



**NMD-50 TO TDM-200
FIELD CONVERSION PROCEDURES
(MODEL RL5000 ATM)**

TDN 07103-00167 04/2007

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NMD-50 TO TDM-200 CONVERSION PROCEDURES

PURPOSE

This guide covers the steps for replacing an NMD-50 in the Model RL5000 ATM with a TDM-200. 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.

APPLICATION

This conversion kit applies to RL5000 cabinets that have a "Lift" handle for the vault door. If your unit has a "T-Handle" for the vault door, you **can not** perform this conversion.

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED		
Phillips Screwdriver 11/32" (9mm) and 7/16" (11 mm) Nut Driver		
NMD-50 to TDM-200 CONVERSION KIT (P/N 06200-00165)		
PARTS SUPPLIED		
PART NUMBER	DESCRIPTION	QUANTITY
09015-01200	TDM-200 (w/Note and Reject Cassettes)	1
09120-00144	Cable Harness (Power,Data, Ground)	1
03015-00165	TDM Inverse Tray Assy (w/pivot handle)	1
03011-01811	TDM-200 Tray Assy Extension	1
03011-01495	Bracket, Slide Mount, Left	1
03011-01496	Bracket, Slide Mount, Right	1
03082-00005	Slide Assy, Locking (Right)	1
03082-00013	Slide Assy, Non-Locking (Left)	1
¹ 02054-00164	Screw, Pan Head, #6-32 x 1/4" (w/ext tooth washer)	6
² 02054-00168	Screw, Truss Head, #8-32 x 3/8"	6
³ 02301-00024	Hex Nut, #8-32, (w/ext tooth washer)	12
⁴ 02301-00041	Kep Nut, 1/4-20	2
03072-00015	Ty Wrap, 6"	3
03011-00662	Bracket, Anti-crash (Bumper)	1
02314-00113	Foot, Push-on (Bumper)	1
01030-00010	Ferrite	1
07100-00022	Model RL5000 Quick Reference Card (TDM-100/150)	1
07103-00167	NMD-50 to TDM-200 Conversion Procedures (RL5000)	1
¹ (4) -mounting TDM, (2) - tray extension ² (6) - slide assemblies ³ (4) - slide mount brackets, (6)- tray assembly, (2) - power supply ⁴ (1) - anti-crash bumper, (1) - cable harness ground		

DISASSEMBLY PROCEDURES

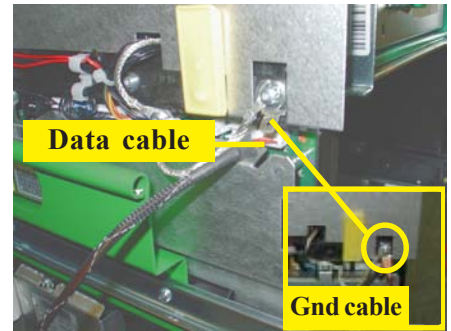
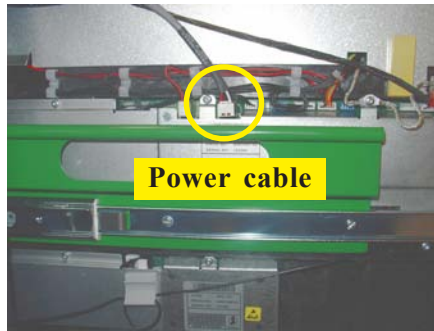
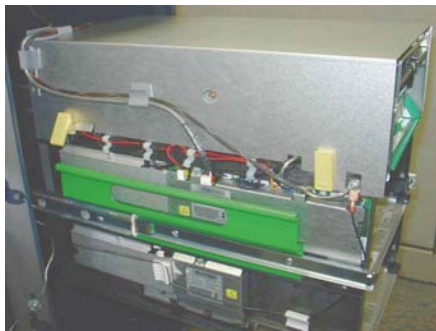
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal**. When prompted, turn power **OFF** on the ATM's power supply. 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.

REMOVE NMD-50 DISPENSER

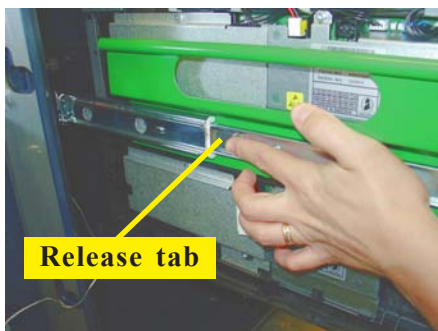
STEP 1 DISCONNECT NMD-50 CABLES

- Open the cabinet vault door. Extend the NMD-50 fully on its slide rails.
- Disconnect the power, data, and ground cables from the mechanism.



STEP 2 REMOVE DISPENSER (2 PERSONNEL RECOMMENDED)

- Push the release tabs on each slide rail and slide the mechanism out slightly.
- Continue sliding mechanism out from slide rails and remove from cabinet.



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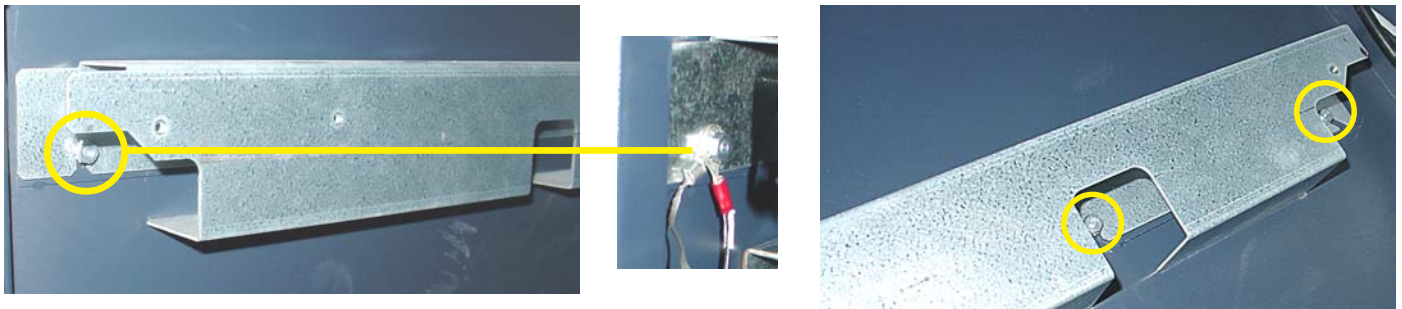
STEP 3 REMOVE SLIDE RAILS

- Using a phillips screwdriver, remove the screw shown.
- Rotate the latch shown (below) and slide the rail inward until you locate the other two (2) screws.
- Remove these two (2) screws shown below. Remove the slide rail and repeat on the other side.



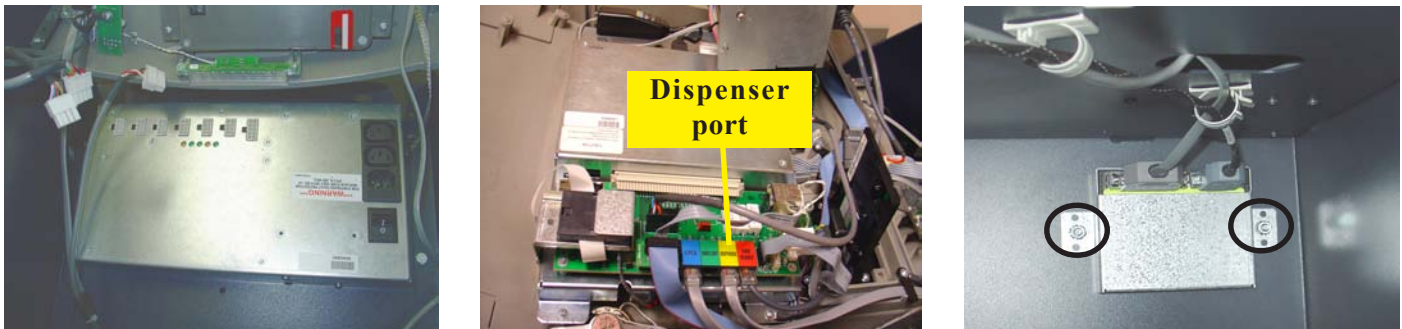
STEP 4 REMOVE BRACKETS

- Using the 11/32" (9mm) nutdriver, remove the nut shown and disconnect the ground wires (the ground wire for the NMD-50 can be removed from the cabinet).
- Remove the other two (2) nuts that secure the rail bracket. Remove the bracket and repeat on the other side.



STEP 5 REMOVE EJ ASSEMBLY

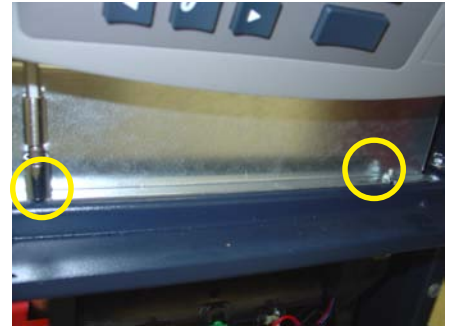
- Open the control panel and disconnect all the cables from the power supply. Next, disconnect the data cable from the port marked "DISPENSER" on the Docking board.
- Using the 7/16" (11mm) nutdriver, remove the two (2) nuts that secure the EJ bracket. Remove the EJ assembly (w/cables).



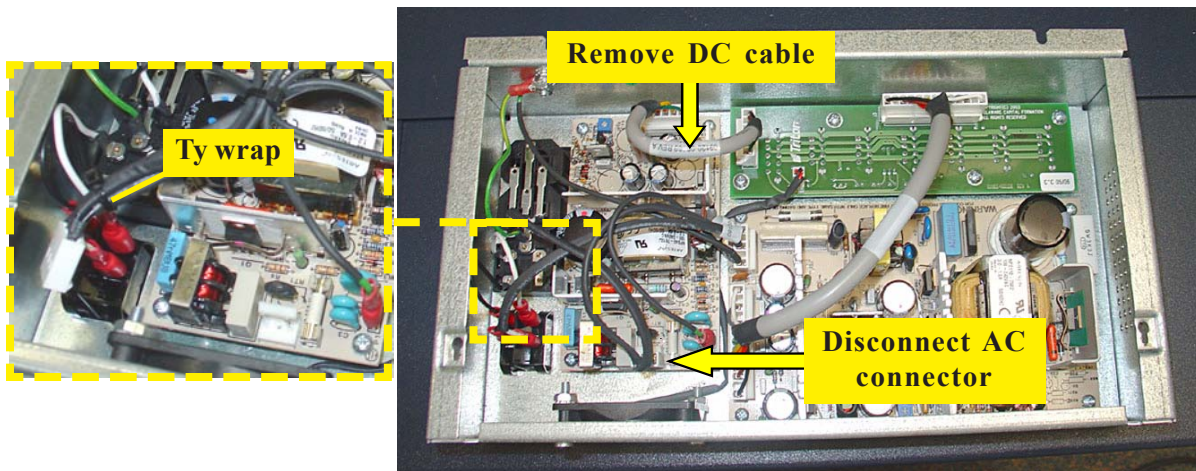
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STEP 6 REMOVE / MODIFY POWER SUPPLY

- Open the control panel. Remove the dispenser power cable from the cabinet.
- Lift the control panel slightly. Using an 11/32" (9 mm) nut driver, **loosen** the two (2) nuts that secure the power supply to the cabinet. Slide the power supply towards the rear of the cabinet and remove from the unit.



- Place the power supply on a flat surface as shown. Disconnect (both ends) and **remove** the DC cable shown. Next, **disconnect** the AC connector shown. Move cable end over to existing cable shown (see insert) and secure with ty wrap.



INSTALL UPGRADE KIT ASSEMBLIES

STEP 1 INSTALL TDM CABLE HARNESS / POWER SUPPLY

- Feed the TDM cable harness down to the vault area through the cable access hole.
- Using a 7/16" (11 mm) nut driver, secure the ground wire to the threaded screw shown with Kep nut provided.
- Install the power supply under the two (2) nuts previously loosened and secure nuts. **Note: Remember to reconnect any ground wires that were removed previously.**



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STEP 2 INSTALL SLIDE RAIL MOUNTING HARDWARE (SECURITY VAULT AREA)

- Install one (1) nut provided on the **MIDDLE** mounting bolts located on the **LOWER** row of bolts.
- Locate the two (2) mounting brackets in kit. There is a **Left** and **Right** specific. Mount the bracket by first starting backslot on the middle bolt and rotate down over the front bolt (closest to door).
- (**Left** side) Reconnect the cabinet ground connector (from vault door) to this front bolt.
- Install nuts on the front bolts and secure all.

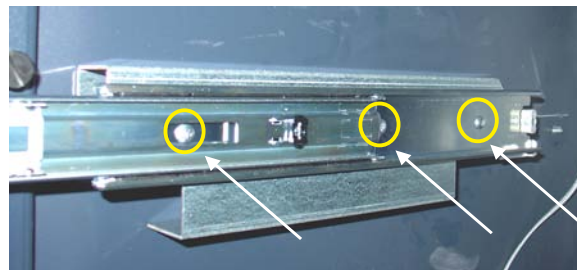


**** IMPORTANT ****
Ensure middle bolt is fully seated in the backslot. Brackets **must** be level when installed!



STEP 3 INSTALL SLIDE RAIL ASSEMBLIES

- There are two (2) different slide rails: **Locking** (mounted on right side - black latch) and **Non-locking** (mounted on left side).
- Slide the rail(s) out fully. Align the three (3) holes pictures to the mounting bracket.
- Secure slide rail(s) using three (3) truss head phillips screws to the bracket.



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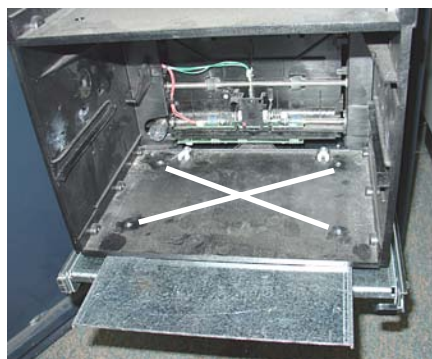
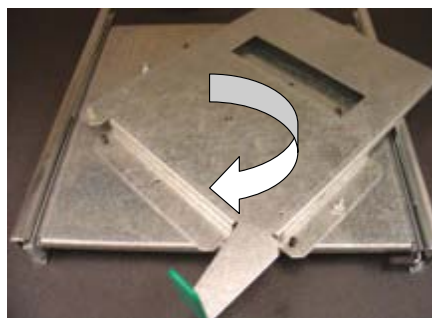
STEP 4 INSTALL SLIDE TRAY

- Extend the slide rails fully. There are three (3) screws protruding from each side shown. The slide tray mounts on these screws.
- With the tray orientated as shown, align the slide tray slots with the slide rail screws and secure with the hex nuts provided. Ensure tray is fully seated on rail screws.



STEP 5 INSTALL TDM-200

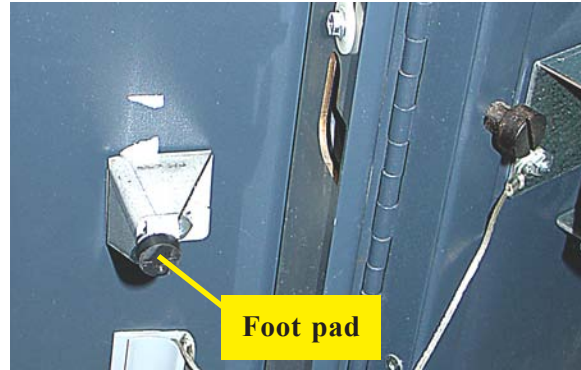
- Pull the release pin (under tray) and rotate the turntable 180° clockwise. Release pin and lock turntable in place. This is the “Service” position (cassettes will be facing when installed).
- Remove the note and reject cassettes from the dispenser. Mount the dispenser on the turntable. Align the screw holes on the dispenser bottom frame with the four (4) threaded holes on the turntable. Install the pan-head phillips screws w/tooth washers and secure the dispenser to the turntable.



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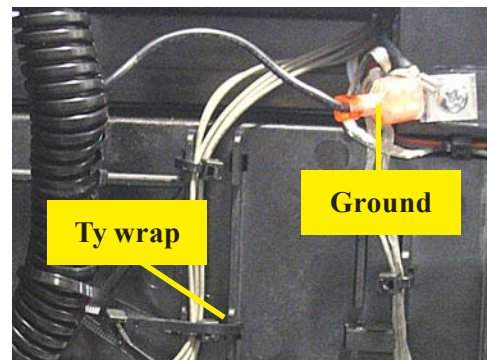
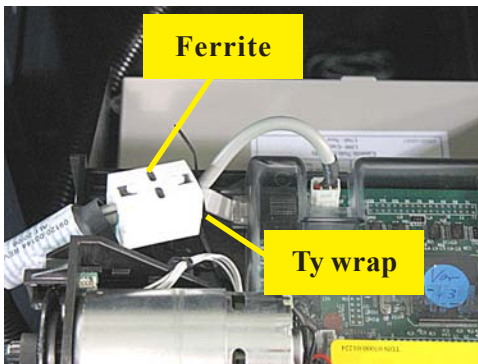
STEP 6 INSTALL TRAY EXTENSION / TRAY BUMPER

- Install the tray extension and secure with two (2) pan head screws provided.
- On the cabinet door, mount the anti-crash bracket (bumper) on the lower bolt and secure with a Kep nut. Next, install the black foot pad in the bracket.



STEP 7 CONNECT TDM CABLES / FERRITE

- Route the dispenser cable harness through the snap cable clips.
- Route the dispenser power and data cables through the ty-wrap located near the dispenser main board and connect cables to the dispenser. Secure this ty-wrap. Connect the ground wire shown and secure the cable harness to the dispenser with a ty-wrap.
- Open the ferrite and enclose the power and data cables as shown.



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STEP 8 INSTALL CASSETTES / ROTATE MECHANISM

- Reinstall the cassettes. Pull the release pin (under tray) and rotate the turntable 180° counterclockwise. Release pin and lock turntable in place. This is the “Operate” position (cassettes towards rear). Slide the mechanism back into the cabinet.



**** Caution ****

When rotating the turntable AND/OR sliding the dispensing mechanism into the cabinet, check to ensure the cables are not stressed or binding on the dispenser before closing the cabinet door.

STEP 9 CONNECT POWER / DATA CABLES (CONTROL PANEL)

- Route the dispenser data cable to the Docking board assembly and connect to the port marked “DISPENSER”.
- Reconnect all power cables (AC/DC) to the power supply.

