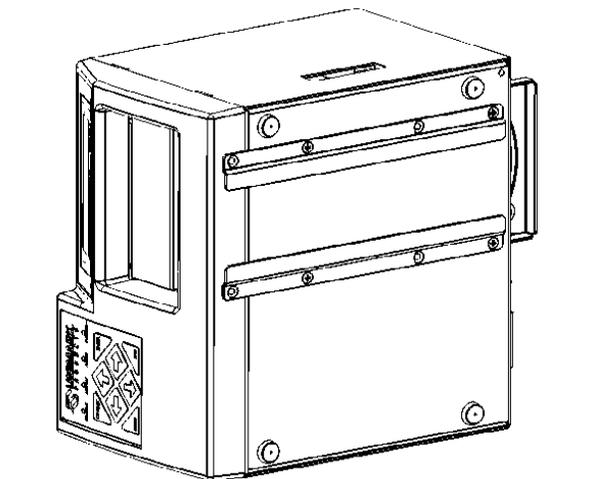
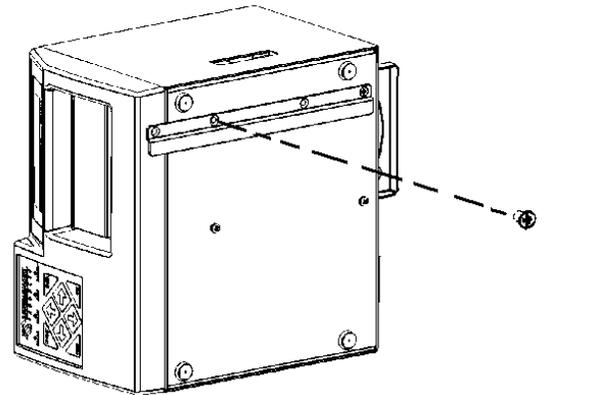
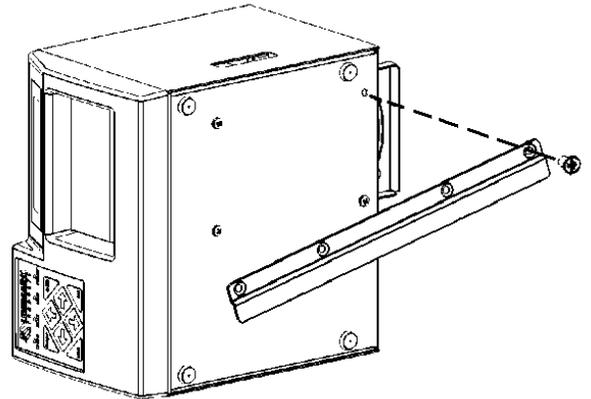
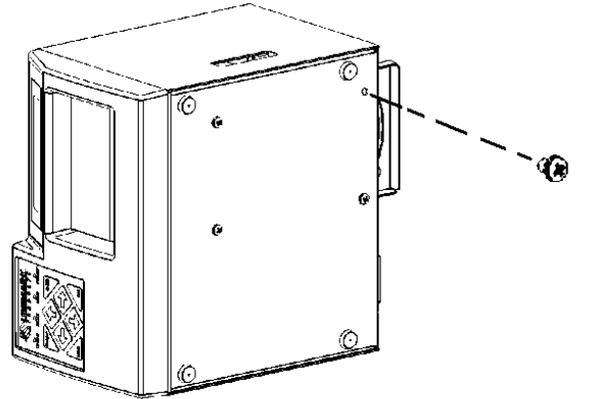
The ATB Catcher option is a simple non-mechanical subassembly (no moving parts) used to capture ATB coupons (receipt or card types) after they are printed and cut by the integrated Cutter option.

Check the ET6500 devices for these rails. They may be installed as part of a regular customer configuration, or may require installation at the time they are installed onto the DT4000R Trolley.

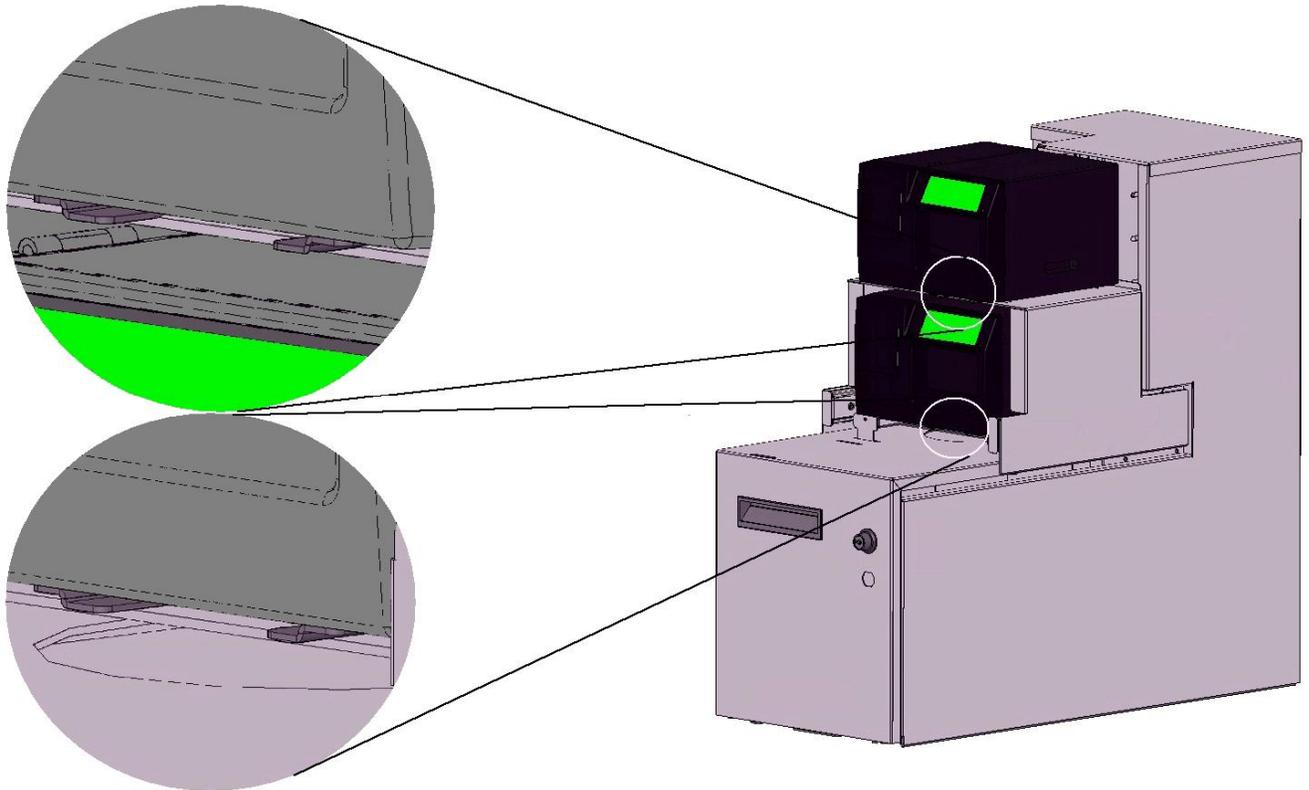
The Unit must already have the integrated Cutter option installed, or it must be installed by an appropriately trained service technician.

### To install the Catcher Slide Rails:

- 7.1 Power the Unit off 'O'.
- 7.2 Set the Unit on the electronics side panel so that the screws securing the print mechanism are elevated.
- 7.3 Remove the top-rear screw securing the print mechanism.
- 7.4 Align one slide rail with the rear of the unit and the open side facing down towards the center of the print mechanism paper path.
- 7.5 Install one flat head screw to hold the rail, and turn it until it stops. Do NOT tighten the screw yet.
- 7.6 Remove the top-front screw securing the print mechanism.
- 7.7 Rotate the slide rail towards the front of the unit and align with the other screw hole.
- 7.8 Install second flat head screw into the top-front location and tighten BOTH screws fully.
- 7.9 Remove the bottom-rear screw securing the print mechanism.
- 7.10 Align the other slide rail with the rear of the unit and the open side facing UP towards the center of the print mechanism paper path.
- 7.11 Install one flat head screw to hold the rail, and turn it until it stops. Do NOT tighten the screw yet.
- 7.12 Remove the bottom-front screw securing the print mechanism.
- 7.13 Rotate the slide rail towards the front of the unit and align with the other screw hole.
- 7.14 Install second flat head screw into the bottom-front location and tighten BOTH screws fully.



- 7.15 Once the rails are installed on one or both of the ET6500 devices they can be installed onto the DT4000R Trolley (detailed in previous section).
- 7.16 Locate the ATB catcher options supplied with the DT4000R Trolley.
- 7.17 Slide the tab of the first ATB Catcher into the front of the ET65000 Device mounted to the pull out tray (bottom location) just under the front cover and the opening where the documents exit when printed.
- 7.18 The slide rails form an opening at this point.
- 7.19 Slide the tab of the second ATB Catcher into the front of the ET65000 Device mounted to the top of the ET6500 Mounting Bracket just under the front cover and the opening where the documents exit when printed.

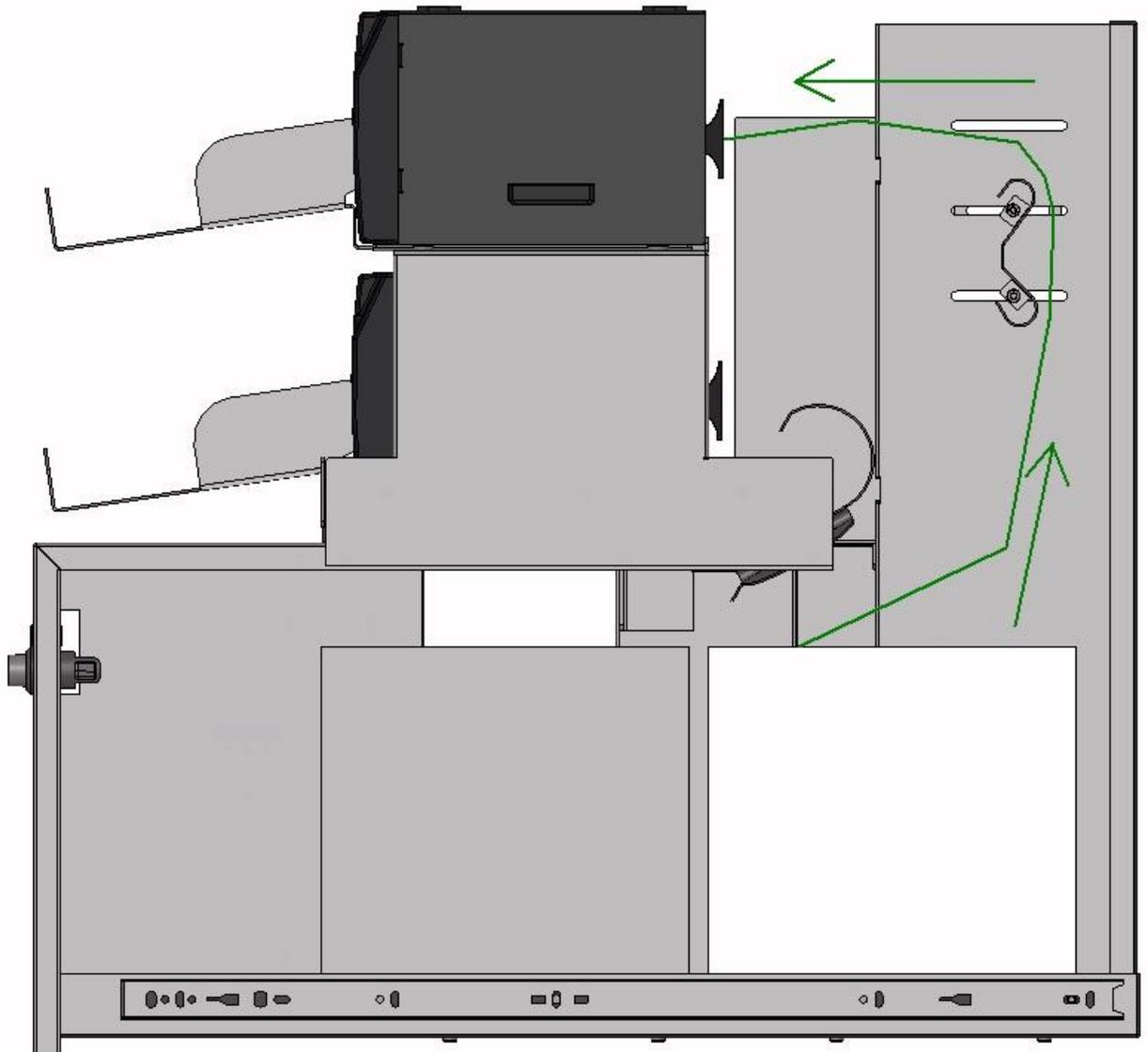


## 8.0 Stock Configurations

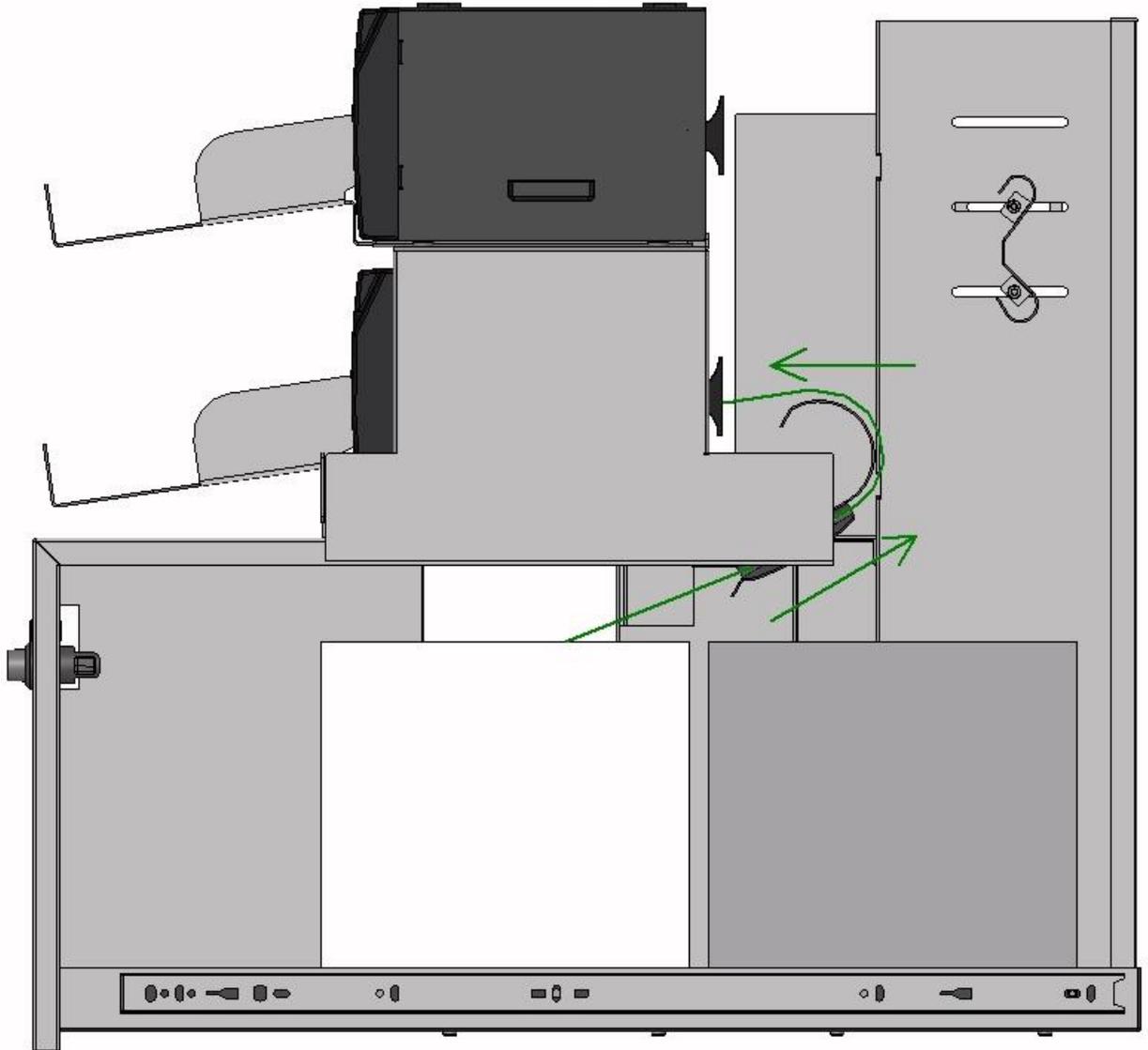
### 8.1 Standard Dual ATB with Catcher

This configuration uses two ET6500 devices with the cutter option used with catchers to retain the printed documents. The ET6500 devices could be connected to the host independently for printing boarding passes or daisy chained together to emulate a 2-bin ATB printer for printing boarding passes and ATB ticket coupons.

- 8.1.1 Stock for the Top ET6500 is stored in the rear tray and then routed up and around the top stock guide.
- 8.1.2 Place the ATB stock box in the tray so that the thermal surface is facing up as it enters the ET6500.
- 8.1.3 Turn the Top ET6500 on and insert the stock into the paper path guide to the platen. The ET6500 will load the stock in a few seconds.



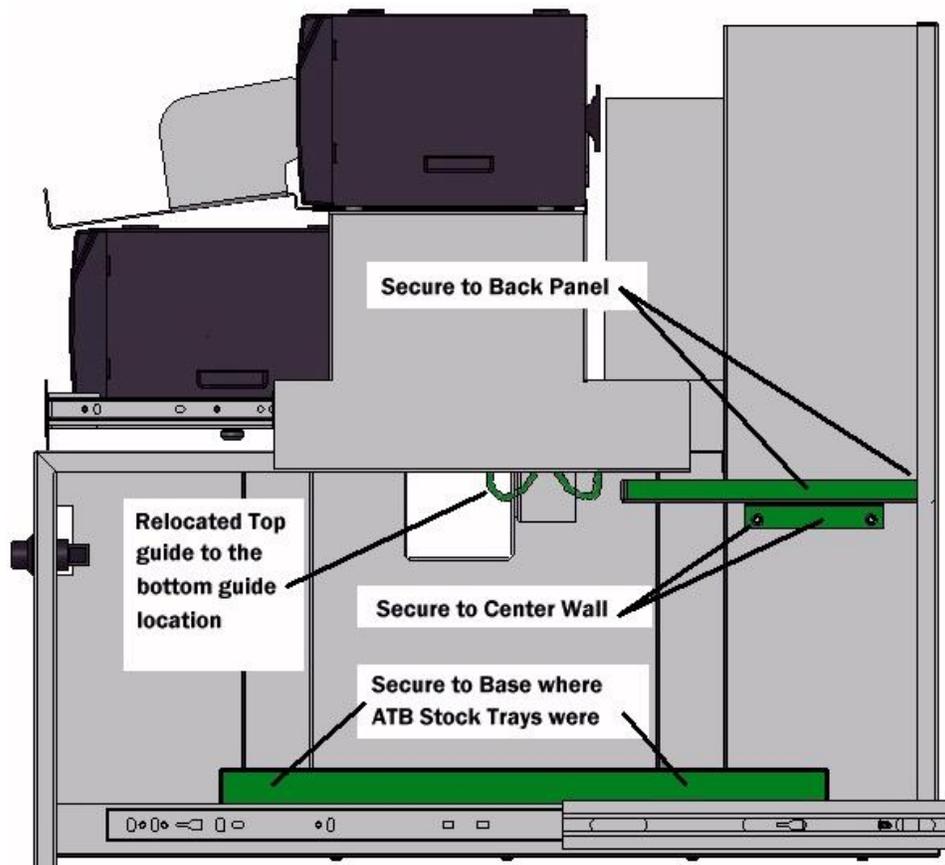
- 8.1.4 Stock for the Bottom ET6500 is stored in the forward to middle tray and then routed into the bottom stock guide. The stock will route around the large curve of the guide.
- 8.1.5 Place the ATB stock box in the tray so that the thermal surface is facing up as it enters the ET6500.
- 8.1.6 Turn the Bottom ET6500 on and insert the stock into the paper path guide to the platen. The ET6500 will load the stock in a few seconds.



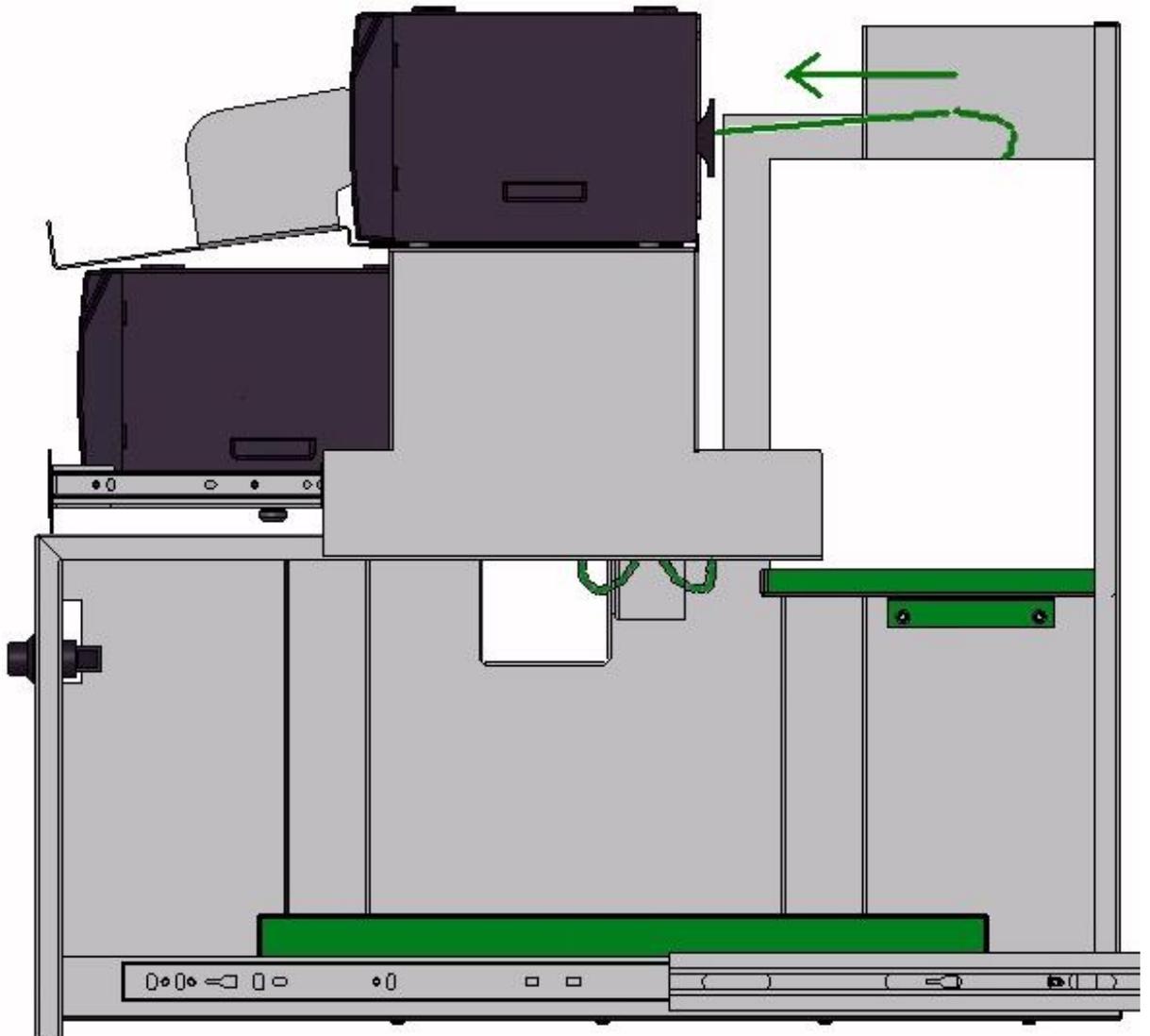
## 8.2 Standard ATB with Catcher & BTP

This configuration uses the Top ET6500 using the cutter option and a catcher to retain the printed documents. The Bottom ET6500 is positioned forward for baggage tag printing. In this configuration the ET6500 devices will almost certainly be connected to the host independently for printing boarding passes and baggage tags.

- 8.2.1 Remove the bottom paper path stock guide. **Retain it for future configurations.**
- 8.2.2 Remove the top paper path stock guide.
- 8.2.3 Install the top guide in the bottom location. This will now guide baggage tag stock around the edges of the opening in that area.
- 8.2.4 Remove both ATB Stock Box Trays.
- 8.2.5 Install the Baggage Tag Box Centering Bracket in place of the trays. This part will center the baggage tag box in the stock area and the stock path. Use the same hardware used to secure the trays.
- 8.2.6 Install the ATB Stock Box Tray support shelf into the center wall. Support shelf and screws provided in kit.
- 8.2.7 Install one of the ATB Stock Box Trays into the rear panel of the stock area just above the support shelf. Screws provided in kit.



- 8.2.8 Stock for the Top ET6500 is stored in the rear “elevated” tray and then routed up to the Top ET6500.
- 8.2.9 In this configuration the ATB box cannot be loaded from the right side opening.
- 8.2.10 Load the ATB Stock Box from above, behind the ET6500, straight down onto the elevated ATB Stock Box Tray.
- 8.2.11 Place the ATB stock box in the tray so that the thermal surface is facing up as it enters the ET6500.



- 8.2.12 Stock for the Bottom ET6500 is stored in the bottom of the stock area, centered by the bracket previously installed.
- 8.2.13 Install the box from the right side opening under the elevated ATB Stock Box Tray and over against the centering bracket.
- 8.2.14 Place the stock box in the stock area so that the thermal surface is facing up as it enters the ET6500.
- 8.2.15 The stock is routed up from the stock area between the newly located and installed stock guide and the elevated ATB Stock Box Tray.

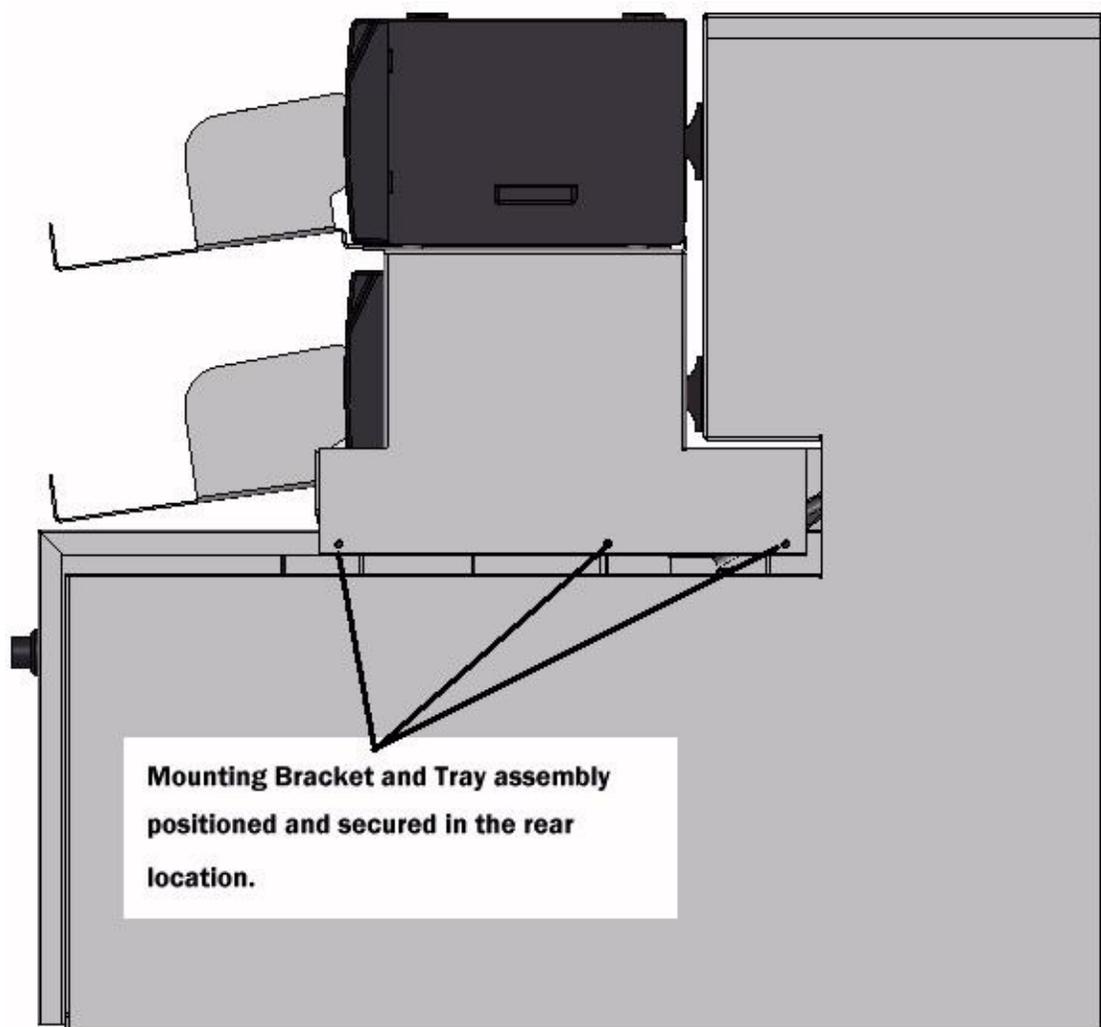


- 8.2.16 The model shown is for a single 1,000 baggage tag stack.
- 8.2.17 A dual 500 baggage tag stack box may also be used assuming standard 51mm width tags, or roll stock could be used with the optional roll arm mounted.

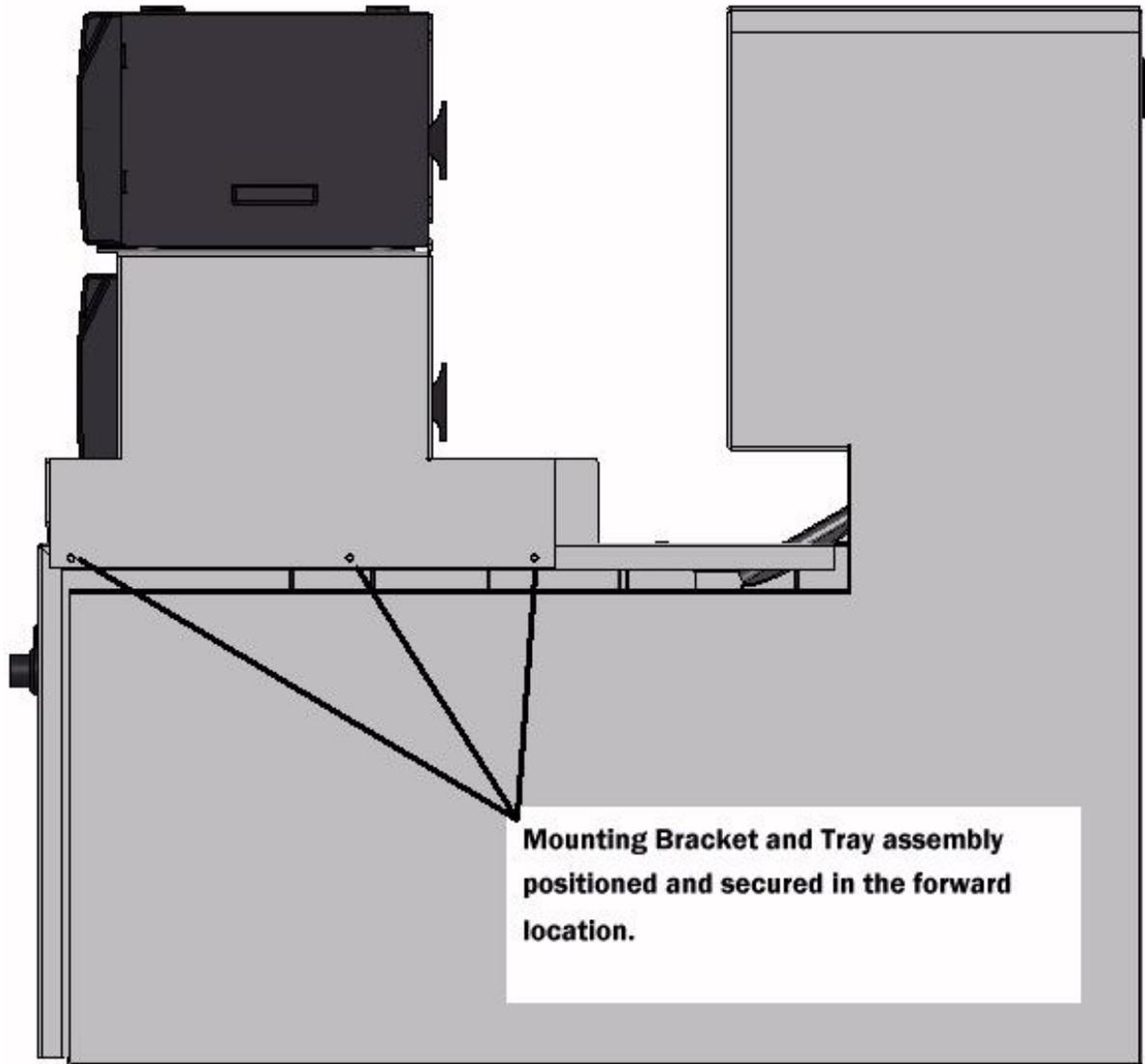
## 8.3 Standard Forward Device Configuration

This configuration mounts the ET6500 Mounting Bracket & Tray in the fully forward location. No catcher option would be used in this configuration because the units would be placed within 1.0" of the counter edge. The cutter would normally be disabled or ran in partial cut mode to retain the printed documents. All host to device interface combinations would be available, including individual ATB, individual BTP, ATB & BTP, two ATB Daisy Chained and even ATB and BTP Daisy Chained.

- 8.3.1 Remove the ET6500 units from the trolley.
- 8.3.2 Locate the silver GND strap on the left side at the rear of the left rear corner on the ET6500 Mounting Bracket and Tray assembly.
- 8.3.3 Remove the screw securing it to the Top of the Trolley. Set it aside for now.
- 8.3.4 Remove the six (6) screws securing the ET6500 Mounting Bracket and Tray assembly to the top of the Trolley. Set them aside for now.

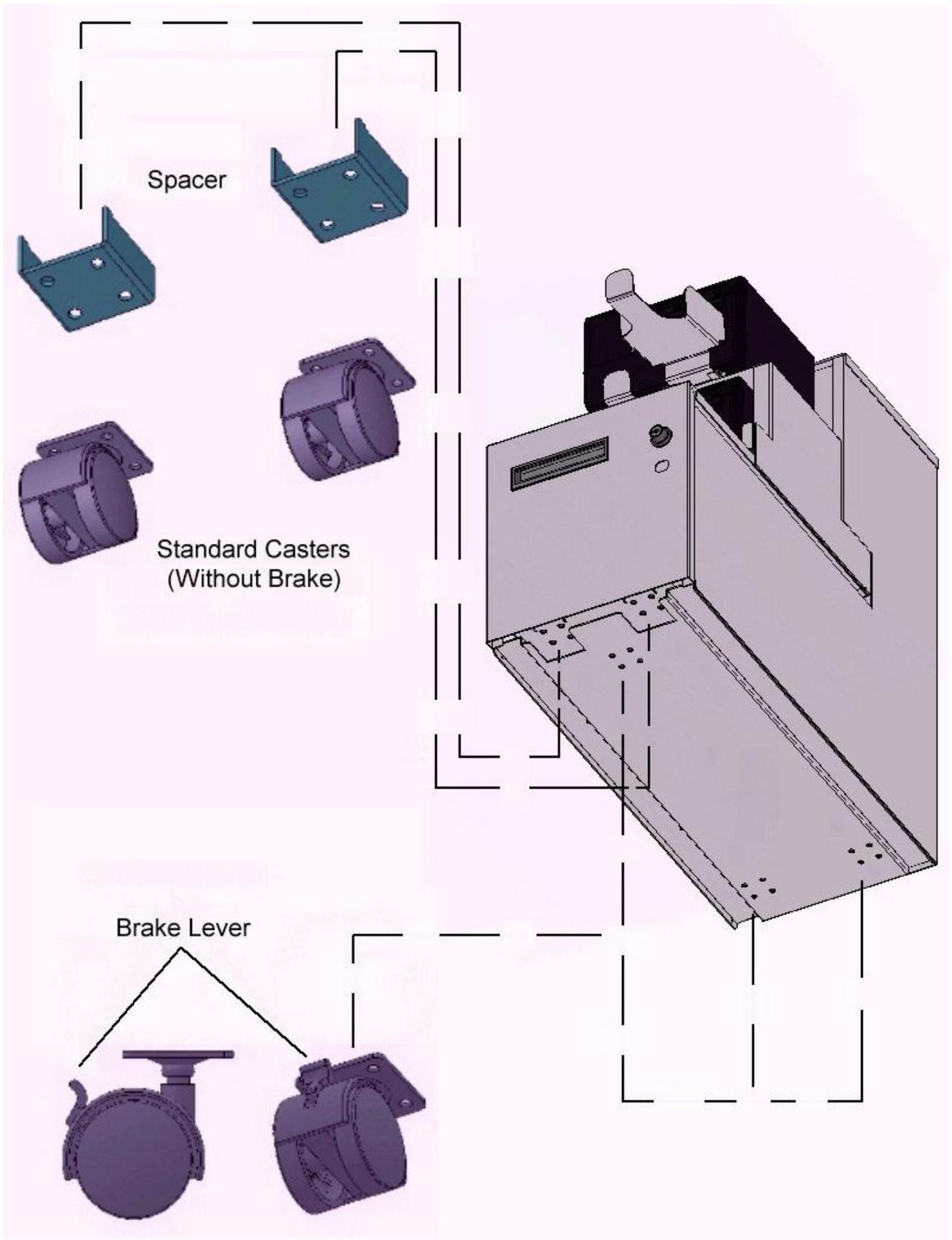


- 8.3.5 Move the ET6500 Mounting Bracket and Tray assembly forward to the front edge of the trolley and align it with the forward mounting holes.
- 8.3.6 Re-install the six (6) screws and secure the ET6500 Mounting Bracket and Tray assembly.
- 8.3.7 Re-install the screw onto the GND strap (new location).



## 9.0 Caster Option

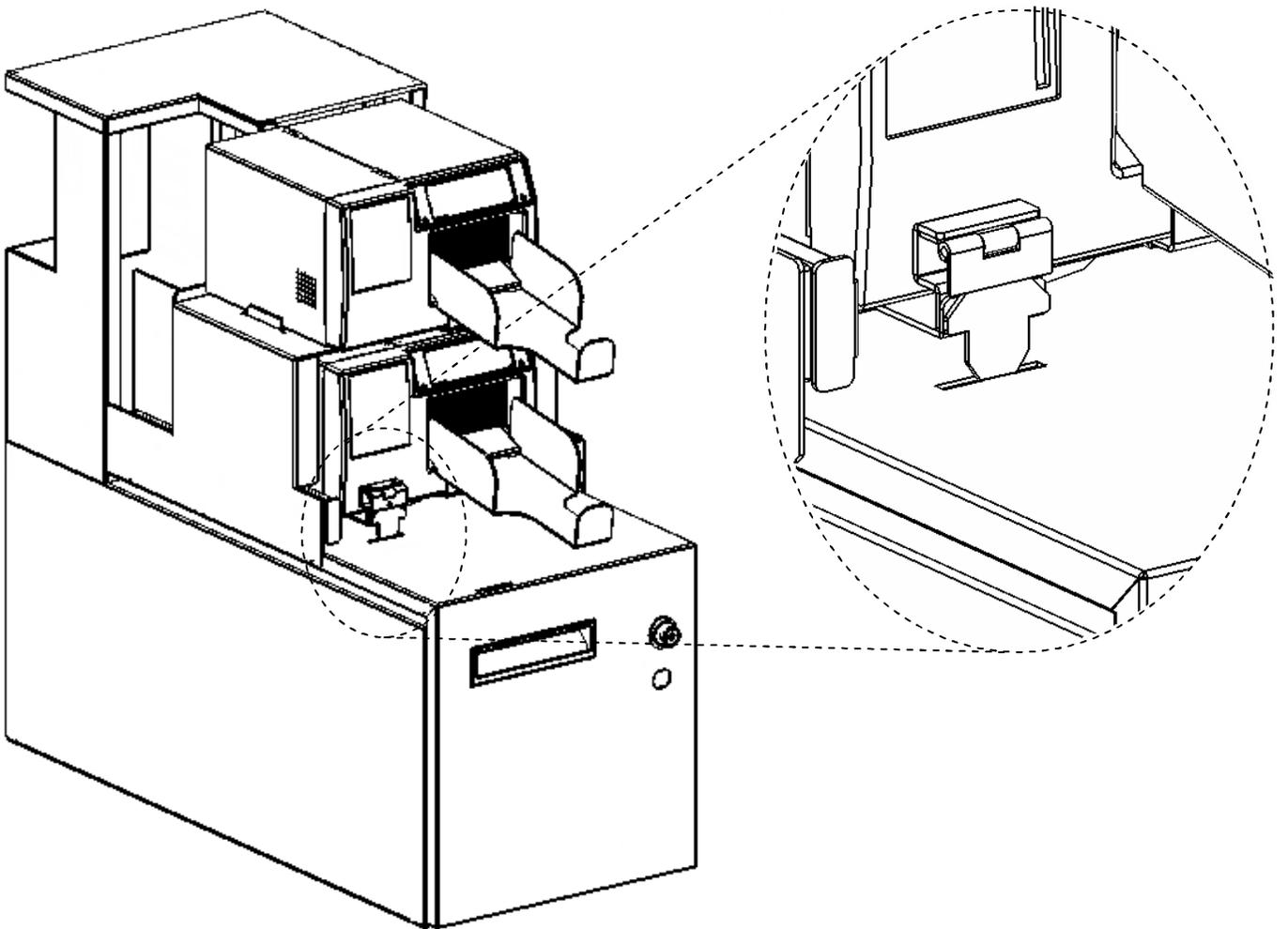
- 9.1 The DT4000R has been designed for a field installable caster option, which allows the operator to use the DT4000R as a free standing unit in an office or back office situation.
- 9.2 Locate the casters: Two (2) without a brake and Three (3) with a brake lever. Alternately all the casters could have brake levers, but they would never be engaged on the casters in the front two locations.
  - 9.2.1 The two casters without brake levers are installed in the front two locations, essentially on the pull out section.
  - 9.2.2 The other three casters with brake levers are installed in the rear positions, essentially on the normally mounted or stationary section.
- 9.3 Locate the two (2) spacers used to position the front two casters at the same level as the rear casters. The spacers have locating tabs to help align the spacer's holes with the mounting points and the caster mounting plate holes.
- 9.4 Set the DT4000R on its side.
- 9.5 Take two casters (presumably without the brake lever), the two spacers and the eight long screws provided in the kit. Insert the screws through the caster's mounting plate, the spacer and into the mounting points (threaded inserts) in the pullout section.
- 9.6 Take the remaining three caster (with brake levers) and install them at the mounting points on the stationary (normally mounted) section of the DT4000R. Use the 12 shorter screws provided.



## Addendum A: Hinged Tray Stop

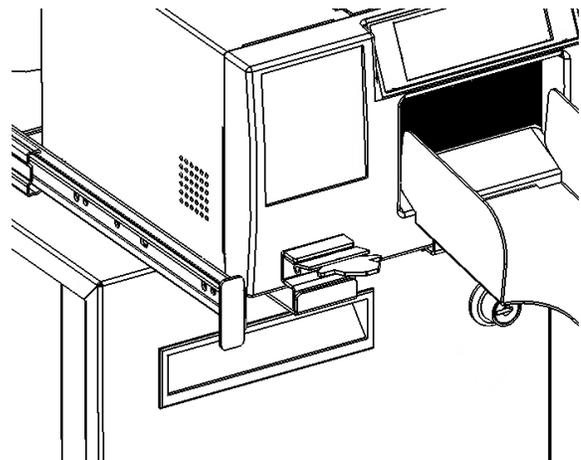
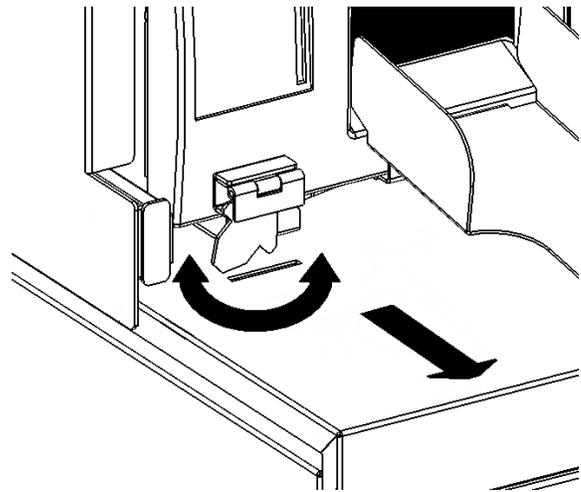
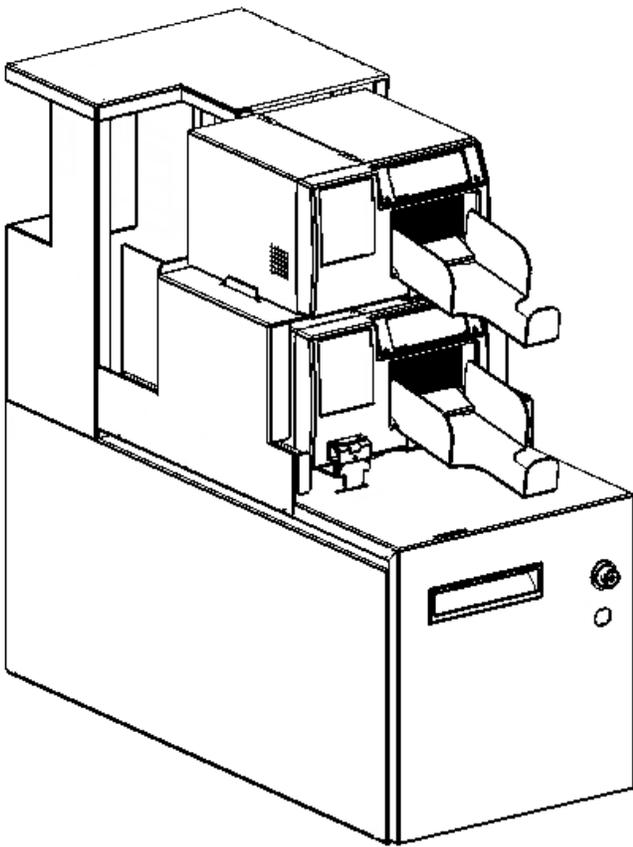
### A.1 Design Change

- A.1.1 As of the first quarter in 2012, Unimark has updated the bottom tray stop design to protect it against being damaged when the tray is closed without rotating the stop upwards.
- A.1.2 This was causing some of the stops to come loose from the tray.
- A.1.3 The stop is now mounted onto a hinge which rotates upward as the tray is closed.
- A.1.4 A kit may be ordered to retrofit trolleys to the new tray stop.



## A.2 Releasing and Accessing the bottom tray

- A.2.1 Both the original and the new “tray stop” prevents the tray from simply sliding forward when a document is removed from the unit (tear off mode) or when the operator casually pulls on the unit or document tray.
- A.2.2 Rotate the tray stop up (left or right) and pull the tray forward.
- A.2.3 As in the previous design the tray stop acts as a knob to pull the tray out from the rest of the trolley.



## A.3 Securing the bottom tray

A.3.1 Rotate the tray stop up and against the tray

A.3.2 Push the tray into the operating position:

A.3.2.1 This may be the fully inserted ATB/ATB position where the tray is fully inserted into the printer mounting bracket (U-Bracket).

A.3.2.2 Alternately it may be the forward position for the ATB/BTP trolley configuration.

A.3.3 Then rotate the stop down. In most cases the stop will simply fall into the position slot.

A.3.4 With the new design, if the operator does push the tray back into the trolley without rotating the stop up, it will simply rotate upwards as it comes in contact with the main trolley base via the hinge.

