



## ***TDM-100 TO TDM-150 CONVERSION PROCEDURE*** **(MODEL 9100 ATM)**

TDN 07102-00046B 08/2006

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# TDM-100 TO TDM-150 CONVERSION PROCEDURES

## PURPOSE

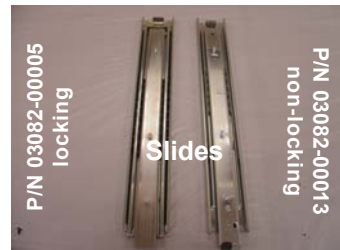
This guide covers the steps for swapping your TDM-100 dispenser in the Model 9100 ATM with a TDM-150 dispenser. This procedure includes a list of all tools and hardware necessary for the conversion as well as the steps involved.

## SCOPE

This procedure applies to all service personnel involved in the process of maintaining or converting Triton ATMs.

## REQUIRED PARTS AND TOOLS

TOOLS REQUIRED		
Phillips Screwdriver 11/32" and 1/4" Nut Drivers		
MODEL 9100 TDM-100 to TDM-150 CONVERSION KIT P/N 06200-00089		
PARTS SUPPLIED		
PART NUMBER	DESCRIPTION	QUANTITY
09005-01150	TDM-150 (w/cassette long and reject)	1
09110-00133	TDM Power Supply Assembly	1
09120-00273	TDM Communications Cable	1
03082-00005	Slide 13 inch Assembly	1
03082-00013	13 Inch Slide Non-Locking	1
03015-00120	TDM Inverse Tray Assembly with Pivot Handle	1
03011-00680	Slide Tray Mount Bracket (Left)	1
03011-00681	Slide Tray Mount Bracket (Right)	1
02054-00048	Screw, Truss Head #8-32 x 3/8"	6
02301-00004	Hex Nut, #8-32	14
02054-00035	Screw, Pan Head (w/tooth washer) #6-32 x 1/4"	6
03072-00015	Ty Wrap, 6"	3
02622-00024	Split Tubing, 1/2", Black	2 feet
02617-00007	Bushing, Snap	1
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**P/N 09120-00273** — TDM-150 Comms cable  
**P/N 02622-00024** — Split tubing  
**P/N 03072-00015** — Ty wraps



**P/N 02054-00048** — Truss head screws  
**P/N 02301-00004** — Hex nuts  
**P/N 02054-00035** — Pan head screws



## TDM-100 TO TDM-150 CONVERSION PROCEDURES

### REMOVE THE TDM-100 DISPENSER

Before proceeding, follow these steps to remove power from the ATM:

Unlock and open the ATM control panel. Turn the power switch to the OFF (0) position. If possible, unplug the ATM power cord at the wall outlet.

1. Open the cabinet vault door. Rotate the dispensing mechanism mounting platform to the service position. To do this, locate the spring-loaded locking pin on the underside of the mounting tray. This pin lets you lock the dispenser's swivel mounting platform into half-turn access positions. (Figure 1)
2. Pull the pin down to release the swivel mounting platform. Slowly turn the tray clockwise so that the note and reject cassettes can be accessed from the front. Release the locking pin and move the mounting platform back and forth slightly to ensure the pin snaps back into place, locking the mounting platform into the service position (Figures 2 and 3).
3. Disconnect the power and communication (Comms) cables from the dispenser (Figure 4, below). Open the ferrite component that surrounds the 2 cables and set aside.

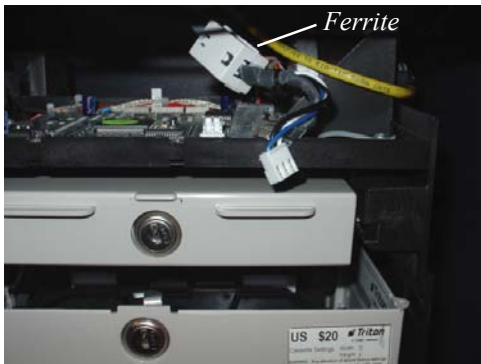


Figure 4. Power and Comm cable disconnected.

4. Remove the note and reject cassettes. Using a phillips head screwdriver, remove the four (4) screws that secure the dispenser to the swivel platform (Figure 5, below). Remove the TDM-100 dispenser mechanism.

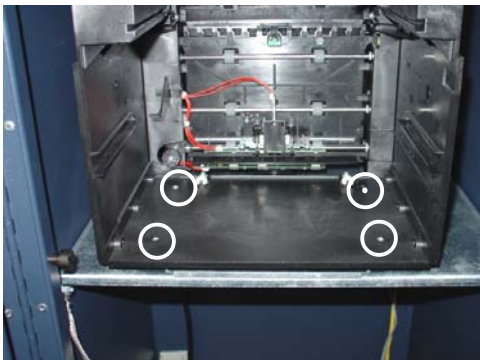


Figure 5. Remove mounting screws.

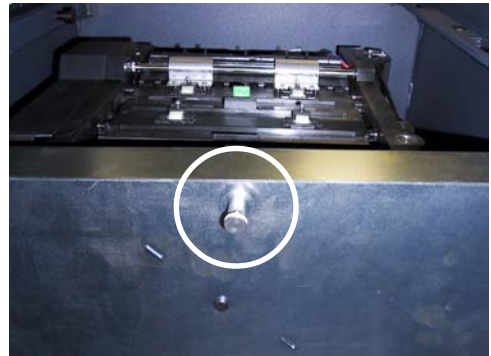


Figure 1. Pull release pin for swivel platform.



Figure 2. Rotate dispenser clockwise.



Figure 3. Mechanism in service position.

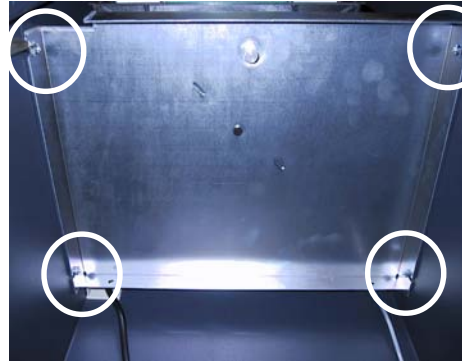
## TDM-100 TO TDM-150 CONVERSION PROCEDURES

### REMOVE THE DISPENSER TRAY

1. Remove the nut that secures the cabinet grounding strap to the mounting bolt that supports the left-front corner of the dispenser tray (Figure 6). Remove the nuts from the remaining mounting bolts (Figure 7).



*Figure 6. Grounding strap secured to dispenser tray mounting bolt.*



*Figure 7. Location of dispenser tray mounting bolts.*

2. Lift the tray up and away from the bolts and remove it from the cabinet. You will need to turn the tray slightly to clear the edges of the cabinet opening.



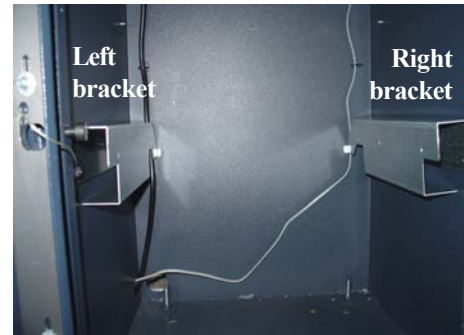
*Figure 8. Turn tray to clear door edges.*



*Figure 9. Dispenser tray removed from cabinet.*


**Install the Slide Tray Assembly (for TDM-150)**

1. Slide the tray mount brackets [P/N 03011-00680 (L) and 03011-00681 (R)] fully over the **lower** mounting bolts (Figure 1). Ensure the grounding strap is connected and tighten all the hex nuts with an 11/32" nut driver. Make sure the mounting brackets are seated fully on the mounting bolts.



*Figure 1. Mount brackets to cabinet.*

**\* Important \***  
Route the AC power cable and communication line (phone, TCP/IP) behind the mounting brackets against the rear wall (see insert).



2. This step involves assembling the slide rails to the tray mounting brackets. There are 2 different slide rails: **locking** (mounted on right side) and **non-locking** (mounted on left side). Figure 2 shows the locking slide rail. To assemble, slide the rail out fully as shown in Figure 2. Align the mounting bracket with the three (3) holes pictured (Figure 3) and secure them together using three (3) truss head phillip screws (P/N 02054-00048). Repeat for the other slide rail/bracket.

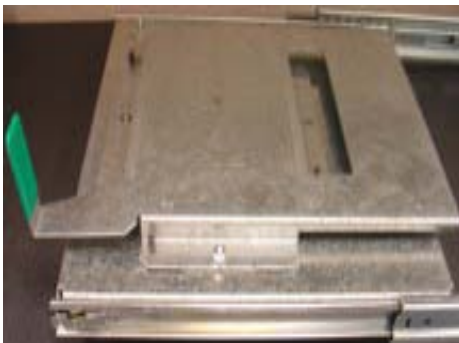


*Figure 2. Locking slide rail.*

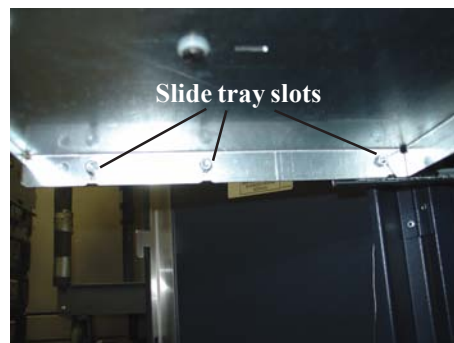


*Figure 3. Slide rail - screw hole locations.*

3. Extend the slide rails fully. There are three (3) screws protruding from each slide rail shown in Figure 2. The slide tray will mount on these screws.
4. With the tray orientated as shown in Figure 4, align the slide tray slots (Figure 5) with the slide rail screws and secure with the hex nuts using an 11/32 " nut driver. Ensure tray is seated fully on rail screws.



*Figure 4. Slide tray orientation.*



*Figure 5. Slide tray slots.*

## TDM-100 TO TDM-150 CONVERSION PROCEDURES

### Install the TDM-150 Dispensing Mechanism

1. Extend the mounting tray assembly fully. Pull the release pin down (Figure 6) and rotate the turntable 180° clockwise (Figure 7). Release the pin and lock the turntable in the “Service position” (Figure 8).

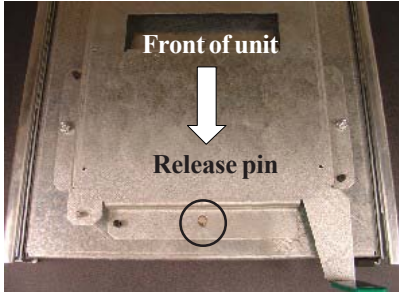


Figure 6. Pull release pin.

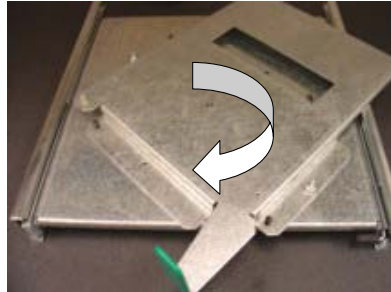


Figure 7. Rotate turntable 180°.



Figure 8. Turntable in “Service” position.

2. Remove the note and reject cassettes from the TDM-150 dispenser. Mount the dispenser on the turntable. Align the screw holes on the dispenser bottom frame (Figure 9) with the threaded holes on the turntable (Figure 10). Install the pan-head phillips screws w/tooth washers and secure the dispenser to the turntable. Figure 11 shows the dispenser installed.
3. **DO NOT CONNECT THE POWER/DATA CABLES TO THE DISPENSER!** These will be replaced with the new power supply included in the conversion kit. The next procedure describes the removal and installation of the power supply assembly.

**\* Note \***  
The TDM-150 requires six (6) screws.  
Refer to Figure 10 for the dispenser  
placement and hole locations for each.



Figure 9. Dispenser hole locations.

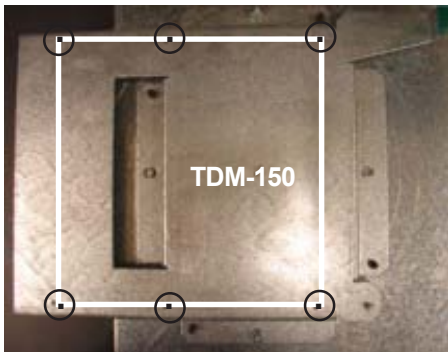


Figure 10. Turntable hole locations.

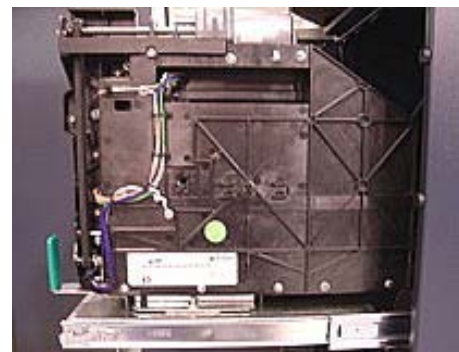


Figure 11. Dispenser installed on tray.

## TDM-100 TO TDM-150 CONVERSION PROCEDURES

### REMOVE/INSTALL THE POWER SUPPLY AND TDM COMMS CABLE

**\* NOTE \***

The power supply assembly comes with the DC cable harness attached. **DO NOT** disconnect the harness from the power supply.

**\* Helpful Hint\***

Before disconnecting wires, cables, etc., either tag or draw a diagram of where connections were orientated to help you when reconnecting.

1. Open the control panel. Disconnect the following:
  - the AC input/output cables located on the power supply,
  - all wire connections that run in the black spit tubing (to Main board assembly, printer controller board),
  - and the dispenser communications cable and phone cable from the main board assembly.
2. Remove the dispenser communications cable (TDM Comms cable) from the cabinet (Figure 22).
3. Remove the screw that secures the power supply and ground wire harness using a 1/4" nut driver (Figure 23). Do not discard the screw.
4. Slide the power supply slightly forward and lift to remove (There are 2 grommets holding the AC input cable and phone line respectively. You may have to move these to slide the power supply forward.)
5. Remove the power supply with its attached cable harness. The phone line and ground harness remain, so separate them out from the black tubing. Figure 24 shows the control panel with the power supply and dispenser data cable removed.
6. Install the new power supply assembly (P/N 09110-00133) and secure with the screw removed in step 2. Remember to secure the ground wire harness to the screw!
7. Route the dispenser DC power cables through the cable entry opening down to the lower vault cabinet area (Figure 25).
8. Route the new TDM Comms cable (P/N 09120-00273) through the cable entry opening down to the lower vault cabinet area (Figure 25).

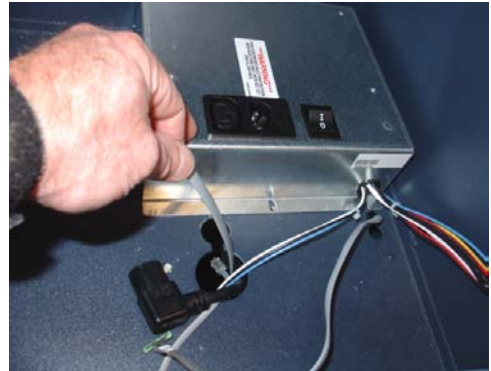


Figure 22. Remove Comms cable.



Figure 23. Remove screw.

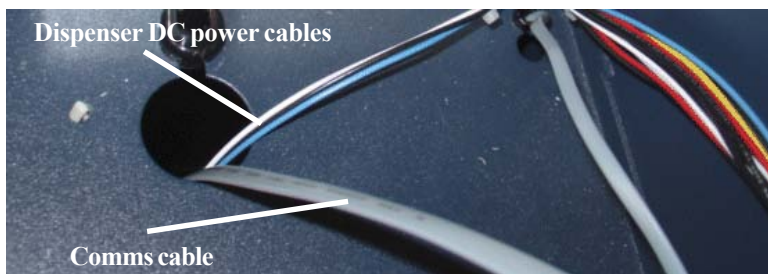


Figure 25. Route dispenser power and comms cables through opening.



Figure 24. Power supply and dispenser data cable removed from cabinet.

## TDM-100 TO TDM-150 CONVERSION PROCEDURES

### CONNECT/SECURE CABLES

1. Ensure the power supply switch is turned **OFF**. Connect the power cables to the Main board and Printer controller. Next, connect the phone line cable and the TDM Comms cable (RJ-45 connector) to the Main board. Last, connect the AC input cable to the power supply.
2. Cover the cables with the Split tubing (P/N 02622-00024) provided (Figure 26) and secure with Ty wraps.
3. In the cabinet vault area, slide the dispenser mechanism to its fully extended position. Rotate the dispenser to the “Service” position (cassettes facing towards front).
4. Route the dispenser power and Comms cable through the cable clip shown in Figure 27. Next, route the cables through the Ty wrap on the right side of the dispenser shown in Figure 28. **DO NOT TIGHTEN TYWRAP AT THIS TIME!**
5. Route the dispenser power and Comms cable through the Ty wrap provided and connect cables to the dispenser (Figure 29). Tighten both Ty wraps to secure.
6. Rotate the dispenser 180° counter-clockwise to the “Operate” position. Slide the dispenser back into the cabinet. Installation complete.



Figure 26. Cables connected w/tubing.



Figure 27. Route cables through clip.

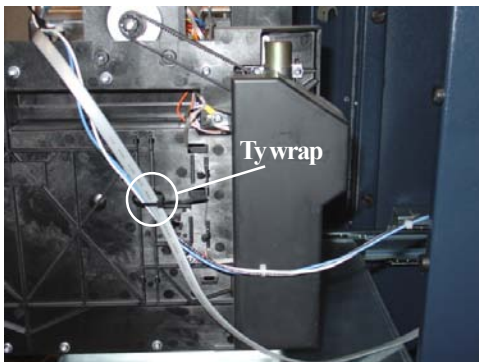


Figure 28. Route cables through Ty wrap.

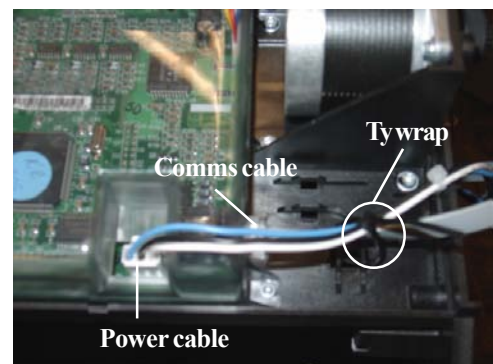


Figure 29. Route/connect cables.



*TDM-100 TO TDM-150 CONVERSION PROCEDURES*

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