



**EJ TO SECURITY MODULE
UPGRADE
RL5000, FT5000, XSCALE AND X2 ONLY, AND
9100 WITH MINI MECH AND SDD**

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Document Updates

October 21, 2011	Original	
December 2, 2011	Edits to cover page to indicated RL/FT 5K Xscale and X2 only, not XP.	
December 12, 2013	Separated RL5xxx by cabinet serial number and added new cable routing.	
June 8, 2015	Updated to add 9100	1029762
January 28, 2016	Updated to add software updates for 9100	1030844

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Ensure the most up-to-date software is installed on the unit BEFORE proceeding.

INTRODUCTION

PURPOSE

This guide covers the steps for replacing your current Electronic Journal (EJ) with a new Security Module (SM). The new module adds additional security to the mainboard to dispenser communications path, and increases the size of the journal file. These procedures include a list of all tools and hardware necessary for the replacement as well as the steps involved.

SCOPE

These procedures apply to all VERIFIED TRITON TRAINED service personnel involved in the process of maintaining or converting Triton ATMs.

APPLICATION

This conversion kit applies to the Model RL5000 and FT5000 ATMs, XScale, X2 and 9100 only. This upgrade is not applicable to terminals with a TDM dispenser. The journals are stored on the mainboard of the TDM. If you have any questions contact Triton Technical Support.

NOTES

SOFTWARE DEPENDENCY

It is unlikely but possible that your unit **will not** recognize the new Security Module with your current software. Please visit the Triton web site (<http://www.Triton.com>) for the latest version, or contact Triton Technical Support.

UNIT CONFIGURATIONS

Due to production, rehab, update, or repair differences, your unit **may vary** in hardware, cable color, length, and routing, as compared to the examples given. These instructions are **representative** of the upgrade for each type of unit. Your units **appearance may vary**.

TOOLS

The use of magnetic implements may be helpful in the removal and replacement of some hardware.

KITS

Due to the versatility of the kit, there **will** be parts that are **not** used in your particular unit.

ADDITIONAL NOTES

IT MAY BE BENEFICIAL TO ASSEMBLE THE SECURITY MODULE, CABLES AND BRACKET INTO A COMPLETED ASSEMBLY BEFORE GOING TO YOUR PARTICULAR SITE.

SECTION 1A

ELECTRONIC JOURNAL TO SECURITY MODULE UPGRADE RL5000 CABINET OR VAULT SDD

07103-00224 DECEMBER 12, 2013

EJ TO SECURITY MODULE UPGRADE PROCEDURES

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#2 Phillips screwdriver with a 4 inch shank 11/32" & 7/16" hollow shaft nut drivers Side cut pliers USB flash drive Small paperclip (straightened out)
KIT 06200-00187	RL5000 Cabinet / Vault with SDD - EJ to SM Conversion Kit

Part #	Description	Qty
1	FT/RL/Traverse Live- (PPA) Security Module v2.1	1
2	Security Module Power Cable ROHS	1
3	TDM/SM Communication Cable, 63" ROHS	1
4	SDD Communication Cable ROHS	1
5	Security Module Flat Bracket	1
6	3/4" Round Screw-In Quick Release Cable Clip	5
7	8/32 Hex Nut Ext. Tooth Washer	4
8	1/4-20 Nylon Lock Hex Jam Nut (BUSINESS HOUR ONLY)	2
9	#8-32 3/8 Inch Pan Phil Head Screw Ext Tooth Washer	3
10	1/4-20 X 3/8 Hex Bolt (VAULT ONLY)	2
11	6 Inches Nylon Ty Wrap Post Adhesive Backed White	1
12	6 Inches TY Wraps	5

Ensure the most up-to-date software is installed on the unit BEFORE proceeding.

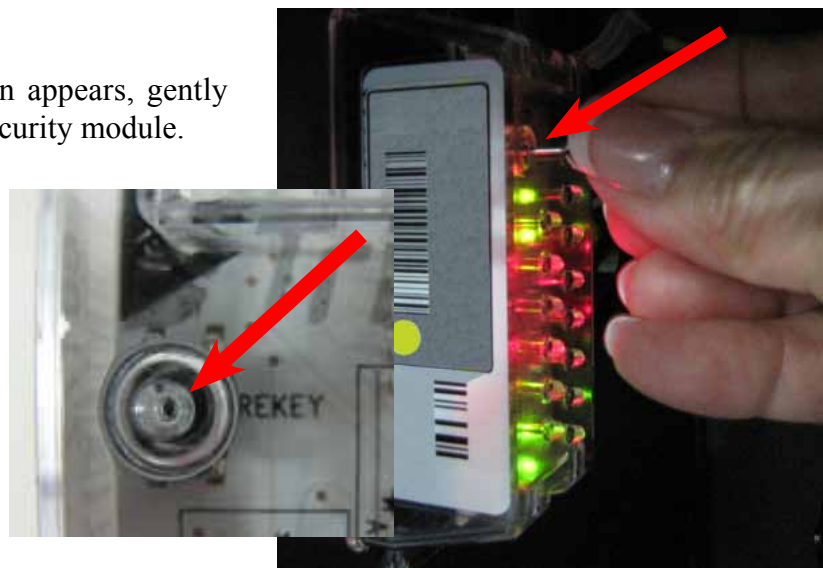
For additional cable organization, Close Out Plate KIT 06200-08211 should be ordered and installed into the unit.

Skip to page 5 and perform the security module installation and cable routing BEFORE completing the “Synchronizing the Security Module...” instructions.

Synchronizing the Security Module to the Mainboard

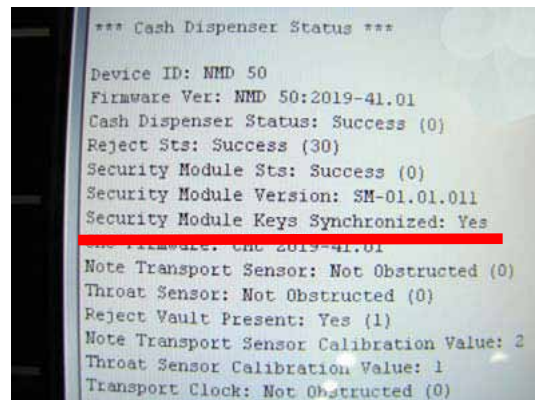
1. Open the upper cabinet and power up the unit by flipping the power switch on the unit’s power supply to the ON position (I).
2. When the unit is powered up completely, press and hold the “blank” key on the keypad and then press the “1” key.
3. Enter your password to log into Management Functions and press ENTER.
4. If applicable, press “0” to navigate to the Main Menu page.
5. On the Main Menu page, press “2” Diagnostics.
6. On the Terminal Diagnostics page, press “4” Dispenser.
7. On the Cash Dispenser Diagnostics page, press “7” Initialize Dispenser.

8. When the confirmation screen appears, gently insert the paperclip into the security module.



9. Press ENTER on the keypad.
10. When the “Dispenser initialize is complete” screen appears, press Enter to return to the Cash Dispenser Diagnostics page.

11. Press “1” Cash Dispenser Status. Review the status report to ensure the “Security Module Keys Synchronized” states “Yes”. If “No”, repeat Steps 7 - 11.



12. Press ENTER on the keypad 3 times to exit out of Management Functions. Return the ATM to customer mode.

EJ TO SECURITY MODULE UPGRADE PROCEDURES

RL5000 UPGRADE

BEFORE PROCEEDING:

- Ensure all of your Journal Records have been saved to a USB flash drive.
- Perform a proper management function shut down 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.
- Open the dispenser area.

Removal

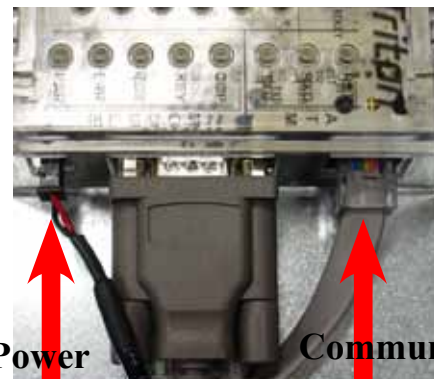
1. Refer to the applicable service manual for your unit for steps to remove your dispenser. Removal of the dispenser will provide the working room necessary to accomplish the upgrade.
2. Disconnect the dispenser communications and power cables from the dispenser. Loosen the four wire plate cable clips securing the control panel cables. Unplug the dispenser communication from the mainboard and the dispenser power cable from the power supply and remove from the unit. Set aside for reinstallation.
3. Disconnect the dispenser to EJ cable and remove the cable. Discard cable.
4. Disconnect the EJ to docking board or mainboard cable as applicable and remove the cable. Discard.
5. Remove the hardware attaching the EJ to the side or rear of the cabinet and remove the EJ. Discard.

Installation

6. Connect the new dispenser communication cable to the new security module. Tighten the thumbscrews to secure the cable.



7. Connect the security module power cable and communications cable to the new security module as shown.



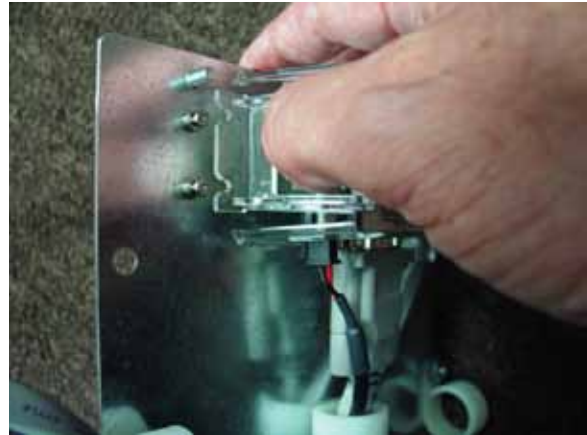
RL5000

Use the table of contents below to locate your unit's serial number and page number for the correct installation and cable routing.

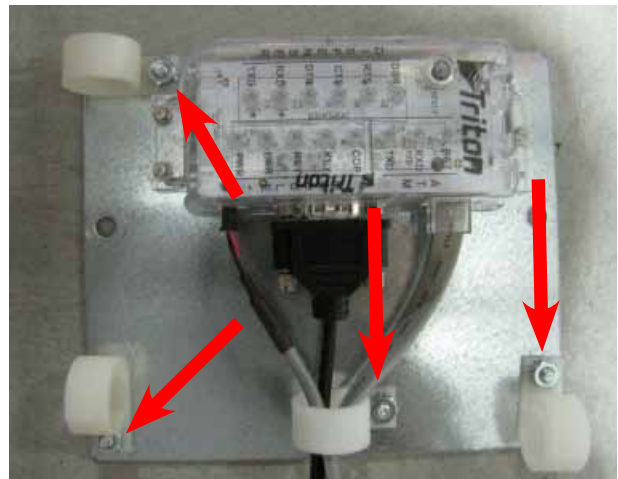
<u>Cabinet Serial Number</u>	<u>Cabinet Part Number</u>	<u>Page #</u>
<u>LRL511403248xxxx - LRL511404295xxxx</u>	97000-00000	1A-6
<u>LRL511404296xxxx - LRL511407353xxxx</u> <u>LRL531407340xxxx - LRL531409314xxxx</u>	03015-00052, 03015-00167	1A-10
<u>LRL531409315xxxx - LRL531410192xxxx</u> <u>LRL512403329xxxx - LRL512407353xxxx</u>	03015-00793, 03015-00833, 03015-01340	1A-14
<u>LRL532407352xxxx - LRL532409214xxxx</u>	03015-00064, 03015-00200, 03015-00227	1A-18
<u>LRL532409215xxxx - LRL532410187xxxx</u>	03015-00798, 03015-00212, 03015-00841	1A-22

Cabinet # 09700-00000 with an SDD Dispenser Right Side Mounting

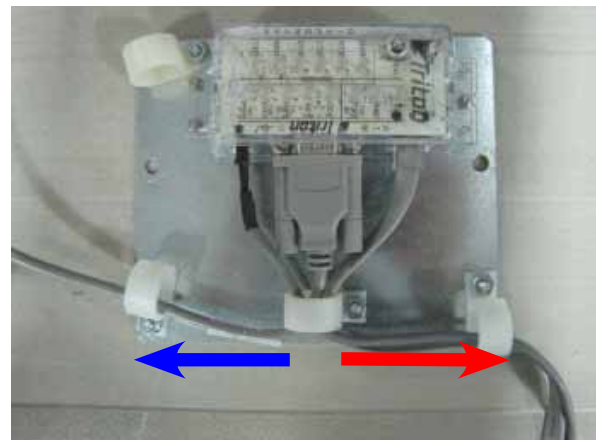
8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



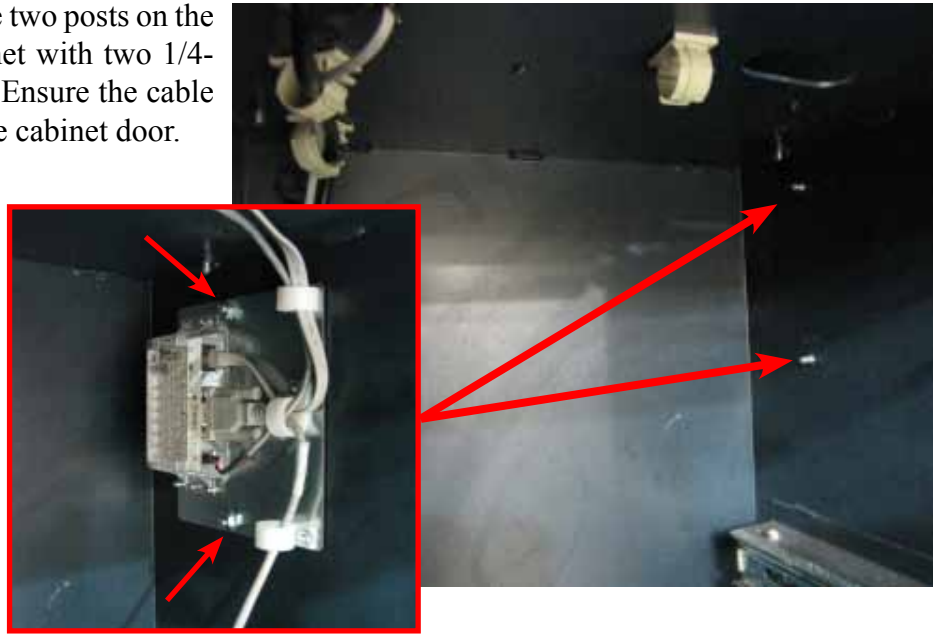
9. Attach four quick release cable clips to the mounting bracket using four 8/32 Hex Nuts. Ensure the orientation of the clips matches the picture as shown. Route the cables through the middle cable clip.



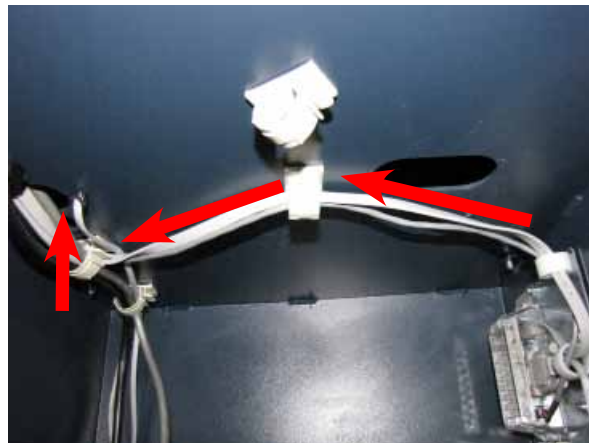
10. Route the dispenser communication cable through the left clip (blue arrow). Route the security module power cable and security module communication cable through the right clip (red arrow).



11. Mount the assembly onto the two posts on the right side of the inner cabinet with two 1/4-20 Hex Jam Nut as shown. Ensure the cable connections face towards the cabinet door.



12. Route the security module power cable and the security module communication cable through the upper back middle cable clip and the upper left front cable clip as shown. Route the excess power and communication cable into the upper cabinet through the left hole opening.



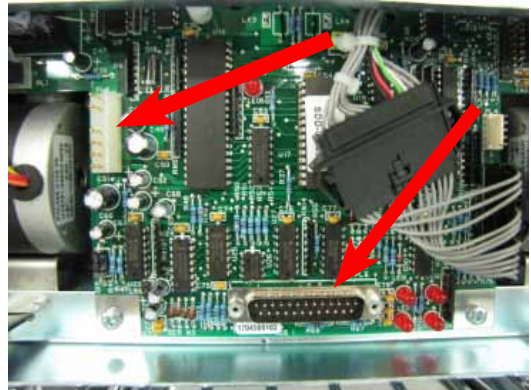
13. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet. Route the cable through the two left side cable clips.



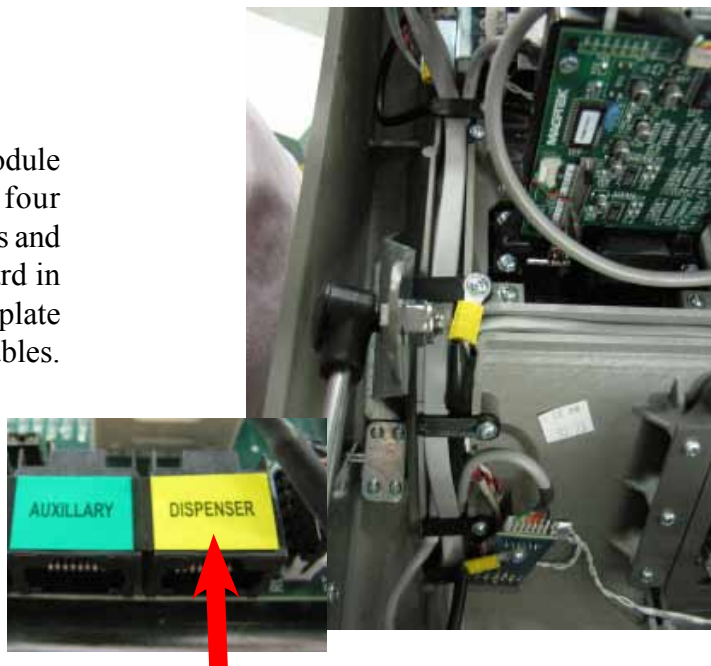
14. Loop the SDD dispenser communication cable back on itself twice to condense the length of the cable to match the length of the dispenser power cable. TY Wrap the two cables together in two spots as shown. Cut off the excess TY Wraps.



15. Plug the cables into the back of the SDD dispenser and tighten the thumbscrews on the communication cable to secure it. Reinstall the dispenser into the unit.

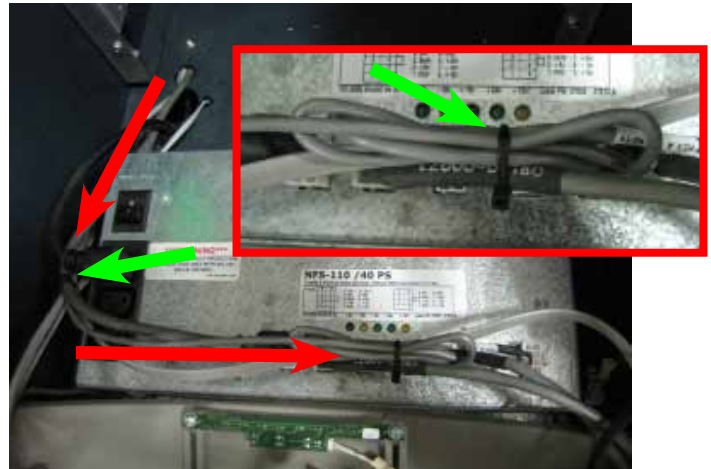


16. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



- 17.** Route the security module communication and security module power cable around the unit's main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

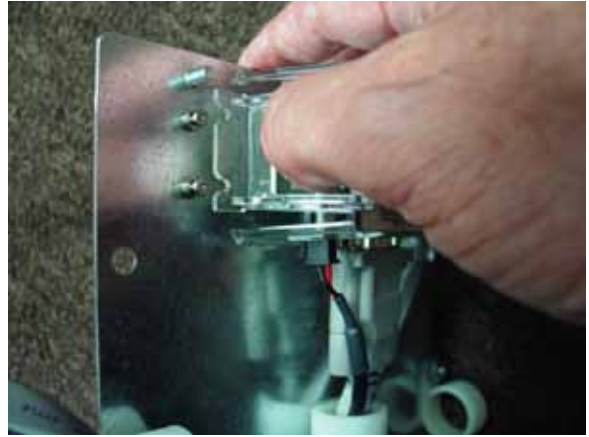
Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess (green arrows).



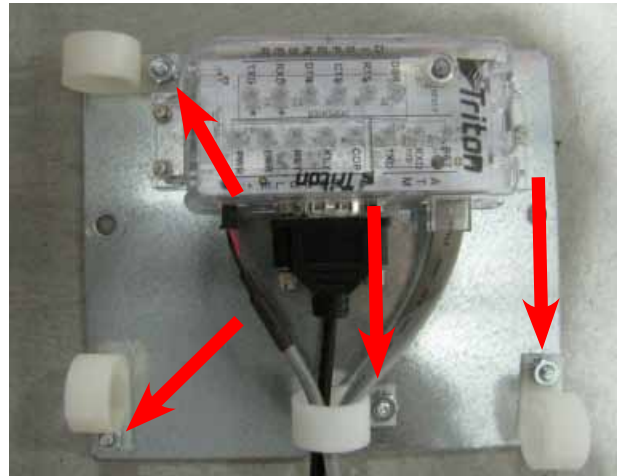
- 18.** To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

Cabinet # 03015-00052 & 03015-00167 with an SDD Dispenser Back Wall Mounting

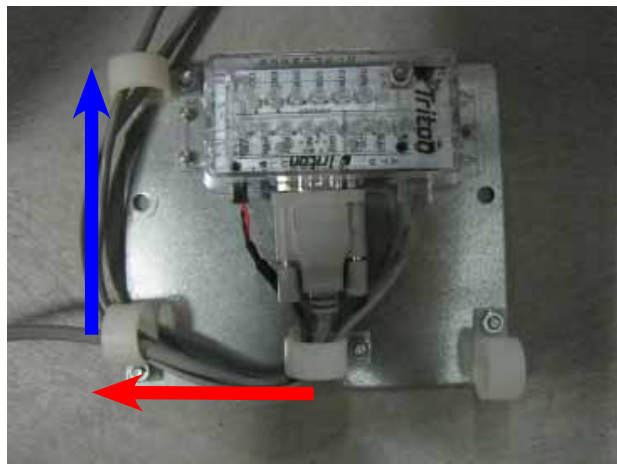
8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



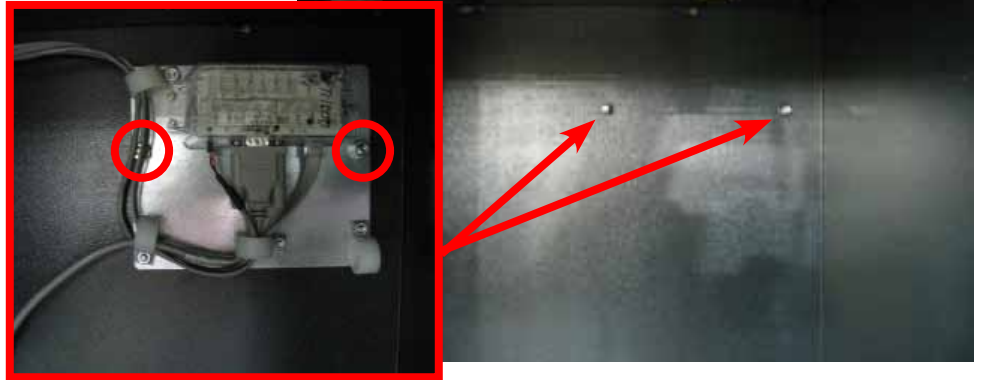
9. Attach four quick release cable clips to the mounting bracket using four 8/32 Hex Nuts. Ensure the orientation of the clips matches the picture as shown. Route the cables through the middle cable clip as shown.



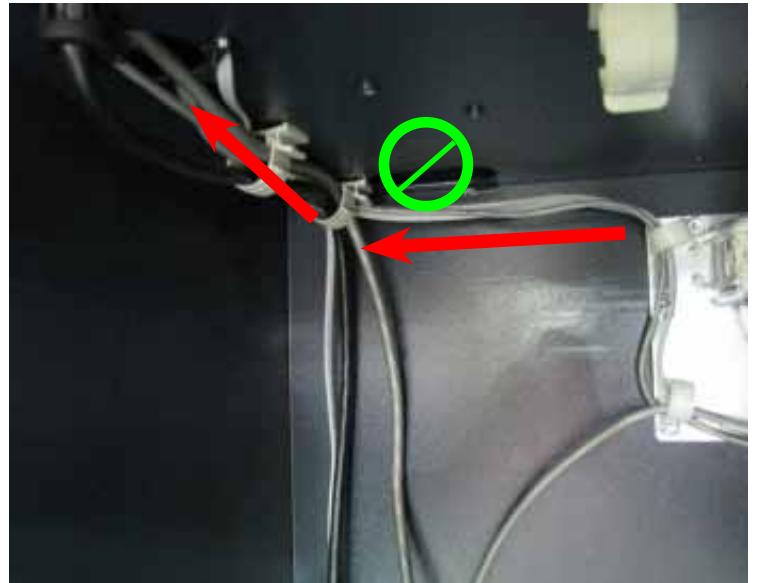
10. Route all the cables through the left lower cable clip (red arrow). Continue to route the security module power cable and the security module communication cable up through the upper left cable clip as shown (blue arrow).



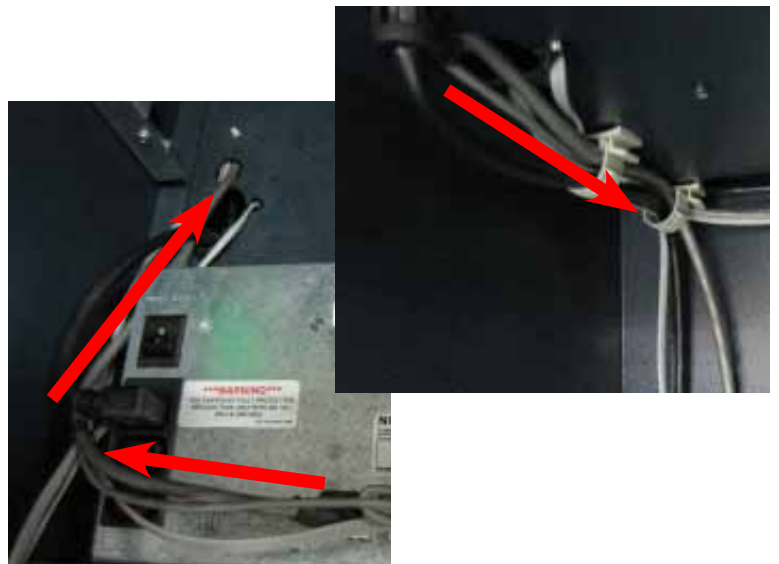
11. Mount the assembly onto the two posts on the back wall of the inner cabinet with two 1/4-20 Hex Jam Nuts as shown. Ensure the cable connections face down.



12. Route the security module power cable and security module communications cable past the back opening (green circle) and through the upper left cable clips. Route the cables into the upper portion of the cabinet through the left hole opening.



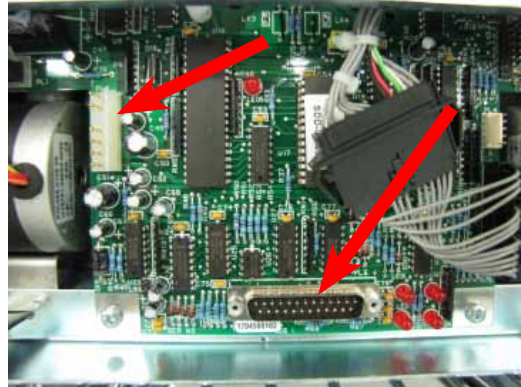
13. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet. Route the cable through the two left side cable clips.



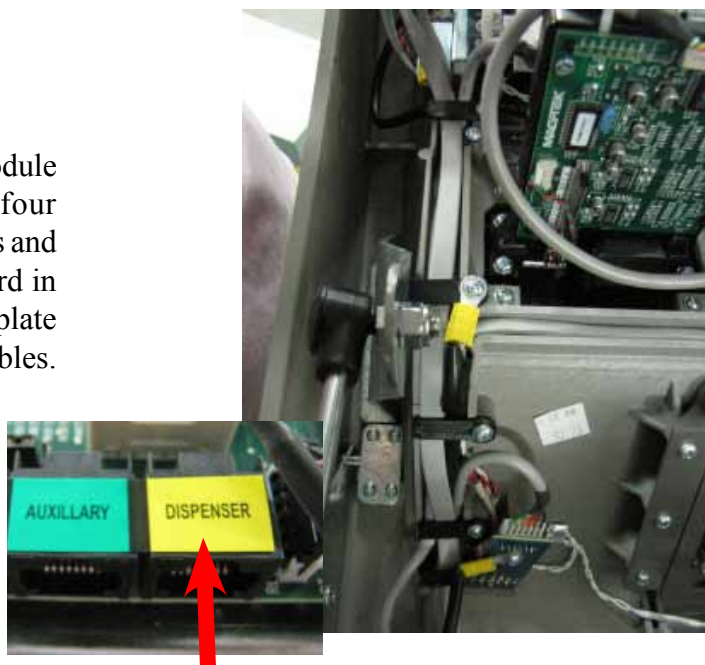
14. Loop the SDD dispenser communication cable back on itself twice to condense the length of the cable to match the length of the dispenser power cable. TY Wrap the two cables together in two spots as shown. Cut off the excess TY Wraps.



15. Plug the cables into the back of the SDD dispenser and tighten the thumbscrews on the communication cable to secure it. Reinstall the dispenser into the unit.



16. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



- 17.** Route the security module communication and security module power cable around the unit's main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess (green arrows).



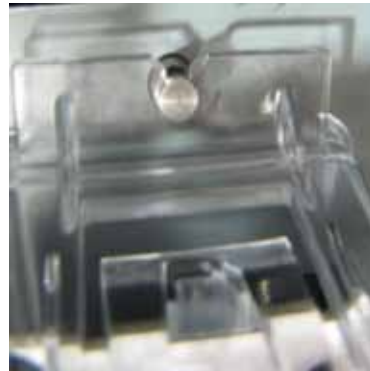
- 18.** To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

**Cabinet # 03015-00793 / 03015-00833 / 03015-01340 with an SDD
Dispenser
Left Side Mounting**

8. Insert the two posts on the cabinet wall into the two notches on the bottom of the security module as shown.



9. Gently push the security module down flexing the plastic ends slightly. Insert the single post on the cabinet wall into the notch on the top of the security module as shown. Ensure the security module is sitting flush against the cabinet wall.



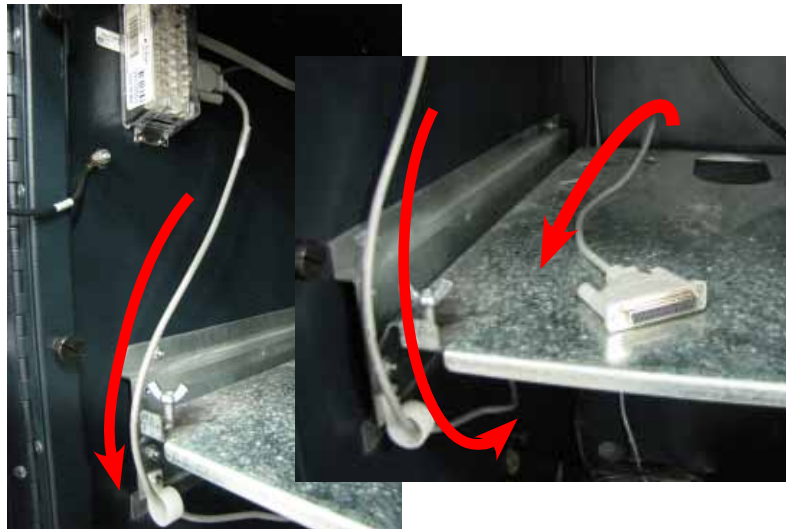
10. Install a quick release cable clip with one 8/32 hex nut to the back left wall of the cabinet as shown.



- 11.** Install a quick release cable clip with one 8/32 screw to the left dispenser bracket as shown.



- 12.** Route the dispenser communication cable down in front of the dispenser tray, through the quick release cable clip and under the tray. Pull all excess cable up from behind the tray as shown.



- 13.** Route the security module power cable and the security module communication cable through the quick release cable clip and into the upper cabinet through the back left opening as shown.



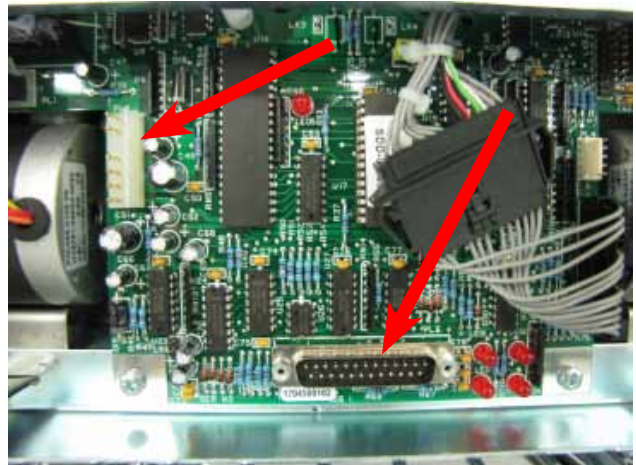
14. Install a quick release cable clip with one 8/32 screw in the rear left of the upper cabinet.



15. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet.



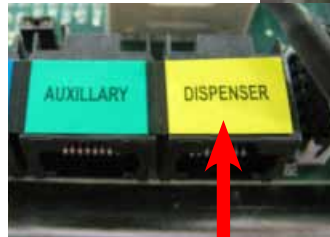
16. Plug the cables into the back of the SDD dispenser and tighten the thumbscrews on the communication cable to secure it. Reinstall the dispenser into the unit.



17. Route all the cables in the upper cabinet through the cable clip previously installed. Route the cables under the bracket as shown.



18. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



19. Route the security module communication and security module power cable around the unit’s main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

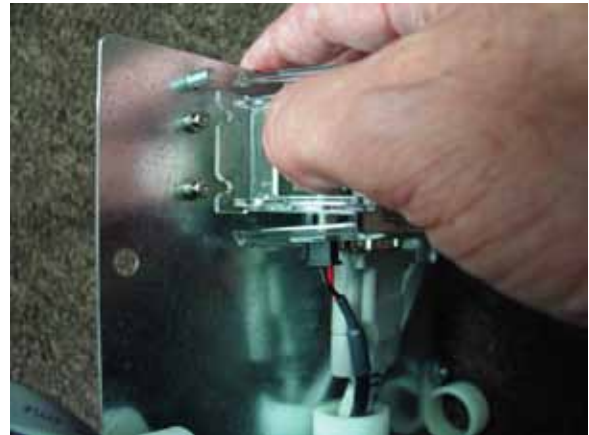
Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess.



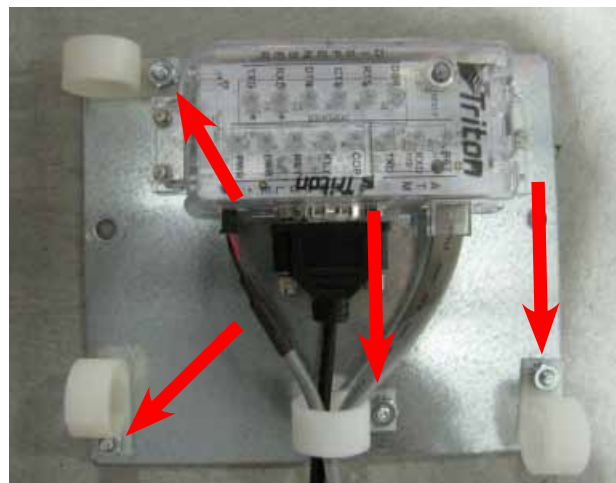
20. To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

**Vault # 03015-00064 / 03015-00200 / 03015-00227 with an SDD Dispenser
Back Wall Mounting**

8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



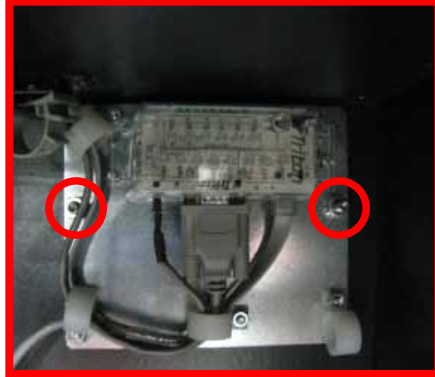
9. Attach four quick release cable clips to the mounting bracket using four 8/32 Hex Nuts. Ensure the orientation of the clips matches the picture as shown. Route the cables through the middle cable clip as shown.



10. Route the all the cables through the left lower cable clip (red arrow). Continue to route the security module power cable and the security module communication cable up through the upper left cable clip as shown (blue arrow).



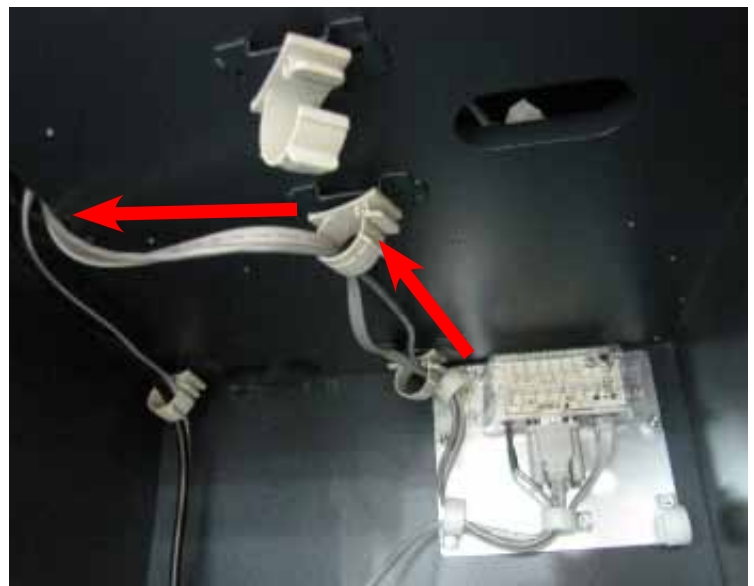
- 11.** Mount the assembly onto the two posts on the back wall of the inner vault with two 1/4-20 Hex Jam Nuts as shown. Ensure the cable connections face down.



- 12.** From the upper portion of the cabinet, remove the two bolts & washers securing the anti-phishing bracket. Set aside for reinstallation.



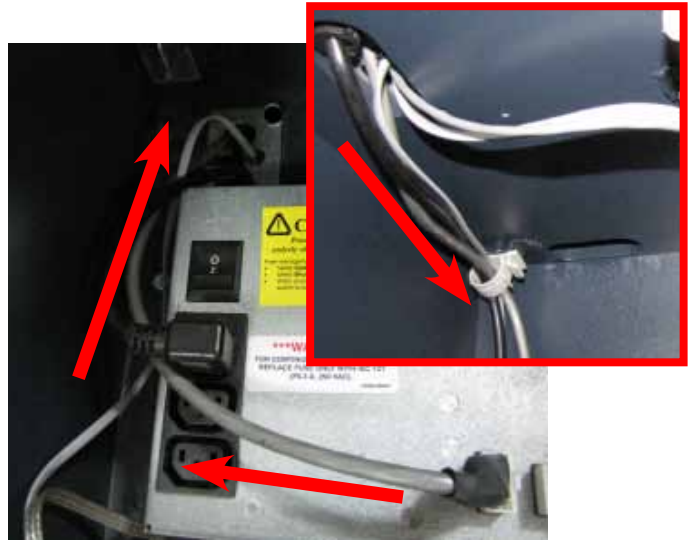
- 13.** Route the security module power cable and security module communications cable through the upper middle back two clips. Route the cables into the upper portion of the cabinet through the left hole opening and the anti-phishing bracket as shown.



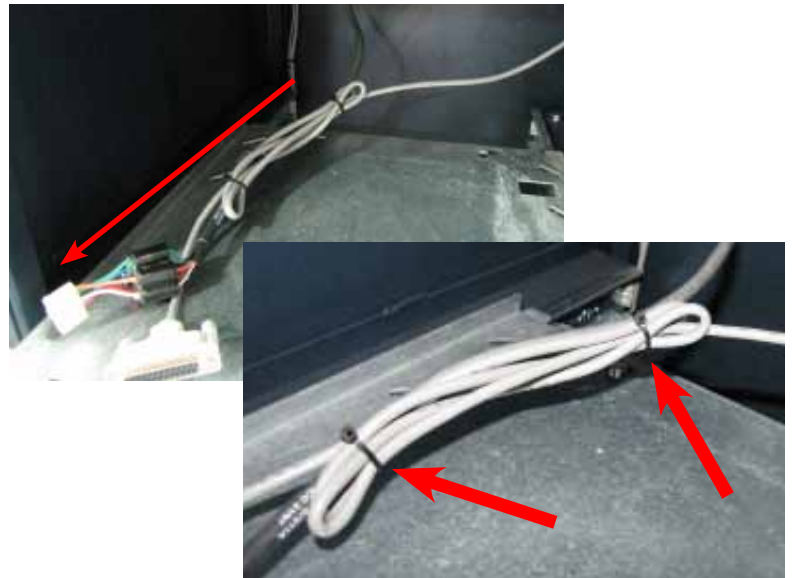
EJ TO SECURITY MODULE UPGRADE PROCEDURES

14. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the anti-phishing bracket and the left hole opening into the vault. Route the dispenser power cable through the rear left cable clip as shown.

Reinstall the two washers and two bolts to secure the anti-phishing bracket.



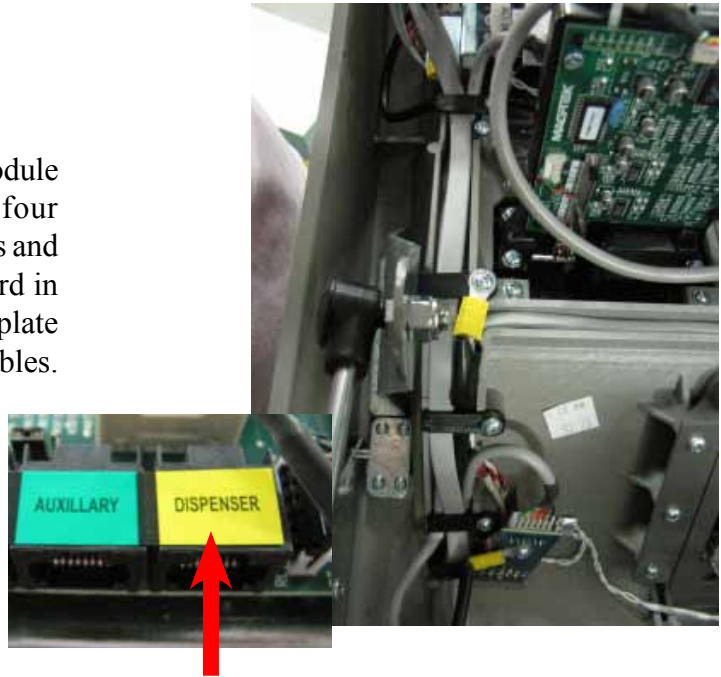
15. Loop the SDD communication cable back on itself twice to condense the length of the cable to match the length of the dispenser power cable. TY Wrap the two cables together in two spots as shown. Cut off the excess TY Wraps.



16. Plug the cables into the back of the SDD and tighten the thumbscrews on the communication cable to secure it. Reinstall the dispenser into the unit.



17. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



18. Route the security module communication and security module power cable around the unit’s main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess (green arrows).



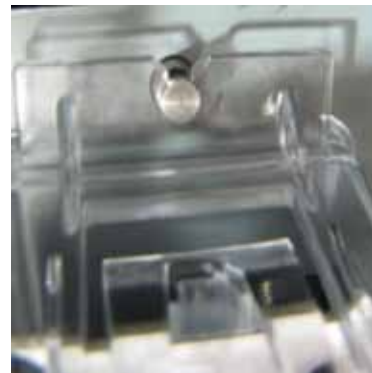
19. To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

**Vault # 03015-00798 / 03015-00212 / 03015-00841 with an SDD
Dispenser
Left Wall Mounting**

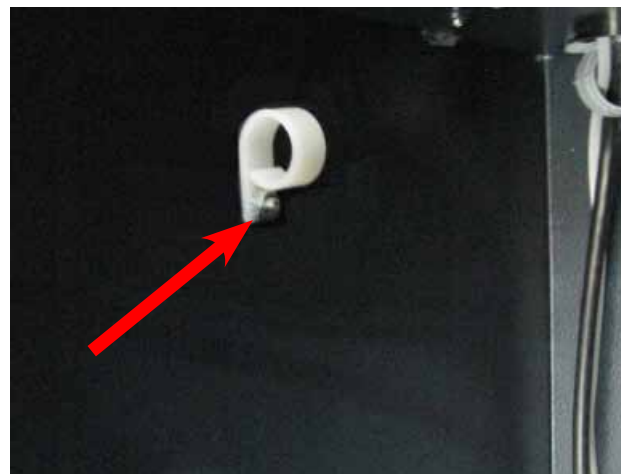
8. Insert the two posts on the cabinet wall into the two notches on the bottom of the security module as shown.



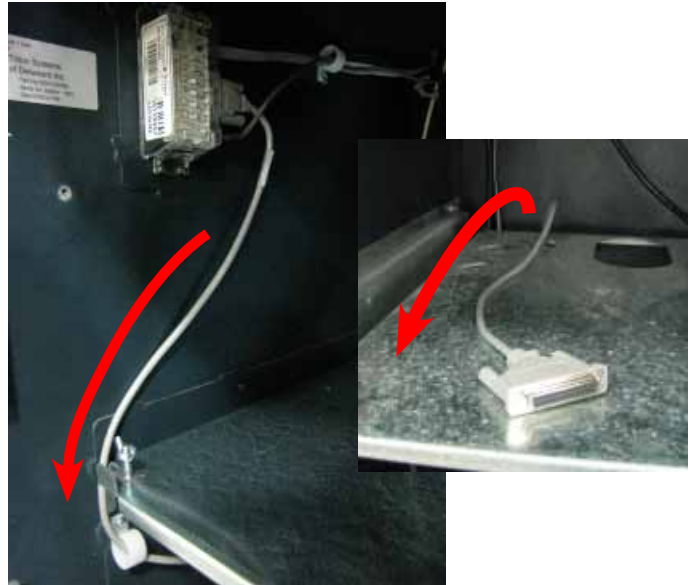
9. Gently push the security module down flexing the plastic ends slightly. Insert the single post on the cabinet wall into the notch on the top of the security module as shown. Ensure the security module is sitting flush against the cabinet wall.



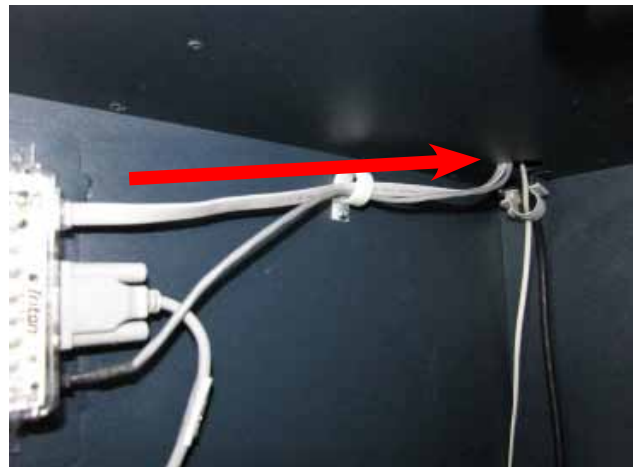
10. Install a quick release cable clip with one 8/32 screw to the back left wall of the cabinet as shown.



11. Install a quick release cable clip with one 8/32 screw to the left dispenser bracket as shown. Route the dispenser communication cable down in front of the dispenser tray, through the quick release cable clip and under the tray. Pull all excess cable up from behind the tray as shown.



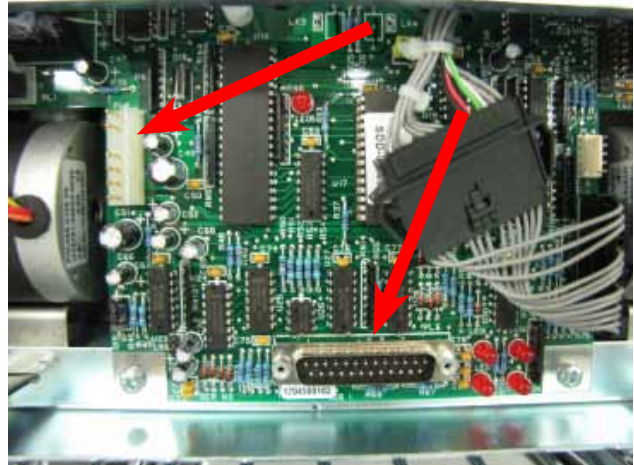
12. Route the security module power cable and the security module communication cable through the quick release cable clip and into the upper cabinet through the back left opening and the anti-phishing bracket as shown.



13. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet.



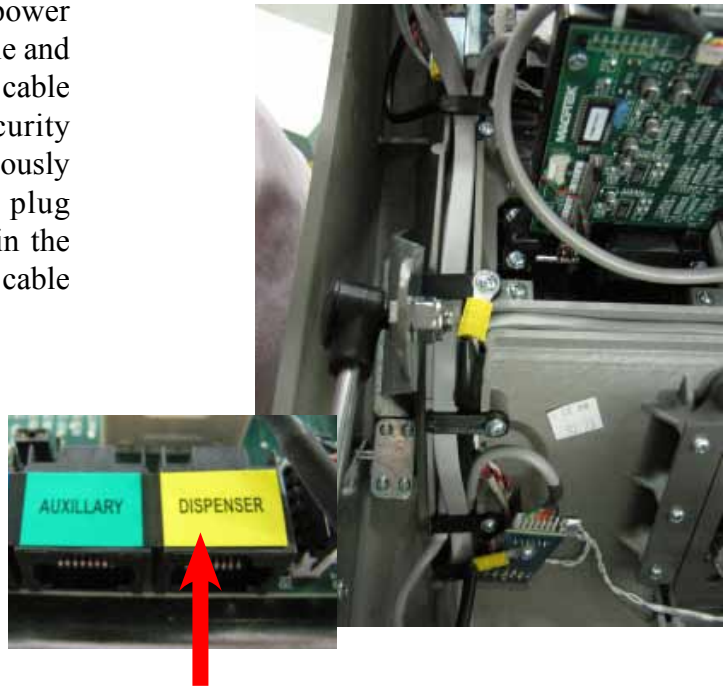
14. Plug the cables into the back of the SDD dispenser and tighten the thumbscrews on the communication cable to secure it. Reinstall the dispenser into the unit.



15. Ensure all extra security module communication cable and security module power cable is pulled into the upper cabinet. TY Wrap all the cables together as shown and cut off excess TY Wrap. Route the cables under the bracket as shown.



16. In the upper cabinet, route the security module communication and security module power cable around the unit's main power cable and over the power supply. Plug the power cable into the power supply. Route the security module cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the "dispenser" jack. Tighten the wire plate cable clips to secure the control panel cables.



17. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess.



18. To complete the security module install, perform "Synchronizing the Security Module to the Mainboard" on page 1A-3.

SECTION 1B

ELECTRONIC JOURNAL TO SECURITY MODULE UPGRADE RL5000 CABINET OR VAULT NMD50

07103-00224 DECEMBER 12, 2013

EJ TO SECURITY MODULE UPGRADE PROCEDURES

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#2 Phillips screwdriver with a 4 inch shank 11/32" & 7-16" hollow shaft nut drivers Side cut pliers USB flash drive Small paperclip (straightened out)
KIT 06200-00186	RL5000 Cabinet/Vault with NMD50 - EJ to SM Conversion Kit

Part #	Description	Qty
1	FT/RL/Traverse Live- (PPA) Security Module v2.1	1
2	TDM/SM Communication Cable, 63" ROHS	1
3	Security Module Power Cable ROHS	1
4	NMD50 Data Cable	1
5	NMD50 Power Cable	1
6	Security Module Flat Bracket	1
7	3/4" Round Screw-In Quick Release Cable Clip	4
8	8/32 Hex Nut Ext Tooth Washer	4
9	1/4-20 Nylon Lock Hex Jam Nut	2
10	#8-32 3/8 Inch Pan Phil Head Screw Ext Tooth Washer	2
11	1/4-20 X 3/8 Hex Bolt	2
12	6 Inches TY Wraps	5
13	Panduit Adhesive Cable Clip	3

Ensure the most up-to-date software is installed on the unit BEFORE proceeding.

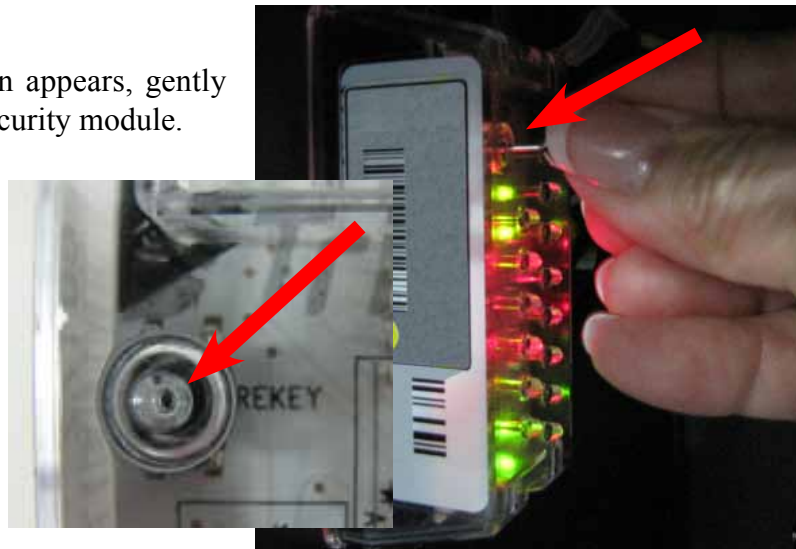
For additional cable organization, Close Out Plate KIT 06200-08211 should be ordered and installed into the unit.

Skip to page 5 and perform the security module installation and cable routing BEFORE completing the “Synchronizing the Security Module...” instructions.

Synchronizing the Security Module to the Mainboard

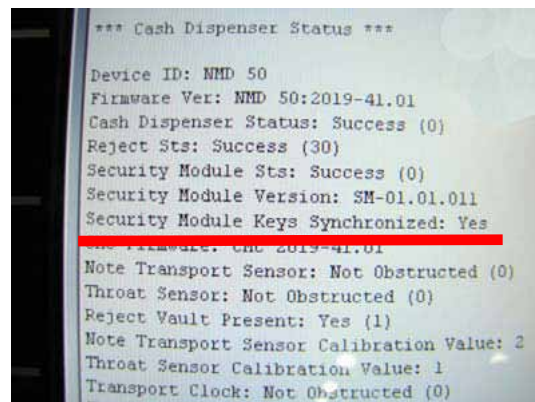
1. Open the upper cabinet and power up the unit by flipping the power switch on the unit’s power supply to the ON position (I).
2. Press and hold the “blank” key on the keypad and then press the “1” key.
3. Enter your password to log into Management Functions and press ENTER.
4. If applicable, press “0” to navigate to the Main Menu page.
5. On the Main Menu page, press “2” Diagnostics.
6. On the Terminal Diagnostics page, press “4” Dispenser.
7. On the Cash Dispenser Diagnostics page, press “7” Initialize Dispenser.

8. When the confirmation screen appears, gently insert the paperclip into the security module.



9. Press ENTER on the keypad.
10. When the “Dispenser initialize is complete” screen appears, press Enter to return to the Cash Dispenser Diagnostics page.

11. Press “1” Cash Dispenser Status. Review the status report to ensure the “Security Module Keys Synchronized” states “Yes”. If “No”, repeat Steps 7 - 11.



12. Press ENTER on the keypad 3 times to exit out of Management Functions. Return the ATM to customer mode.

EJ TO SECURITY MODULE UPGRADE PROCEDURES

RL5000 UPGRADE

BEFORE PROCEEDING:

- Ensure all of your Journal Records have been saved to a USB flash drive.
- Perform a proper management function shut down 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.
- Open the dispenser area.

Removal

1. Refer to the applicable service manual for your unit for steps to remove your dispenser. Removal of the dispenser will provide the working room necessary to accomplish the upgrade.
2. Disconnect the dispenser communications and power cables from the dispenser. Loosen the four wire plate cable clips securing the control panel cables. Unplug the dispenser communication from the mainboard and the dispenser power cable from the power supply and remove from the unit. Set aside for reinstallation.
3. Disconnect the dispenser to EJ cable and remove the cable. Discard cable.
4. Disconnect the EJ to docking board or mainboard cable as applicable and remove the cable. Discard.
5. Remove the hardware attaching the EJ to the side or rear of the cabinet and remove the EJ. Discard.

Installation

6. Connect the new dispenser communication cable to the new security module. Tighten the thumbscrews to secure the cable.



7. Connect the security module power cable and communications cable to the new security module as shown.



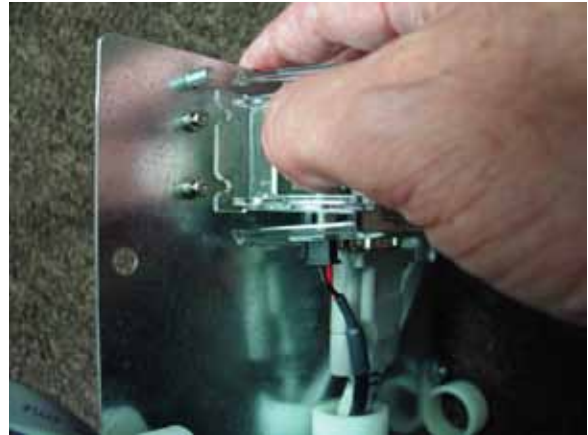
RL5000

Use the table of contents below to locate your unit's serial number and page number of the correct installation and cable routing.

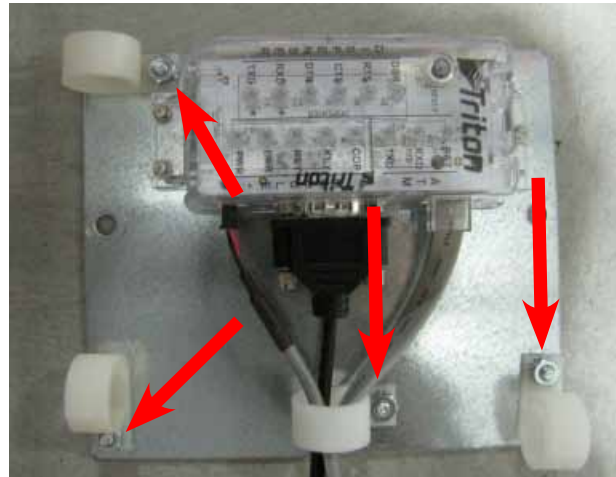
Cabinet Serial Number	Cabinet Part Number	Page #
<u>LRL511503251xxxx - LRL511504295xxxx</u>	97000-00000	6
<u>LRL511504296xxxx - LRL511509339xxxx</u> <u>LRL531507340xxxx - LRL531509314xxxx</u>	03015-00052, 03015-00167	12
<u>LRL531509315xxxx - LRL531510192xxxx</u>	03015-00793, 03015-00833, 03015-01340	18
<u>LRL512503297xxxx - LRL512507378xxxx</u> <u>LRL532507340xxxx - LRL532509214xxxx</u>	03015-00064, 03015-00200, 03015-00227	24
<u>LRL532509215xxxx - LRL532510187xxxx</u>	03015-00798, 03015-00212, 03015-00841	30

Cabinet # 09700-00000 with an NMD 50 Dispenser Right Side Mounting

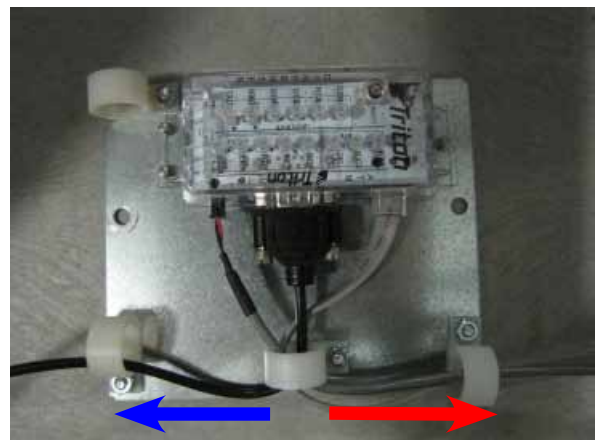
8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



9. Attach four quick release cable clips to the mounting bracket using four 8/32 Hex Nuts. Ensure the orientation of the clips matches the picture as shown. Route the cables through the middle cable clip.



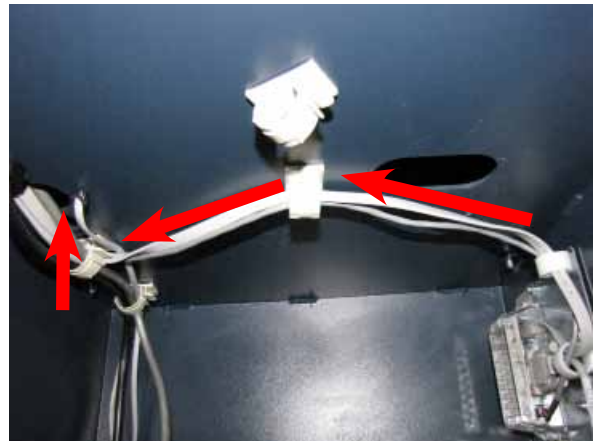
10. Route the dispenser data cable through the left lower clip (blue arrows). Route the security module power and security module communication cables through the right clip (red arrow).



11. Mount the assembly onto the two posts on the right side of the inner cabinet with two 1/4-20 Hex Jam Nuts as shown. Ensure the cable connections face towards the cabinet door.



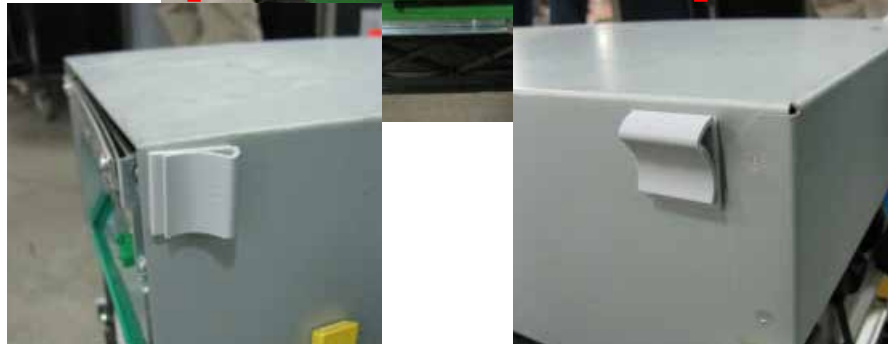
12. Route the security module power cable and the security module communication cable through the upper back middle cable clip and the upper left front cable clip as shown. Route the excess power and communication cable into the upper cabinet through the left hole opening.



13. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet.



14. With the dispenser still removed from the unit, peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the back right side of the NMD50 dispenser. Peel the paper backing off another Panduit Adhesive Cable Clip and adhere it to the front right side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



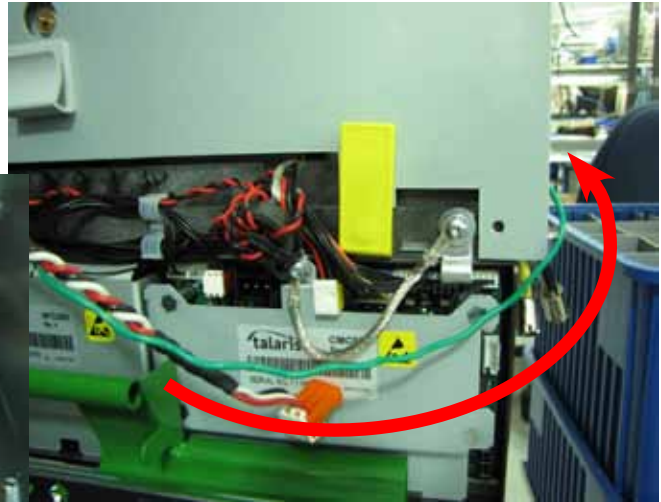
15. Peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the front left side of the NMD50 dispenser. Note the orientation of the clip in the picture.



16. Remove the cassettes from the NMD50 if installed. Pull both slides out fully and ensure they lock into place. Set the dispenser into position ensuring the posts on the rails sit securely in the handle's notches. Reinstall the cassettes.



17. Route the ground wire around to the front of the dispenser. Plug the ground wire onto the quick connect as shown.



18. Plug the Dispenser Power Cable into the side of the NMD50 as shown.



19. Tuck the ground wire under the clip on the side of the dispenser. Route the power cable through the two cable clips along the left side of the dispenser. Route the cable around to the rear of the dispenser and through the cable clip on the back left side of the NMD50.



20. Route the Dispenser data cable from the security module assembly through the two cable clips on the right side of the NMD50 dispenser as shown.

(Dispenser removed from the unit for clarification)



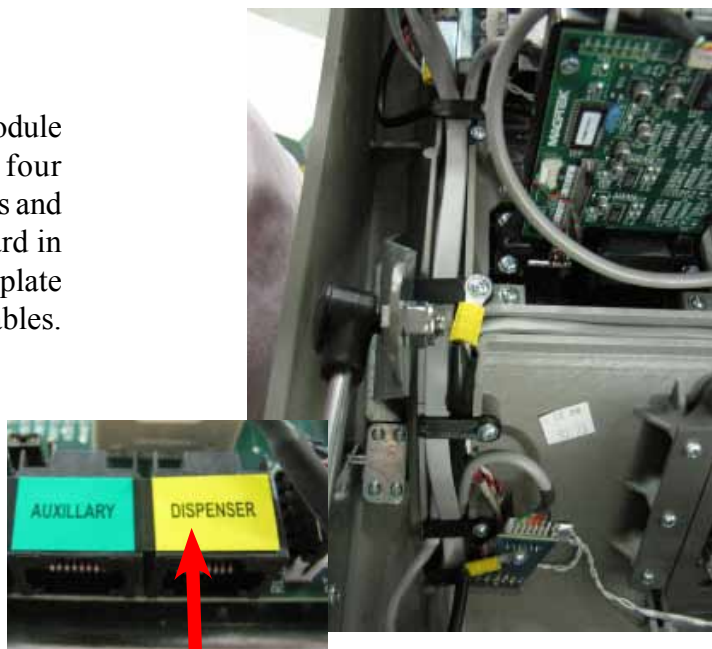
21. Route the Dispenser data cable across the top of the dispenser, through the cable clip on the left side of the dispenser and plug it into the dispenser as shown.

(Dispenser removed from the unit for clarification)

Unlock the slides and push the dispenser into the cabinet.



22. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



- 23.** Route the security module communication and security module power cable around the unit's main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

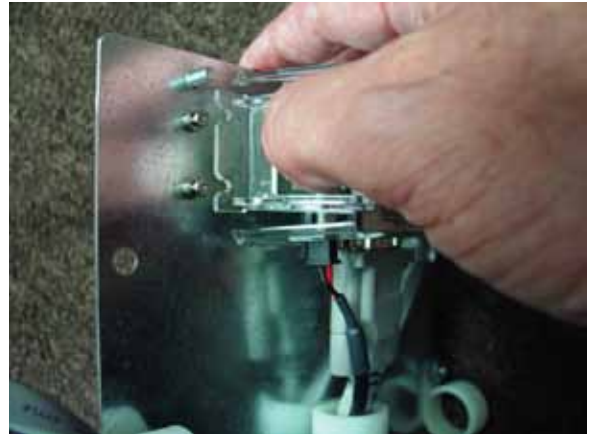
Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess (green arrows).



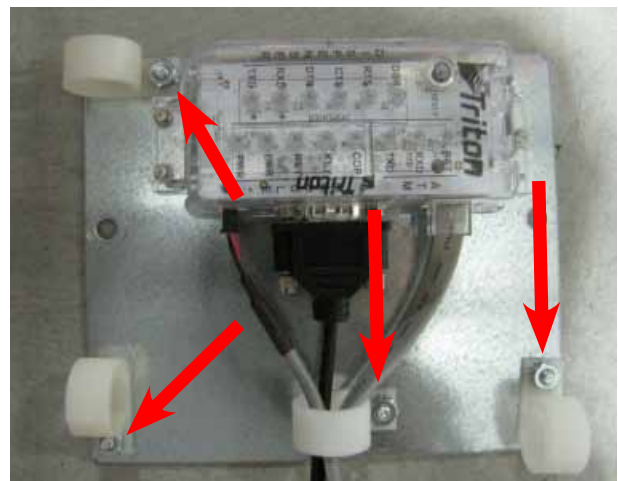
- 24.** To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

Cabinet # 03015-00052 & 03015-00167 with an NMD 50 Dispenser Back Wall Mounting

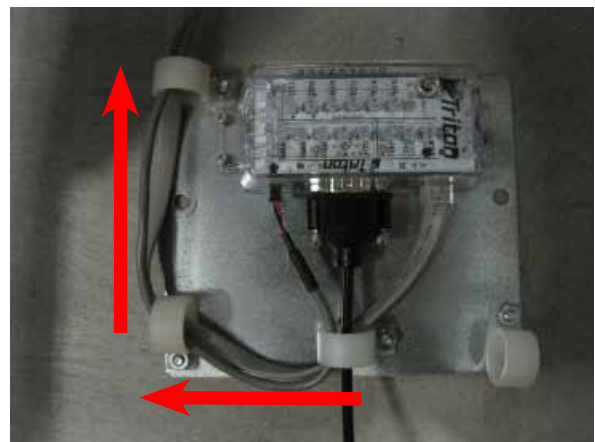
8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



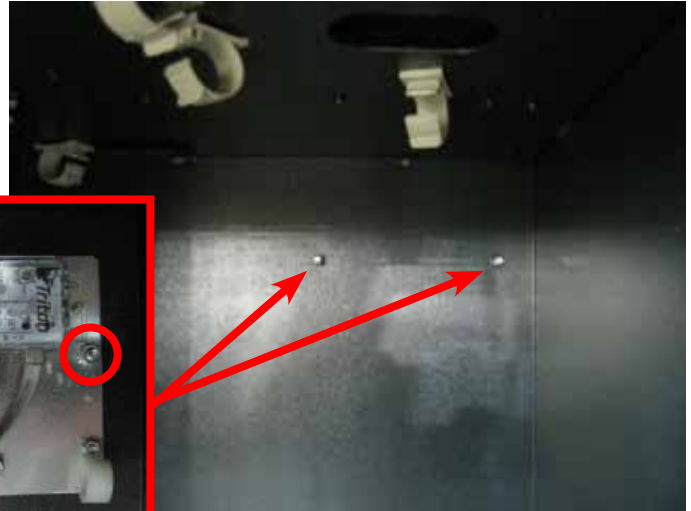
9. Attach four quick release cable clips to the mounting bracket using four 8/32 Hex Nuts. Ensure the orientation of the clips matches the picture as shown. Route the cables through the middle cable clip.



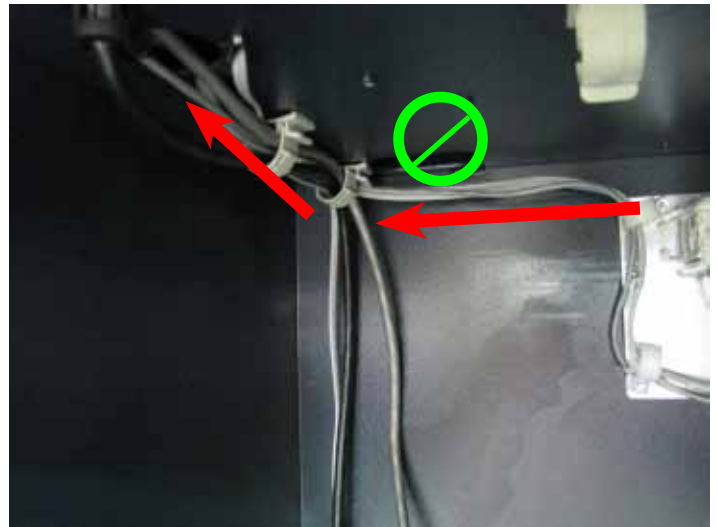
11. Route the security module power cable and the security module communication cable through the left lower and upper cable clips as shown.



12. Mount the assembly onto the two posts on the back wall of the inner cabinet with two 1/4-20 Hex Jam Nuts as shown. Ensure the cable connections face down.



13. Route the security module power cable and security module communications cable past the back opening (green circle) and through the upper left cable clips. Route the cables into the upper portion of the cabinet through the left hole opening.



14. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet.



15. With the dispenser still removed from the unit, peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the back right side of the NMD50 dispenser. Peel the paper backing off another Panduit Adhesive Cable Clip and adhere it to the front right side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



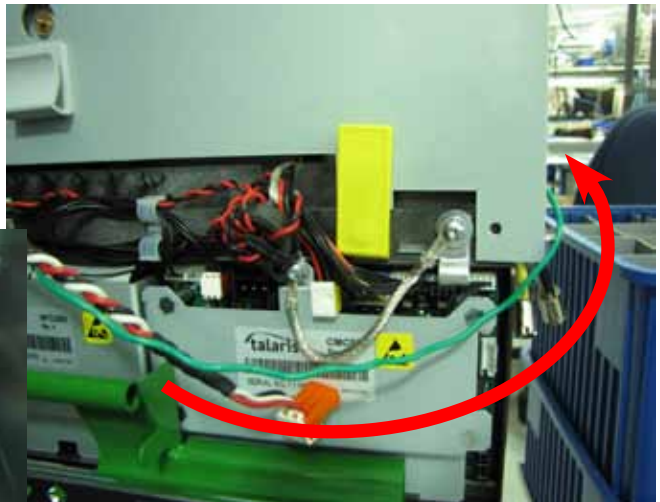
16. Peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the front left side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



17. Remove the cassettes from the NMD50 if installed. Pull both slides out fully and ensure they lock into place. Set the dispenser into position ensuring the posts on the rails sit securely in the handle's notches. Reinstall the cassettes.



18. Route the ground wire around to the front of the dispenser. Plug the ground wire onto the quick connect as shown.



19. Plug the Dispenser Power Cable into the side of the NMD50 as shown.



20. Tuck the ground wire under the clip on the side of the dispenser. Route the power cable through the two cable clips along the left side of the dispenser. Route the cable around to the rear of the dispenser and through the cable clip on the back left side of the NMD50.



21. Route the Dispenser data cable from the security module assembly through the two cable clips on the right side of the NMD50 dispenser as shown.

(Dispenser removed from the unit for clarification)



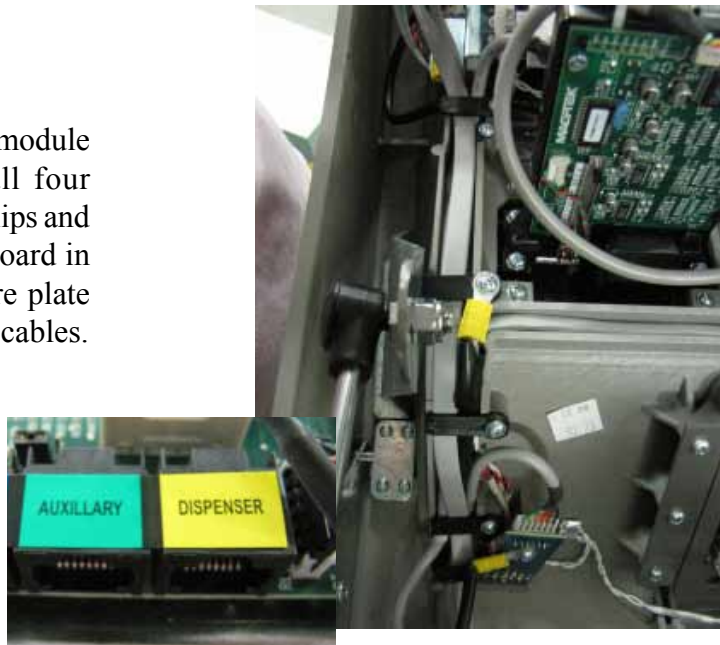
22. Route the Dispenser Communication Cable across the top of the dispenser, through the cable clip on the left side of the dispenser and plug it into the dispenser as shown.

(Dispenser removed from the unit for clarification)

Unlock the slides and push the dispenser into the cabinet.



24. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



- 23.** Route the security module communication and security module power cable around the unit's main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

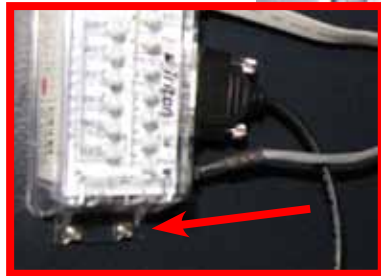
Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess (green arrows).



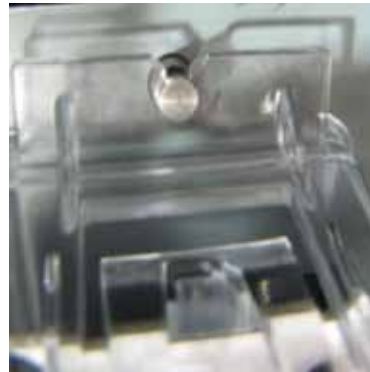
- 24.** To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

**Cabinet # 03015-00793 / 03015-00833 / 03015-01340 with an NMD 50
Dispenser
Left Side Mounting**

8. Insert the two posts on the cabinet wall into the two notches on the bottom of the security module as shown.



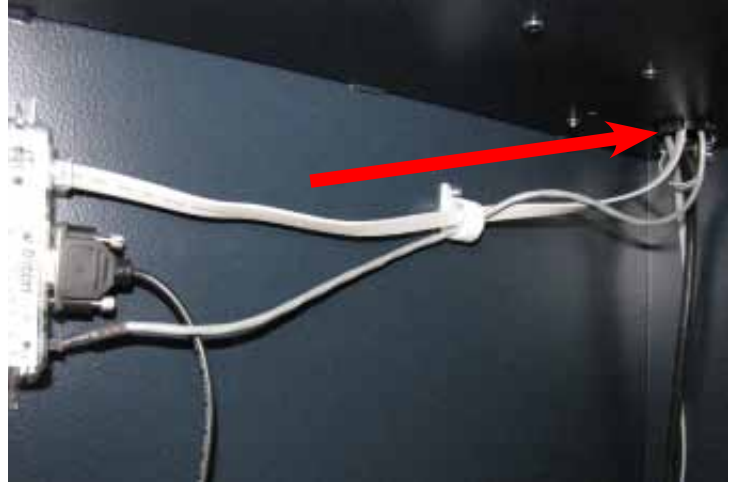
9. Gently push the security module down flexing the plastic ends slightly. Insert the single post on the cabinet wall into the notch on the top of the security module as shown. Ensure the security module is sitting flush against the cabinet wall.



10. Install a quick release cable clip with one 02054-00169 screw to the back left wall of the cabinet as shown.



- 11.** Route the security module power cable and the security module communication cable through the quick release cable clip and into the upper cabinet through the back left opening as shown.



- 12.** Install a quick release cable clip with one 02054-00169 screw in the rear left of the upper cabinet.



- 13.** Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet.



14. With the dispenser still removed from the unit, peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the back right side of the NMD50 dispenser. Peel the paper backing off another Panduit Adhesive Cable Clip and adhere it to the front right side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



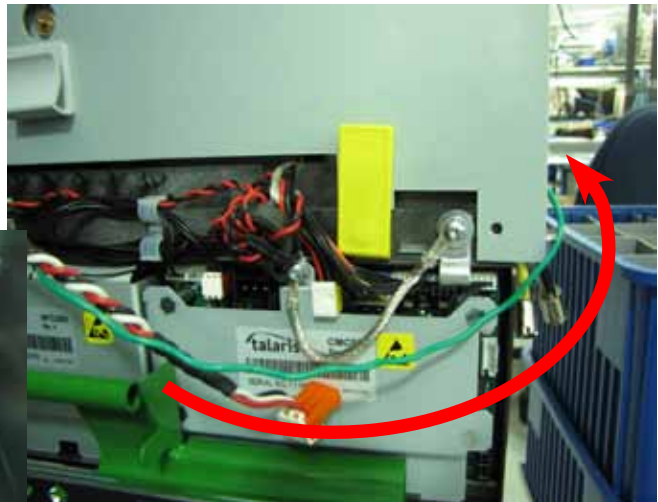
15. Peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the front left side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



16. Remove the cassettes from the NMD50 if installed. Pull both slides out fully and ensure they lock into place. Set the dispenser into position ensuring the posts on the rails sit securely in the handle's notches. Reinstall the cassettes.



17. Route the ground wire around to the front of the dispenser. Plug the ground wire onto the quick connect as shown.



18. Plug the Dispenser Power Cable into the side of the NMD50 as shown.



19. Tuck the ground wire under the clip on the side of the dispenser. Route the power cable through the two cable clips along the left side of the dispenser. Route the cable around to the rear of the dispenser and through the cable clip on the back left side of the NMD50.



EJ TO SECURITY MODULE UPGRADE PROCEDURES

- 20.** Route the Dispenser data cable from the security module assembly through the two cable clips on the right side of the NMD50 dispenser as shown.

(Dispenser removed from the unit for clarification)



- 21.** Route the Dispenser Communication Cable across the top of the dispenser, through the cable clip on the left side of the dispenser and plug it into the dispenser as shown.

(Dispenser removed from the unit for clarification)

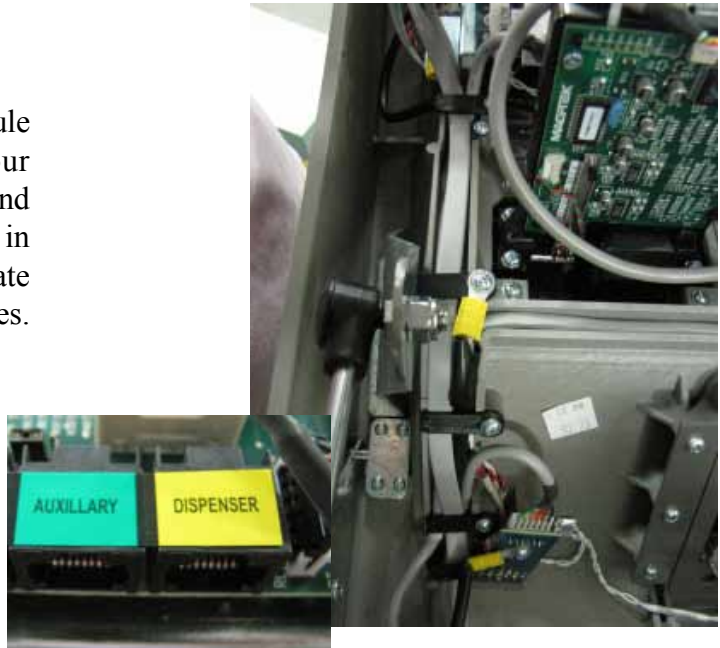
Unlock the slides and push the dispenser into the cabinet.



- 22.** In the upper cabinet, route all the cables through the cable clip previously installed. Route the cables under the bracket as shown.

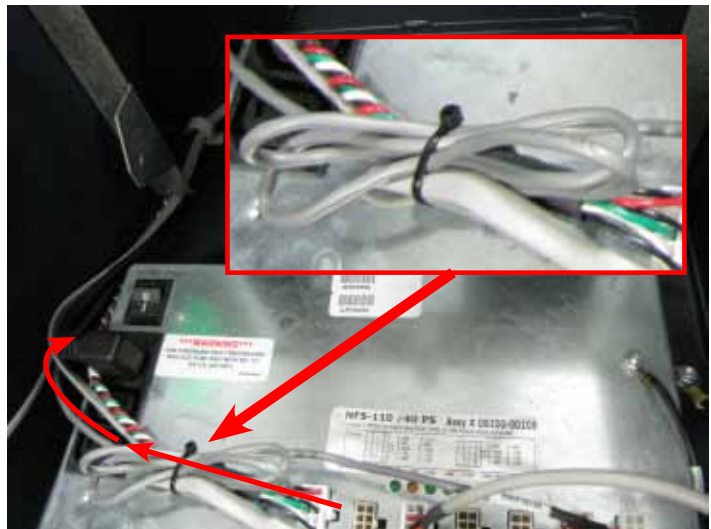


23. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



24. Route the security module communication and security module power cable around the unit’s main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess



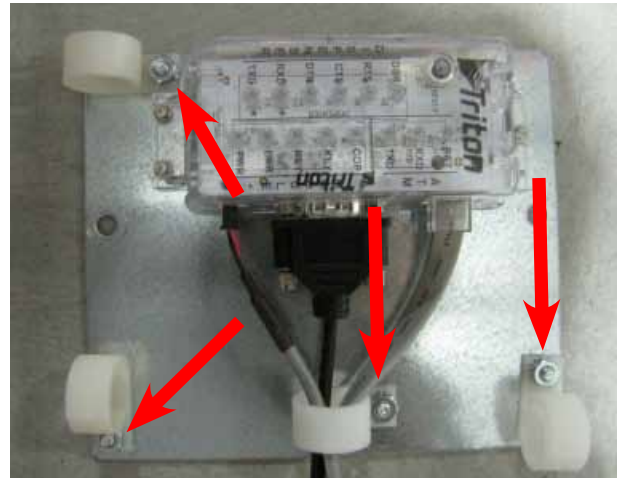
25. To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

**Vault # 03015-00064 / 03015-00200 / 03015-00227 with an NMD 50 Dispenser
Back Wall Mounting**

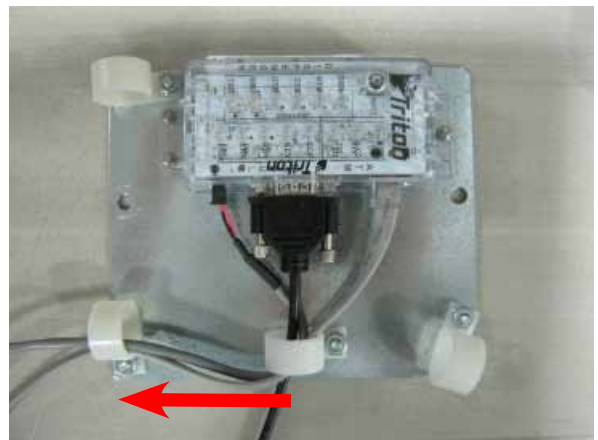
8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



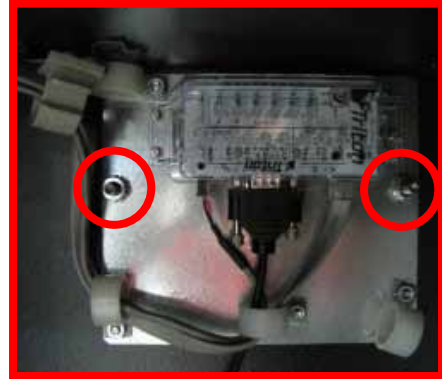
9. Attach four quick release cable clips to the mounting bracket using four 8/32 Hex Nuts. Ensure the orientation of the clips matches the picture as shown. Route the cables through the middle cable clip.



10. Route the security module power cable and the security module communication cable through the left lower cable clip as shown.



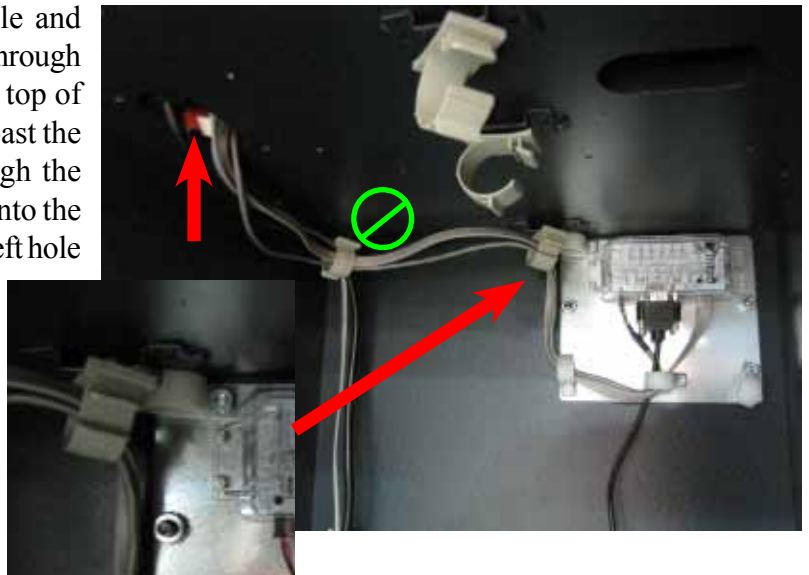
11. Mount the assembly onto the two posts on the back wall of the inner vault with two 1/4-20 Hex Jam Nuts as shown. Ensure the cable connections face down.



12. From the upper portion of the cabinet, remove the two bolts & two washers that secure the anti-phishing bracket. Set aside for reinstallation.



13. Route the security module power cable and security module communications cable through the rear upper middle cable clip on the top of the vault. Continue routing the cables past the back opening (green circle) and through the upper left cable clip. Route the cables into the upper portion of the cabinet through the left hole opening and the anti-phishing bracket.



14. Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the anti-phishing bracket and the left hole opening into the lower cabinet.

Reinstall the two washers and two bolts to secure the anti-phishing bracket.



15. With the dispenser still removed from the unit, peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the back right side of the NMD50 dispenser. Peel the paper backing off another Panduit Adhesive Cable Clip and adhere it to the front right side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



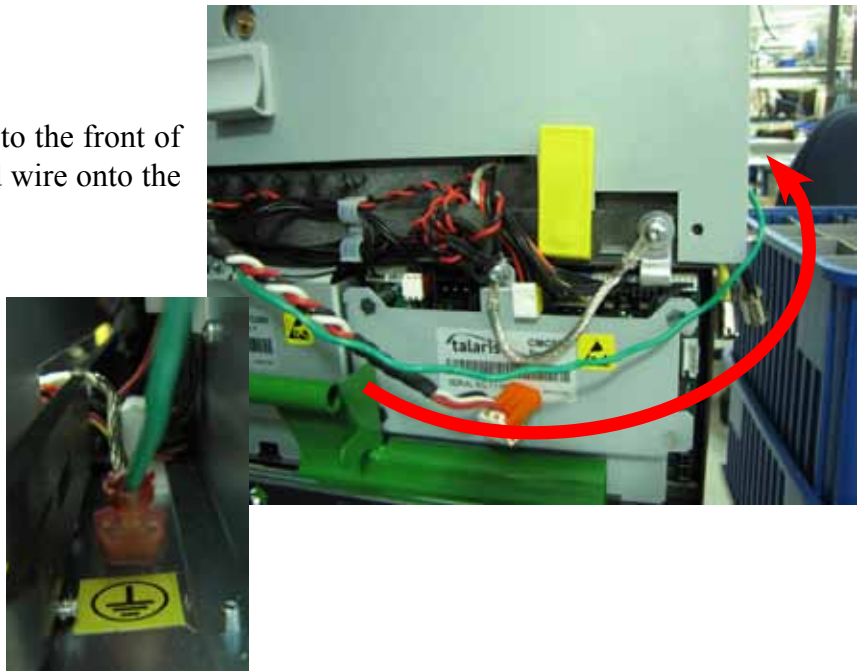
16. Peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the front left side of the NMD50 dispenser. Note the orientation of the clip in the picture.



17. Remove the cassettes from the NMD50 if installed. Pull both slides out fully and ensure they lock into place. Set the dispenser into position ensuring the posts on the rails sit securely in the handle's notches. Reinstall the cassettes.



18. Route the ground wire around to the front of the dispenser. Plug the ground wire onto the quick connect as shown.



19. Plug the Dispenser Power Cable into the side of the NMD50 as shown.



20. Tuck the ground wire under the clip on the side of the dispenser. Route the power cable through the two cable clips along the left side of the dispenser. Route the cable around to the rear of the dispenser and through the cable clip on the back left side of the NMD50.



21. Route the Dispenser data cable from the security module assembly through the two cable clips on the right side of the NMD50 dispenser as shown.

(Dispenser removed from the unit for clarification)



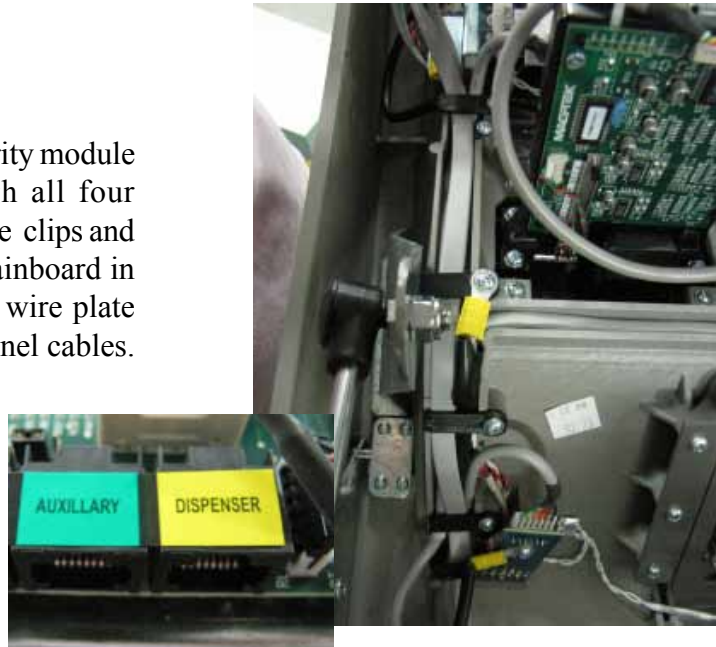
22. Route the Dispenser Communication Cable across the top of the dispenser, through the cable clip on the left side of the dispenser and plug it into the dispenser as shown.

(Dispenser removed from the unit for clarification)

Unlock the slides and push the dispenser into the cabinet.



23. In the upper cabinet, route the security module communication cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the “dispenser” jack. Tighten the wire plate cable clips to secure the control panel cables.



24. Route the security module communication and security module power cable around the unit's main power cable and over the power supply (red arrows). Plug the power cable into the power supply.

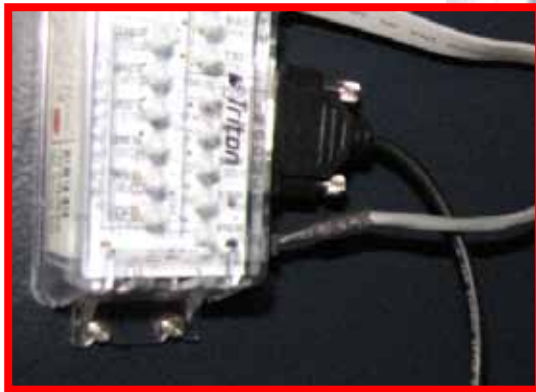
Ensure all excess security module power and communication cable is pulled into the upper cabinet. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess. TY Wrap the cables on the side of the power supply and cut off excess (green arrows).



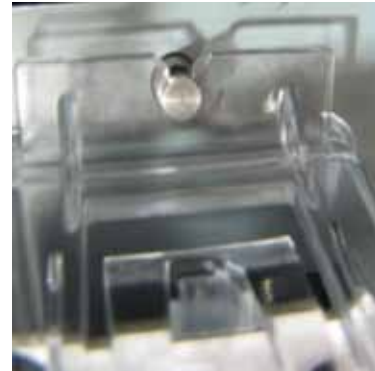
25. To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 1A-3.

**Vault # 03015-00798 / 03015-00212 / 03015-00841 with an NMD 50
Dispenser
Side Wall Mounting**

8. Insert the two posts on the cabinet wall into the two notches on the bottom of the security module as shown.



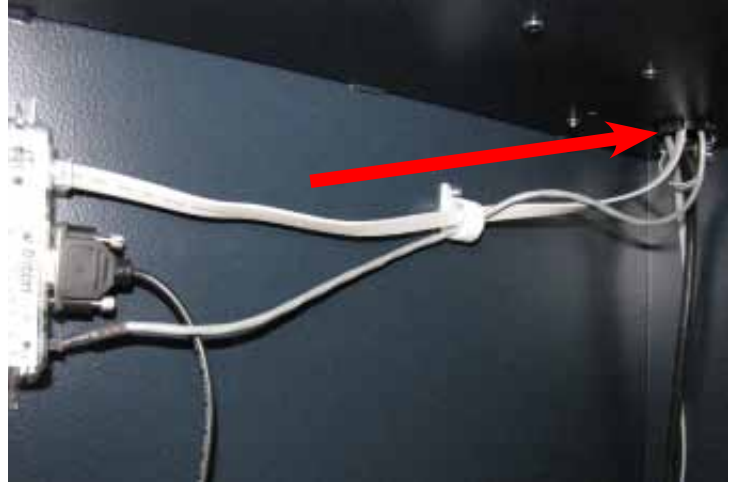
9. Gently push the security module down flexing the plastic ends slightly. Insert the single post on the cabinet wall into the notch on the top of the security module as shown. Ensure the security module is sitting flush against the cabinet wall.



10. Install a quick release cable clip with one 8/32 hex nut to the back left wall of the vault as shown.



- 11.** Route the security module power cable and the security module communication cable through the quick release cable clip and into the upper cabinet through the back left opening as shown.



- 12.** Install a quick release cable clip with one 8/32 screw in the rear left of the upper cabinet.

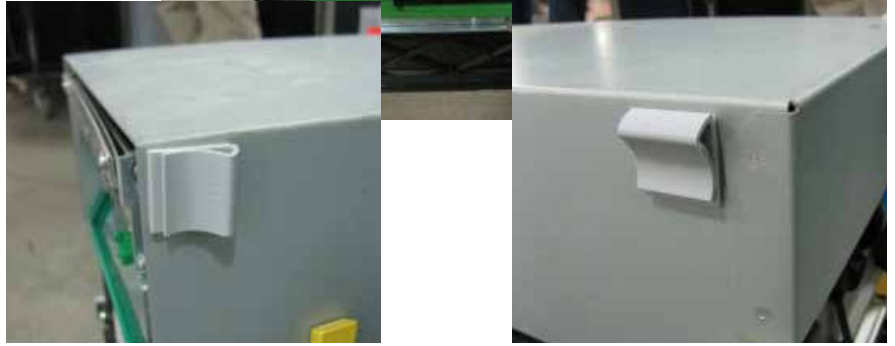


- 13.** Obtain the dispenser power cable. Plug the power cable into the unit's power supply in the upper portion of the cabinet. Route the cable through the left hole opening into the lower cabinet.



EJ TO SECURITY MODULE UPGRADE PROCEDURES

14. With the dispenser still removed from the unit, peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the back right side of the NMD50 dispenser. Peel the paper backing off another Panduit Adhesive Cable Clip and adhere it to the front right side of the NMD50 dispenser. Note the orientation of the clips in the pictures.



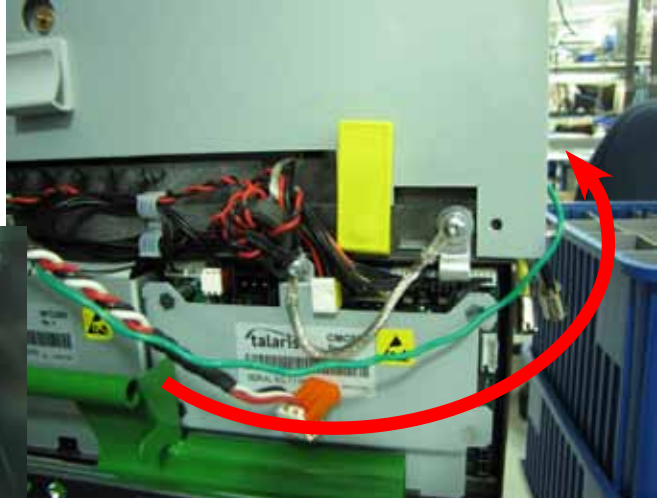
15. Peel the paper backing off one Panduit Adhesive Cable Clip and adhere it to the front left side of the NMD50 dispenser. Note the orientation of the clip in the picture.



16. Remove the cassettes from the NMD50 if installed. Pull both slides out fully and ensure they lock into place. Set the dispenser into position ensuring the posts on the rails sit securely in the handle's notches. Reinstall the cassettes.



17. Route the ground wire around to the front of the dispenser. Plug the ground wire onto the quick connect as shown.



18. Plug the Dispenser Power Cable into the side of the NMD50 as shown.



19. Tuck the ground wire under the clip on the side of the dispenser. Route the power cable through the two cable clips along the left side of the dispenser. Route the cable around to the rear of the dispenser and through the cable clip on the back left side of the NMD50.



- 20.** Route the Dispenser data cable from the security module assembly through the two cable clips on the right side of the NMD50 dispenser as shown.

(Dispenser removed from the unit for clarification)



- 21.** Route the Dispenser Communication Cable across the top of the dispenser, through the cable clip on the left side of the dispenser and plug it into the dispenser as shown.

(Dispenser removed from the unit for clarification)

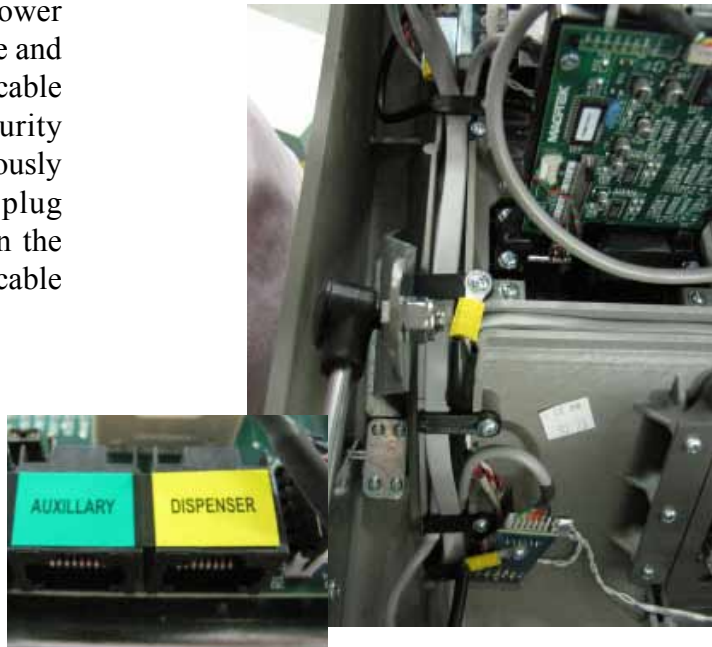
Unlock the slides and push the dispenser into the cabinet.



- 22.** In the upper cabinet, route all the cables through the cable clip previously installed. Route the cables under the bracket as shown.



23. In the upper cabinet, route the security module communication and security module power cable around the unit's main power cable and over the power supply. Plug the power cable into the power supply. Route the security module cable up through all four previously loosened wire plate cable clips and plug the cable into the docking/mainboard in the "dispenser" jack. Tighten the wire plate cable clips to secure the control panel cables.



24. Loop the security module power cable back on itself to condense the length of the cable. TY Wrap the cable and cut off the excess.



25. To complete the security module install, perform "Synchronizing the Security Module to the Mainboard" on page 1A-3.

SECTION 2

ELECTRONIC JOURNAL TO SECURITY MODULE UPGRADE FT5000 CABINET OR VAULT NMD

07103-00224 DECEMBER 12, 2013

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#1 & #2 Phillips screwdriver with a 6 inch shank Small open end wrenches, 1/4" & 11/32" Side cut pliers USB flash drive Small paperclip (straightened out)
KIT 06200-00174	FT5000 Cabinet/Vault with NMD100 Electronic Journal (EJ) to Security Module (SM) conversion kit

Part #	Description	Qty
1	FT/RL/Traverse Live - Advanced Security Module v2.1	1
2	TDM/SM Communication Cable, 63"	1
3	Security Module Power Cable	1
4	NMD Communication Cable	1
5	Security Module Angled Bracket	1
6	Cable Clip 3/4" Round, Screw-In Quick Release	5
7	#8-32 Hex Nut Ext Tooth Washer	4
8	1/4-20 Nylon Lock Hex Jam Nut	2
9	#8-32 3/8 Inch Pan Phil Head Screw Ext Tooth Washer	1
10	1/4-20 X 3/8 Hex Bolt	2
11	6 Inches Nylon Ty Wrap Post Adhesive Backed White	1
12	6 Inches TY Wraps ROHS	5

Ensure the most up-to-date software is installed on the unit BEFORE proceeding.

The security module mounting area may vary in your cabinet. The mounting location may be on the left or right roof.

FT5000 UPGRADE

BEFORE PROCEEDING:

- Ensure all of your Journal Records have been saved to a USB flash drive.
- Perform a proper management function shut down 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.
- Open the dispenser area.

Removal

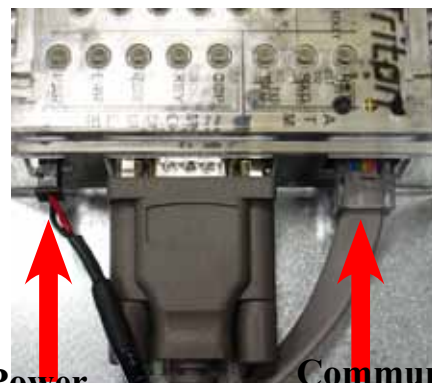
1. Disconnect the communication and power cables from your dispenser.
2. Refer to the applicable service manual for your unit to remove your dispenser. Removal of the dispenser will provide the working room necessary to accomplish the upgrade.
3. Disconnect the dispenser to EJ cable and remove the cable from the split loom. Discard cable.
4. Disconnect the EJ to docking board or mainboard cable as applicable and remove the cable from the split loom. Discard cable.
5. Remove the hardware attaching the EJ to the roof of the cabinet and remove the EJ. Discard.

Installation

6. Connect the new dispenser communication cable to the new security module. Tighten the thumbscrews to secure the cable.

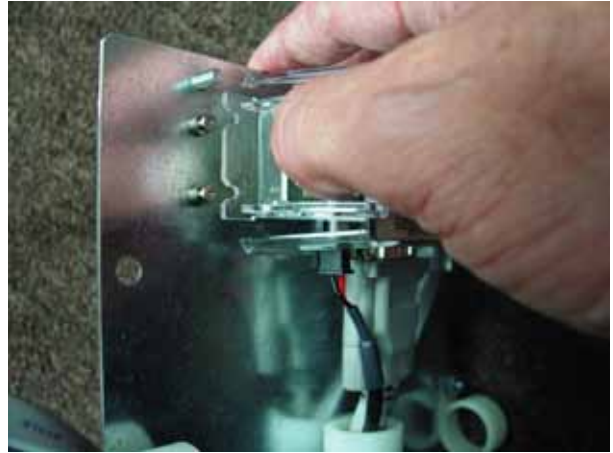


7. Connect the security module power cable and communications cable to the new security module as shown.

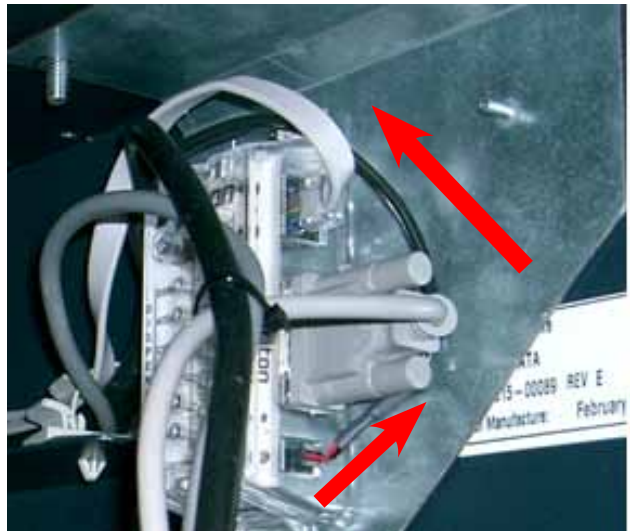


EJ TO SECURITY MODULE UPGRADE PROCEDURES

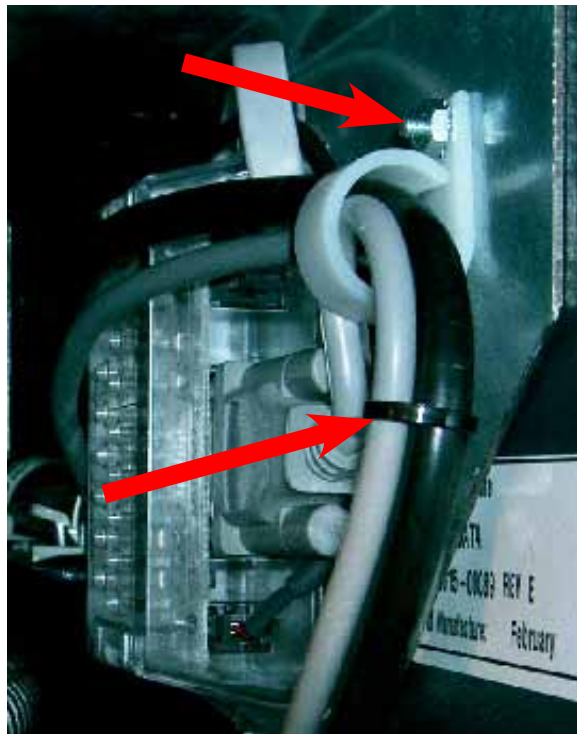
8. Obtain the Security Module Flat Bracket. Insert the two posts on the bracket into the two notches on the security module. Gently push the security module towards the two posts, flexing the plastic ends slightly on both sides, to insert the single post on the bracket into the single notch on the module. Ensure the security module is sitting flush against the flat bracket.



9. Route the security module power and communication cables up over the security module as shown.



10. Attach a quick release cable clip to the bracket with one nut as shown. Route the cables through the clip. TY Wrap the cables together as shown and cut off excess TY Wrap.

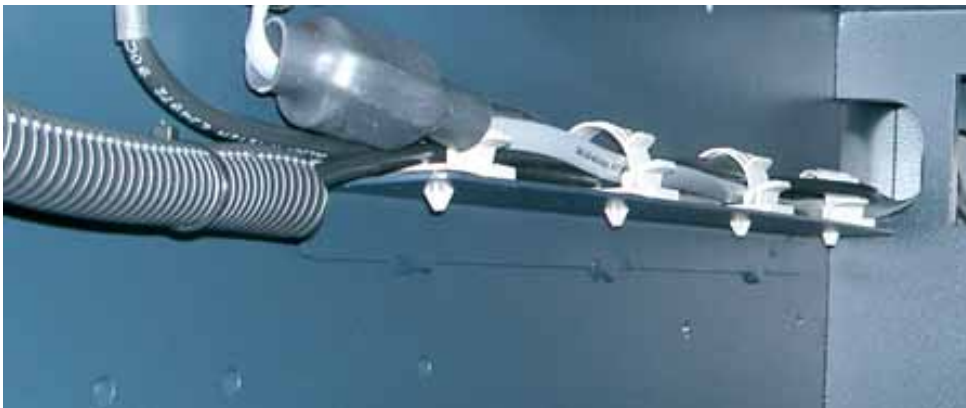


- 11.** Mount the bracket and security module assembly to the cabinet. Attach with the supplied hardware, bolts or nuts. Your attachment may be on the left or right side roof of the cabinet. (right side installation shown)



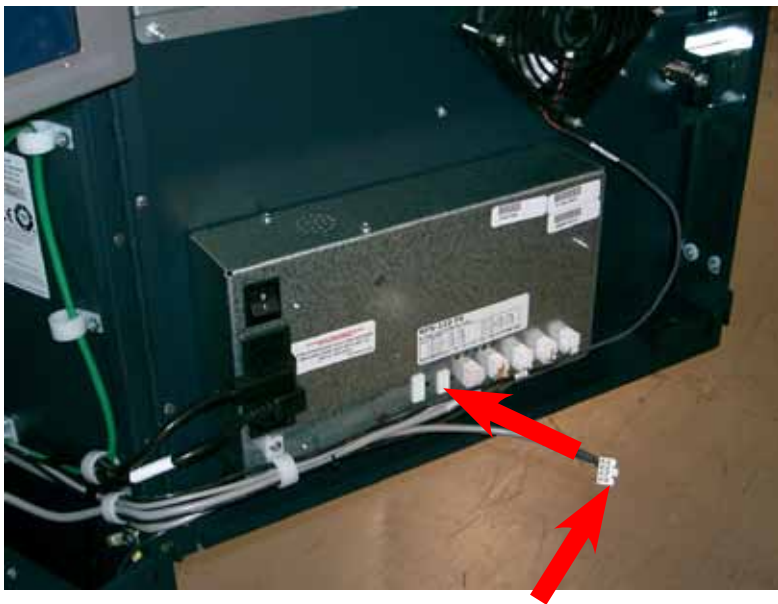
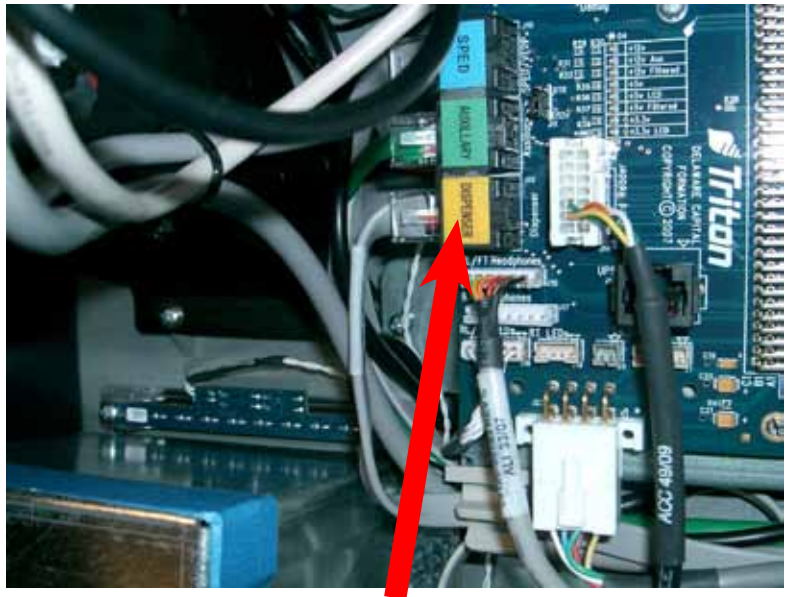
- 12.** Route the communications and power cables for your dispenser. Place the cables back into the split loom. Failure to ensure the cables are routed and secure will increase the possibility of damage. Use the TY Wraps as necessary.
- 13.** Route the communications and power cables from the Security Module to the upper cabinet. Place the cables back into the clips. Failure to ensure the cables are routed and secure will increase the possibility of damage.

Right side cable routing to upper cabinet.



Left side cable routing to upper cabinet.

Route the communications cable and connect to the docking board.



Route the power cable through the clips and connect to an open power supply connector.

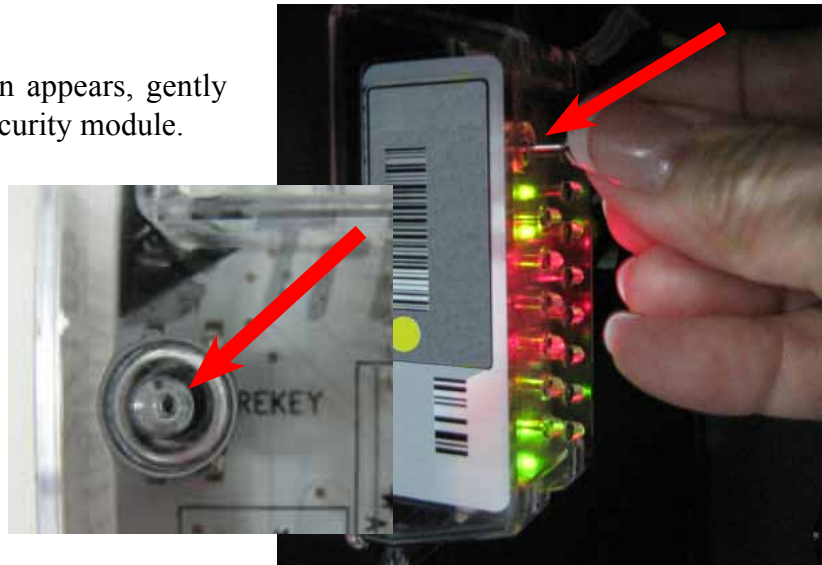
14. Reinstall the dispenser and connect the power and communication cables to the dispenser.

15. To complete the security module install, perform “Synchronizing the Security Module to the Mainboard” on page 2-7.

Synchronizing the Security Module to the Mainboard

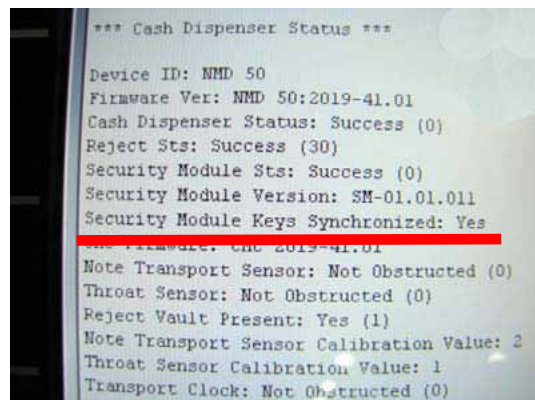
1. Open the upper cabinet and power up the unit by flipping the power switch on the unit's power supply to the ON position (I).
2. When the unit is powered up completely, press and hold the "blank" key on the keypad and then press the "1" key.
3. Enter your password to log into Management Functions and press ENTER.
4. If applicable, press "0" to navigate to the Main Menu page.
5. On the Main Menu page, press "2" Diagnostics.
6. On the Terminal Diagnostics page, press "4" Dispenser.
7. On the Cash Dispenser Diagnostics page, press "7" Initialize Dispenser.

8. When the confirmation screen appears, gently insert the paperclip into the security module.



9. Press ENTER on the keypad.
10. When the "Dispenser initialize is complete" screen appears, press Enter to return to the Cash Dispenser Diagnostics page.

11. Press "1" Cash Dispenser Status. Review the status report to ensure the "Security Module Keys Synchronized" states "Yes". If "No", repeat Steps 7 - 11.



12. Press ENTER on the keypad 3 times to exit out of Management Functions. Return the ATM to customer mode.

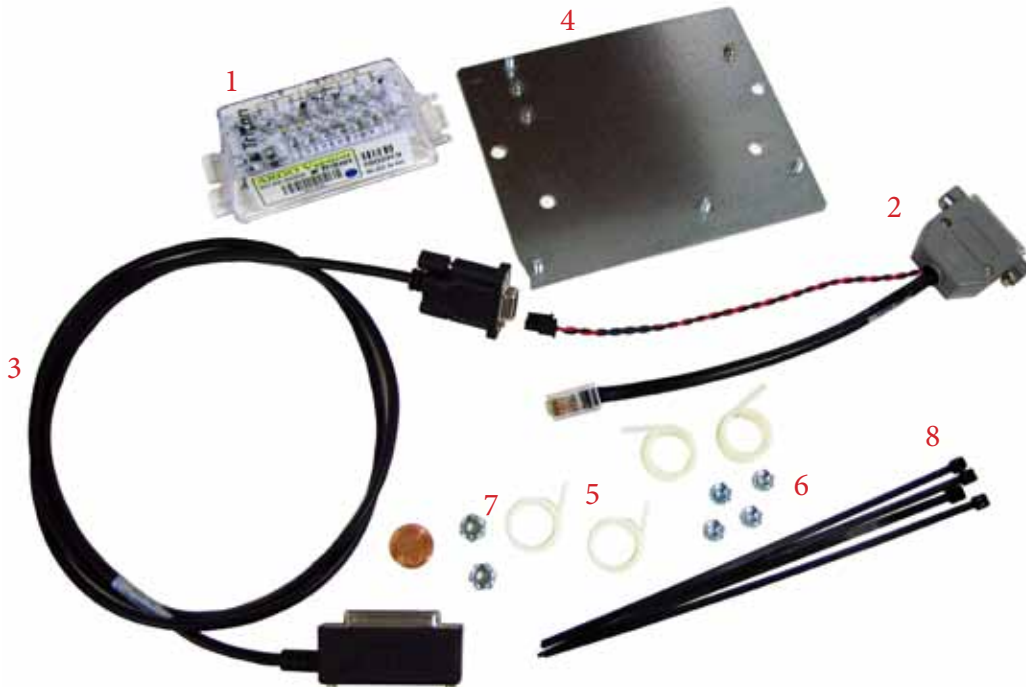
SECTION 3

EJ to Security Module
Upgrade
9100 Cabinet with MINIMECH
KIT 06200-00191

Required Parts and Tools

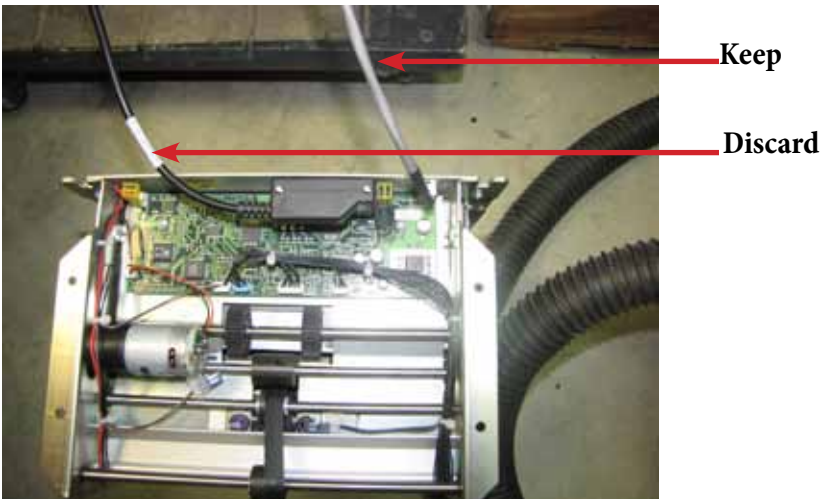
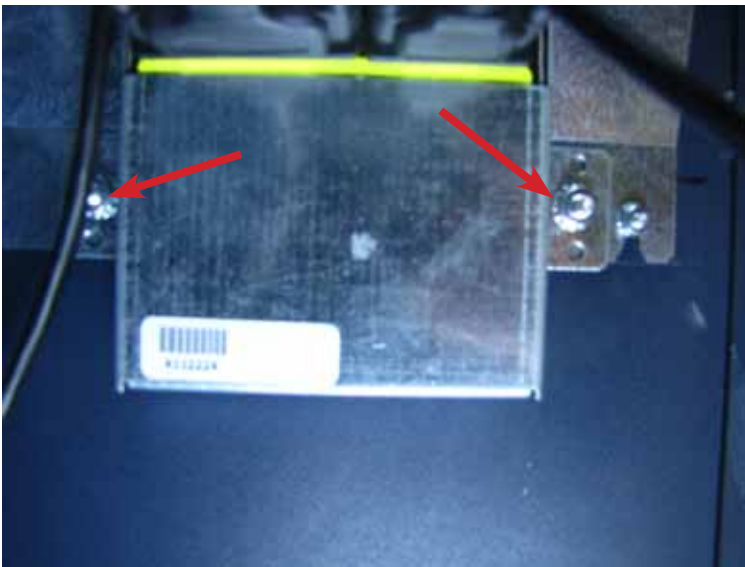
TOOLS REQUIRED	11/32" & 7/16" Hollow shaft nut drivers, side cut pliers, PC with load cable for updating software in 9100 main board, small paperclip (straightened out).
KIT 06200-00191	EJ to Security Module Conversion Kit for 9100 cabinet with Mini Mech.

	Description	Qty
1	FT/RL/Traverse Live- Advance Security Module v2.1	1
2	EJ to SM comms/power adapter cable for Z180	1
3	Security Module to Mech Comms Cable, Right Angle ROHS	1
4	Bracket, Security Module with 9600 holes	1
5	Cable Clip 3/4" Round, Screw-in/Quick Release/ROHS	4
6	Nut/ #8-32 Hex Nut/ Ext. Tooth Washer ROHS	4
7	Nut/ 1/4-20/ Nylon Lock/Hex Jam ROHS	2
8	8" Ty Wrap ROHS (Black)	4



Before proceeding

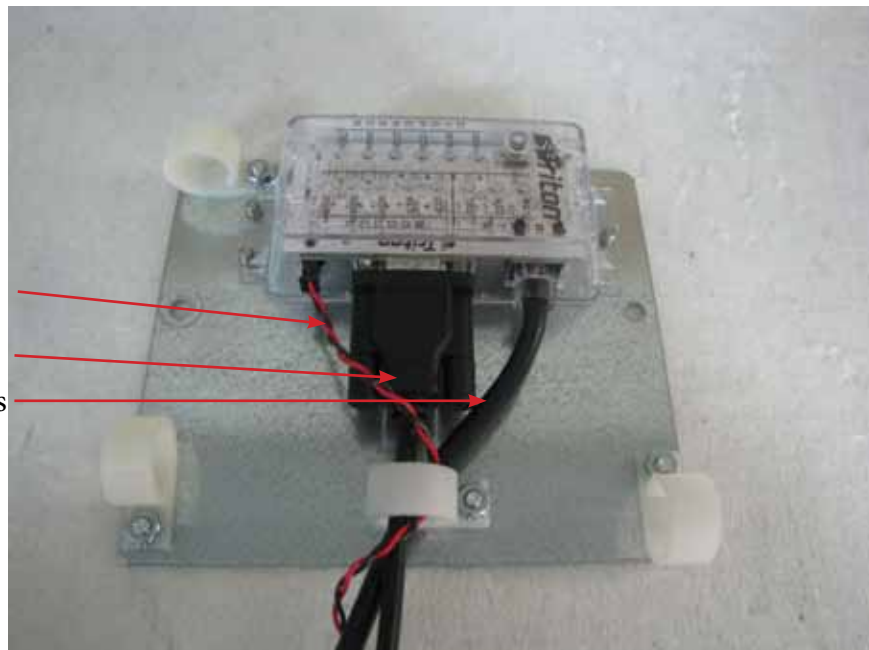
- » Ensure all of your Journal Records have been saved.
 - » Perform proper management function shut down to remove power from ATM.
 - » Unlock and open the ATM control panel. Turn the power switch to the off (O) position. Unplug the ATM power cord from the wall outlet.
 - » Open the dispenser area.
-
1. Remove the nuts holding the Electronic Journal (EJ) in place. Set the nuts aside for step 10. Pull the EJ straight off.
 2. Disconnect the two cables from the EJ.
 3. Remove the mini mech by removing the two screws in front. Set the screws aside for step 13. Pull the unit straight out.
 4. Remove the two cables from the back of the mini mech. The left cord is removed by loosening the two screws. Discard the comms cable.



Steps 5-9 will cover assembly of the 06200-00191 kit as shown.

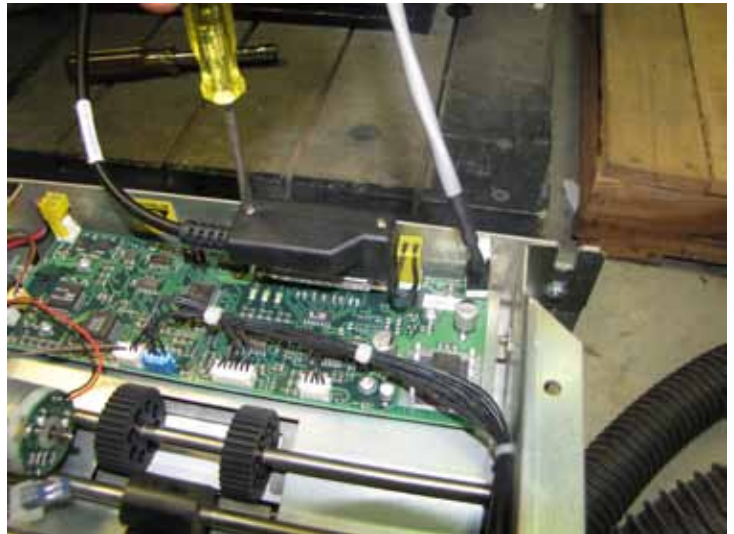
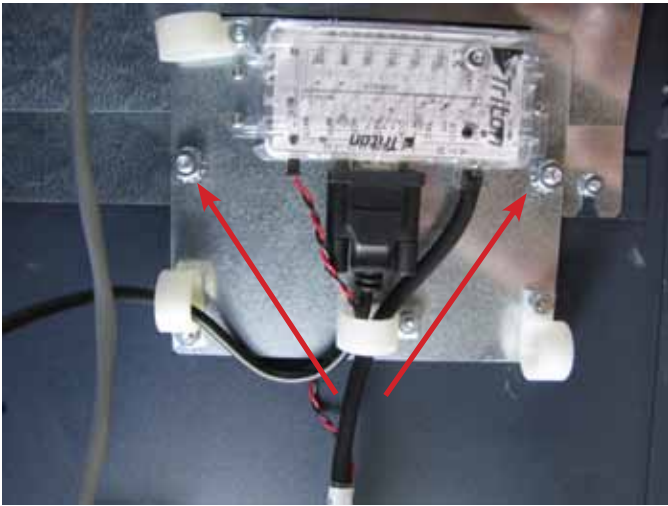
5. Obtain the 06200-00191 kit and lay the parts out in an open area.
6. Attach the white cable clamps to the mounting bracket.
7. Install the security module to the mounting plate. NOTE: Install the single notched end first.
8. Install the power cable, dispenser communications cable, and Security Module communications cable into the security module.
9. Route the wires through the bottom, cable clip, as shown.

Power
Dispenser
Communications

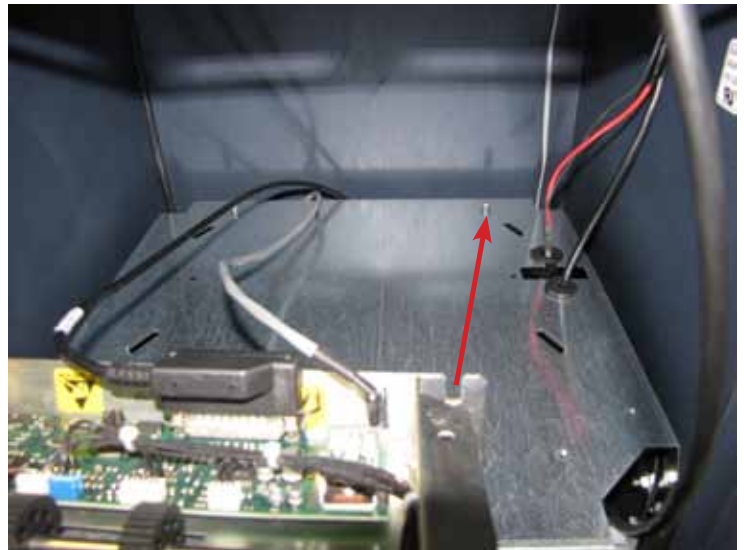


9100 WITH MINI MECH

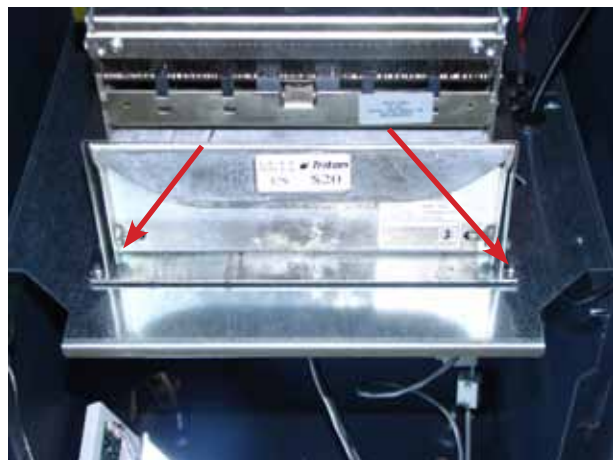
10. Mount the bracket and security module assembly to the cabinet (where the EJ was removed). Secure the bracket using the two nuts saved from step 1.
11. Route the comms cable from the security module up the back of the cabinet behind the shelf. Connect the cables to the back of the mini mech.



12. Reinstall the mini mech by aligning the notches in the back with the standoffs on the back of the dispenser tray. Make sure the cables are routed behind the dispenser tray.

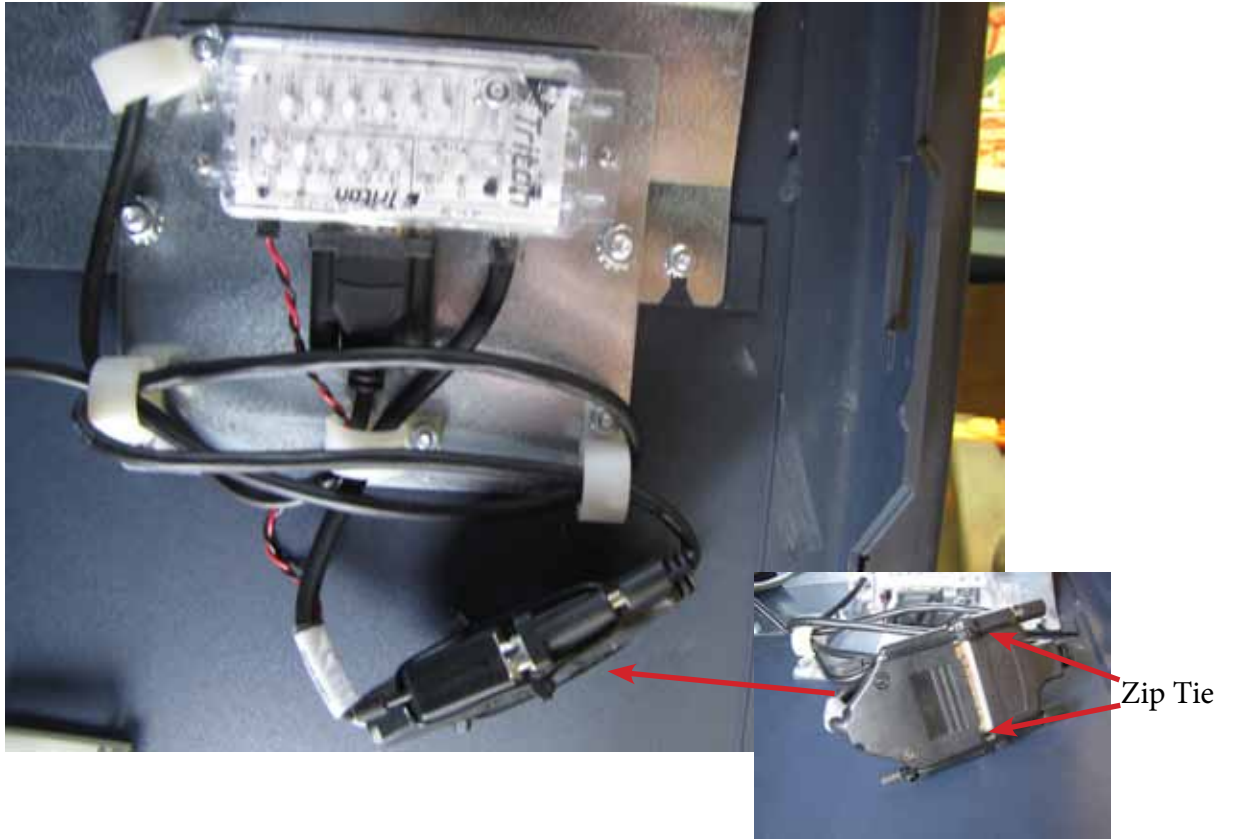


13. Secure the mini mech to the dispenser tray with the screws saved from step 3

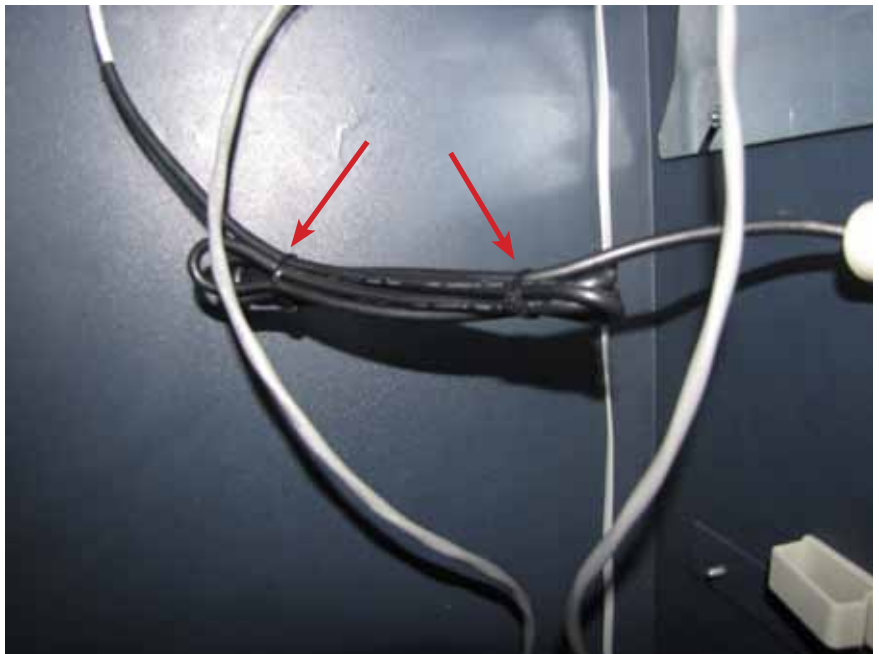


EJ TO SECURITY MODULE UPGRADE PROCEDURES

14. Connect the EJ Communications cable to the Security Module Communications Cable. Secure the connection with 2 ty-wraps.



15. Use ty-wraps to secure the wires for a neat appearance. Close the cabinet door.



TriComm Plug-In Installation Method

NOTE: Power up the unit and perform the following steps to configure the Security Module. At this point, it is assumed that the required terminal software load file (Full load file or Update load file) has already been installed in the terminal. For example: KC990088.17 (full load file) or KAT-9988.17 (update file).

1. Power up the terminal and enter **Management Functions**.
2. Select **Configure Terminal**.



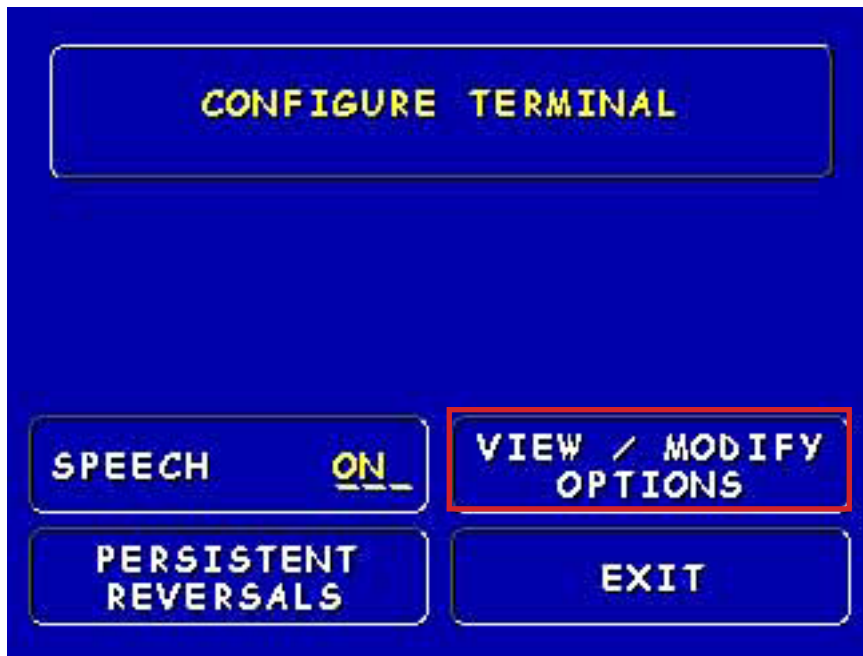
3. Select **More**.



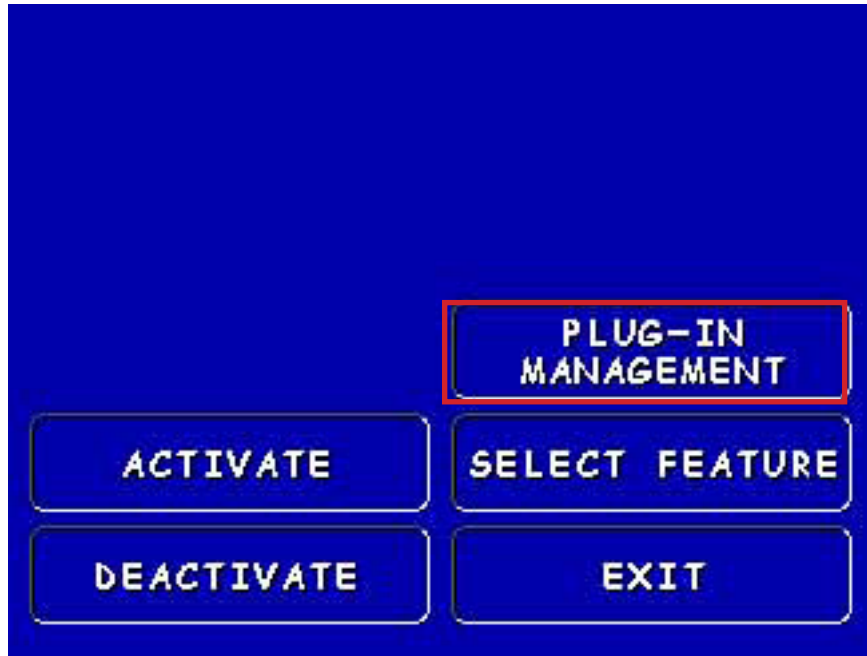
4. Select **More** again.



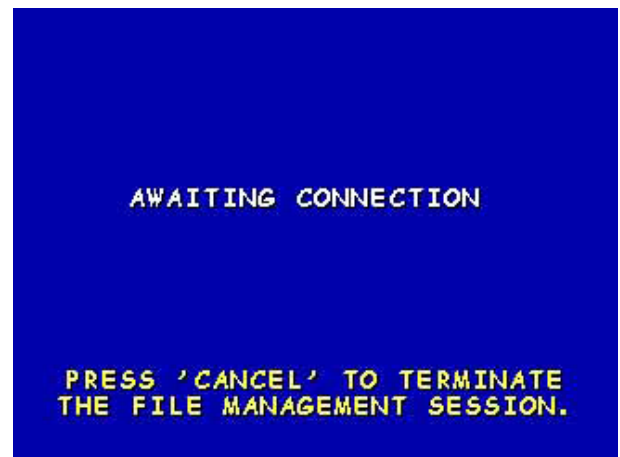
5. Select **View/Modify Options**.



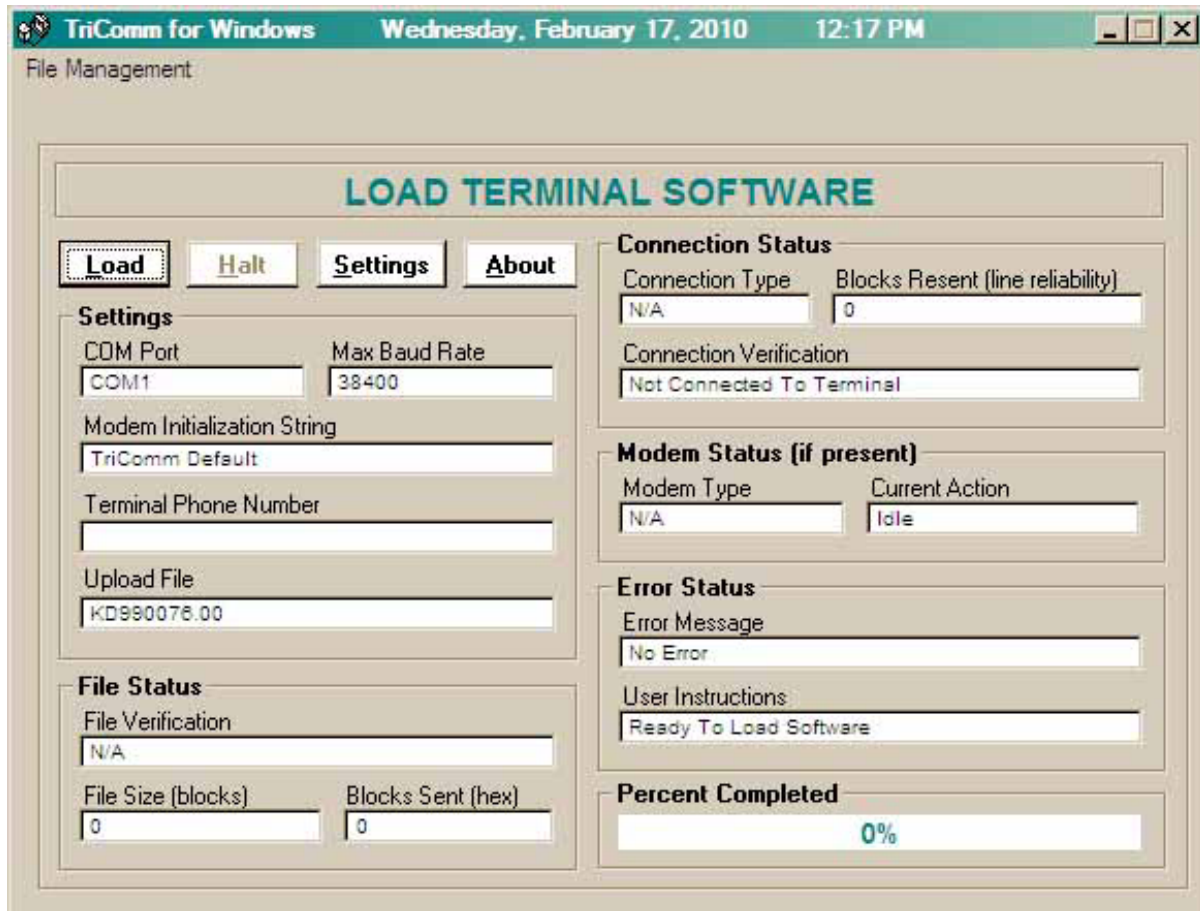
6. Select **Plug - In Management**.



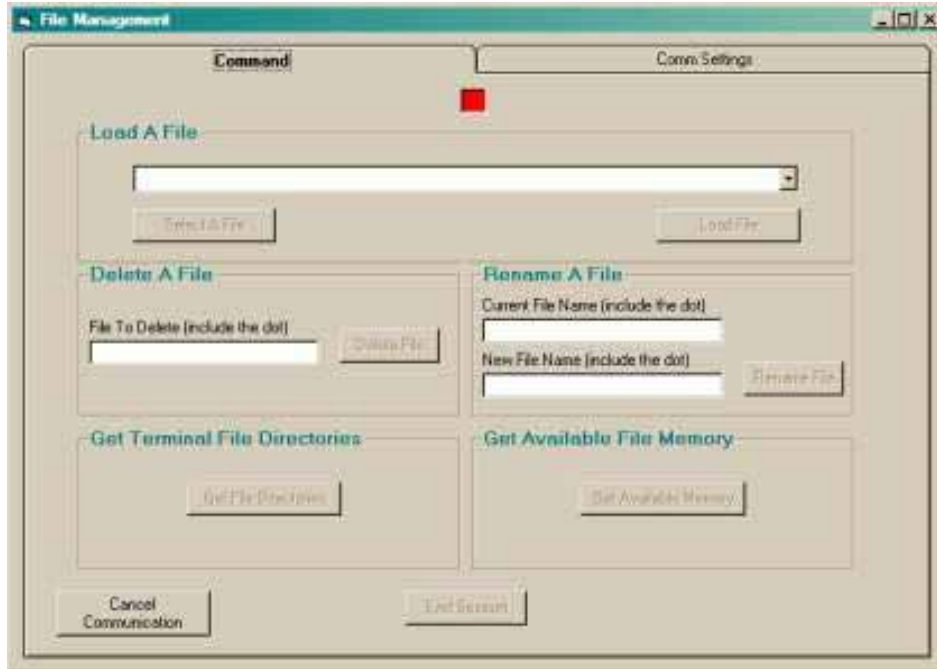
7. Select **Direct** to enable direct-connect mode for connection to TruComm. At this point the terminal is awaiting a connection request from TriComm and the **Awaiting Connection** screen should appear.



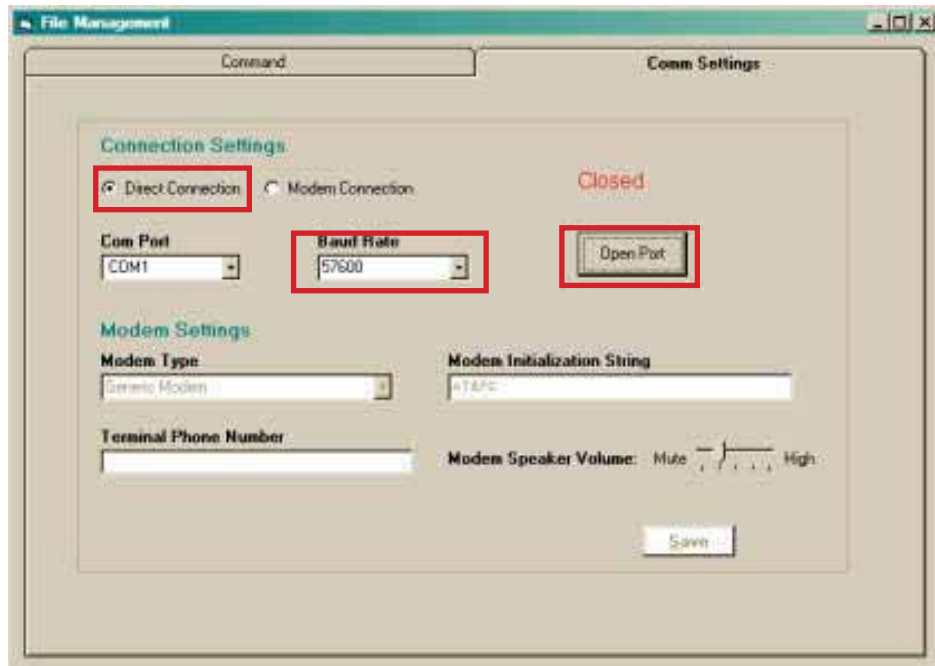
8. Connect the load cable that you typically use to load the terminal software using TriComm. This will vary depending on the model of your terminal.
9. Execute the TriComm application (ver. 2.1.22 or later).



10. Click **File Management** in the top left screen. This will bring up the following screen.

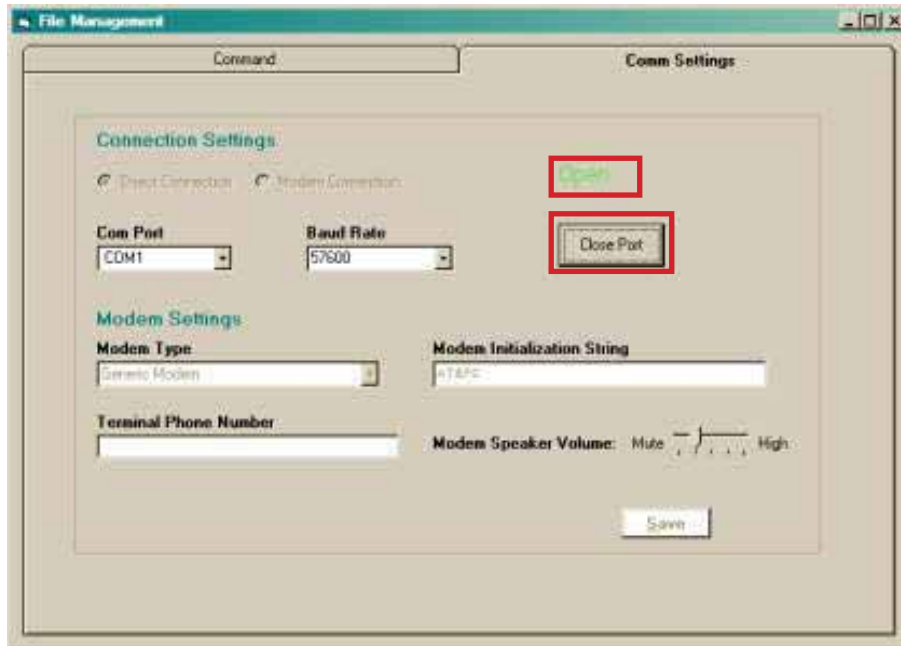


11. Click **Comm Settings**. Then verify that **Direct Connection** is selected and the **Com Port** option is set to whichever Com port you are using. Leave the **Baud Rate** selection at 57600. Then click **Open Port**.

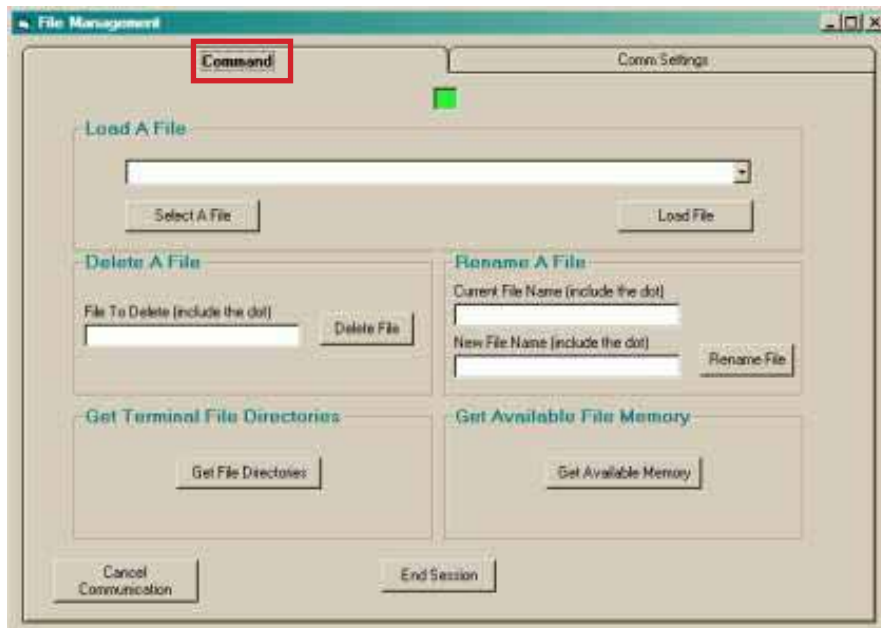


EJ TO SECURITY MODULE UPGRADE PROCEDURES

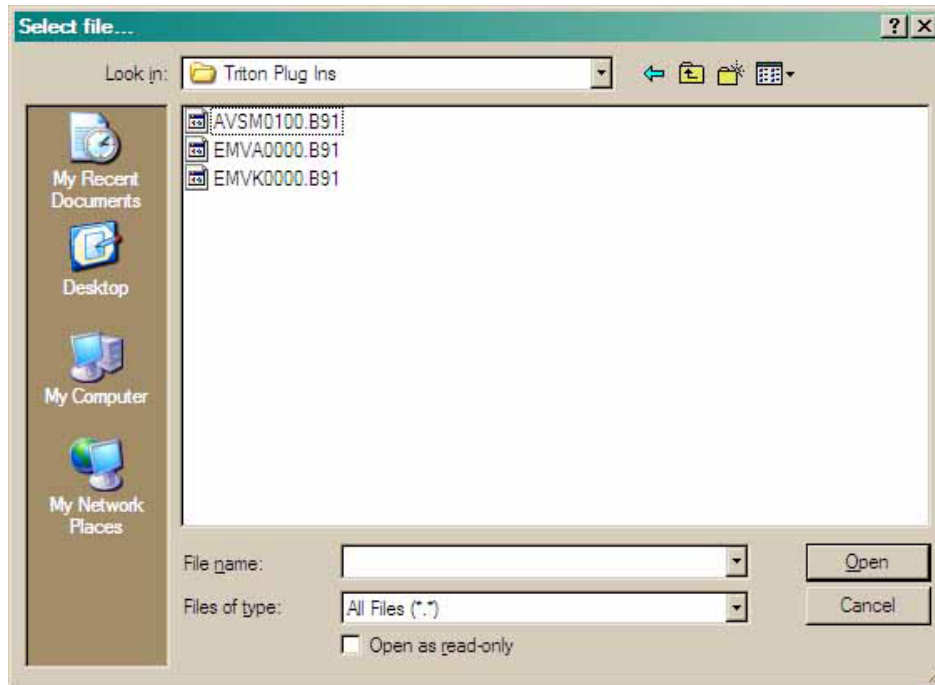
12. The following screen should appear. Verify that the word **Open** now appears above the button you've just clicked and that the button has changed its function to **Close Port**.



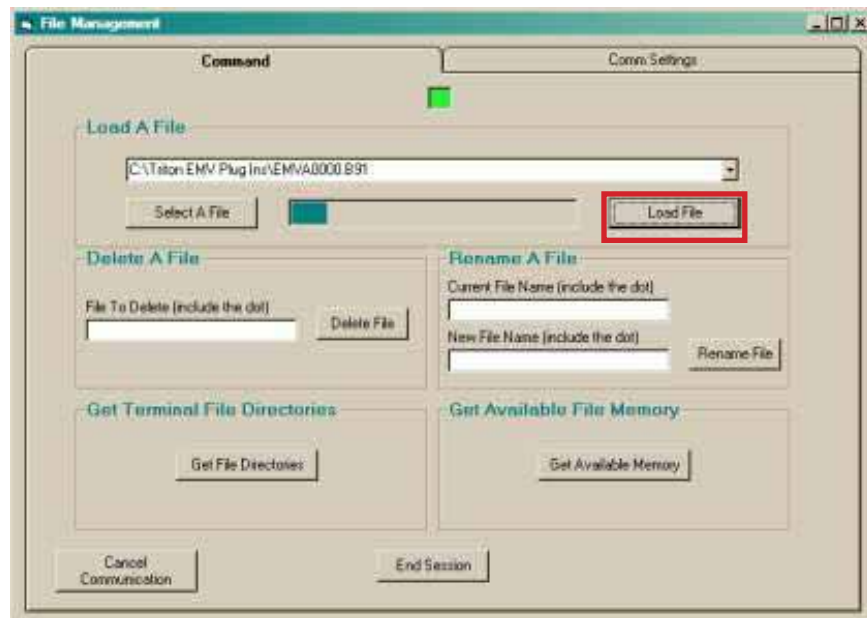
13. Click the **Command** tab to bring up the following screen. Notice the green box indicating that the port is opened.



14. Click on **Select File**, then browse to the folder containing the plug-in files you wish to download. Select one of the files and click **Open**.

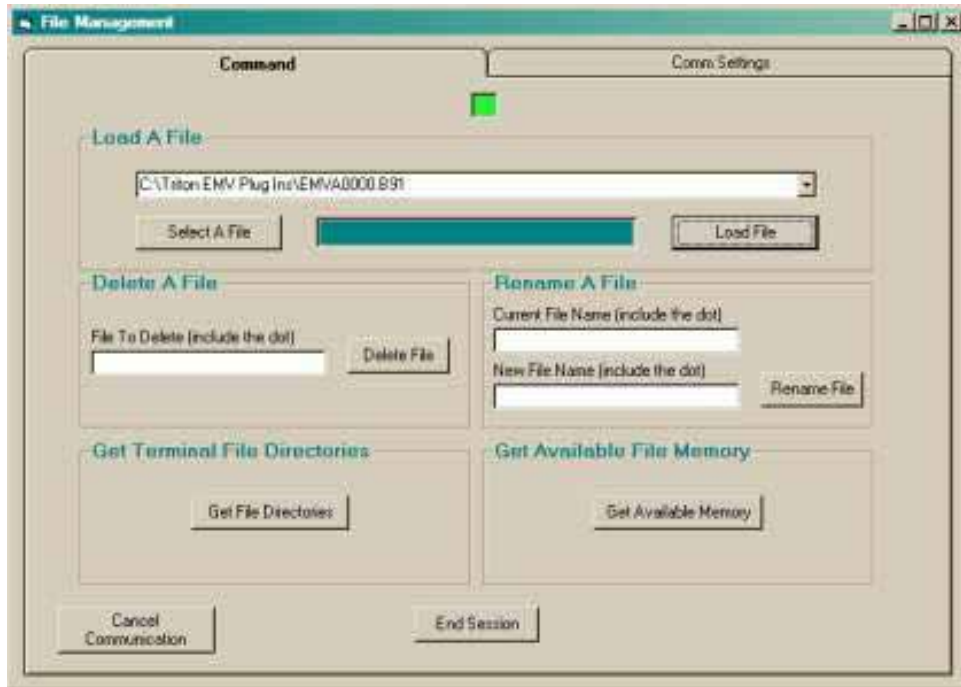


15. The name of the file to download should now appear in the **Load a File** box. Click **Load File** to begin the download. A progress bar will indicate that the file is being sent.

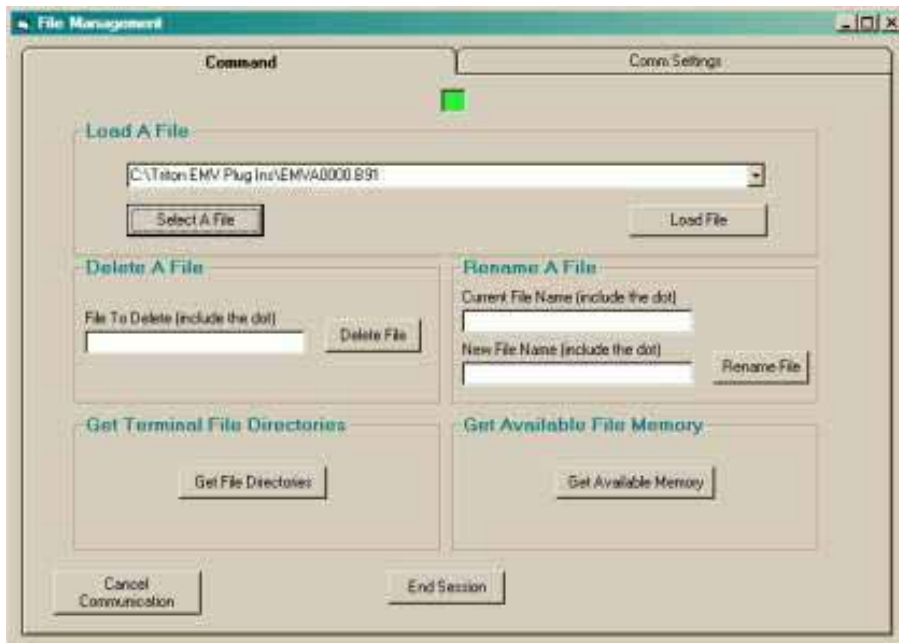


EJ TO SECURITY MODULE UPGRADE PROCEDURES

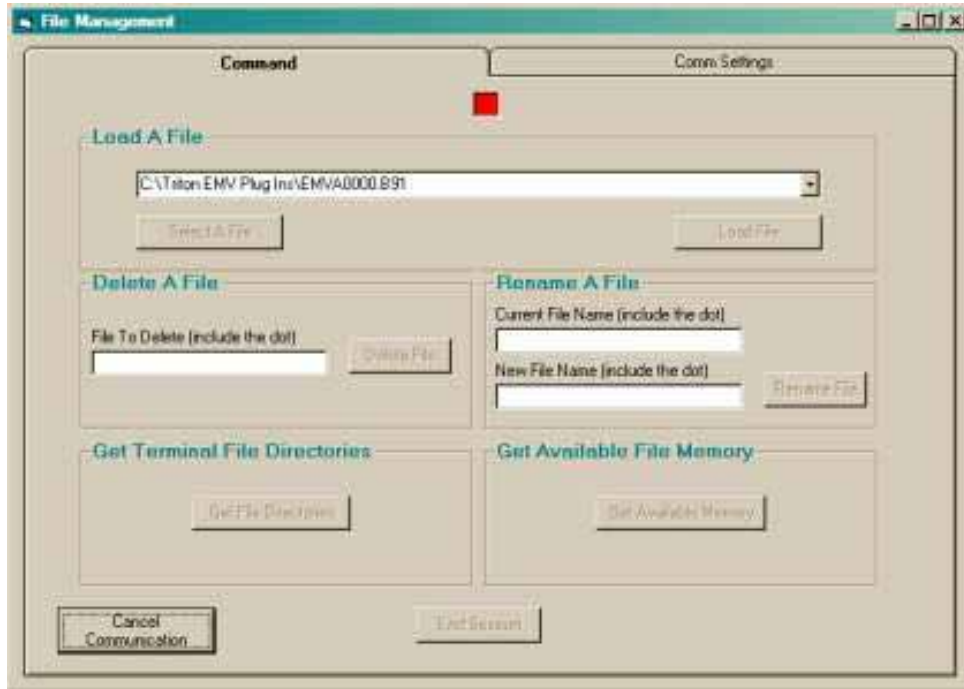
16. When download is complete, the progress bar will completely fill the progress box, momentarily.
NOTE: The ATM terminal screen will display **File Download Successful**.



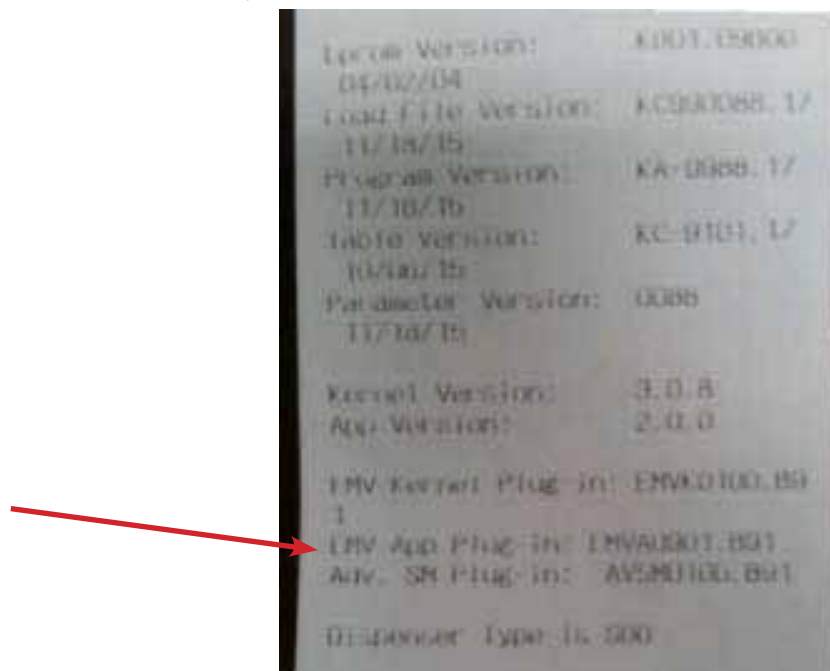
17. The following screen will return.



18. Repeat Steps 14 - 17 for the other Plug-In files. When all required plug-in files are downloaded, you can click **End Session** to disconnect from the terminal or you may optionally use the Get File Directories to verify that the files are now stored properly on the terminal. You can also use the Get Available Memory option to view how much remaining storage space you have on the terminal's memory card. Once End Session has been clicked, you should see the following screen and the terminal will return to normal management functions.



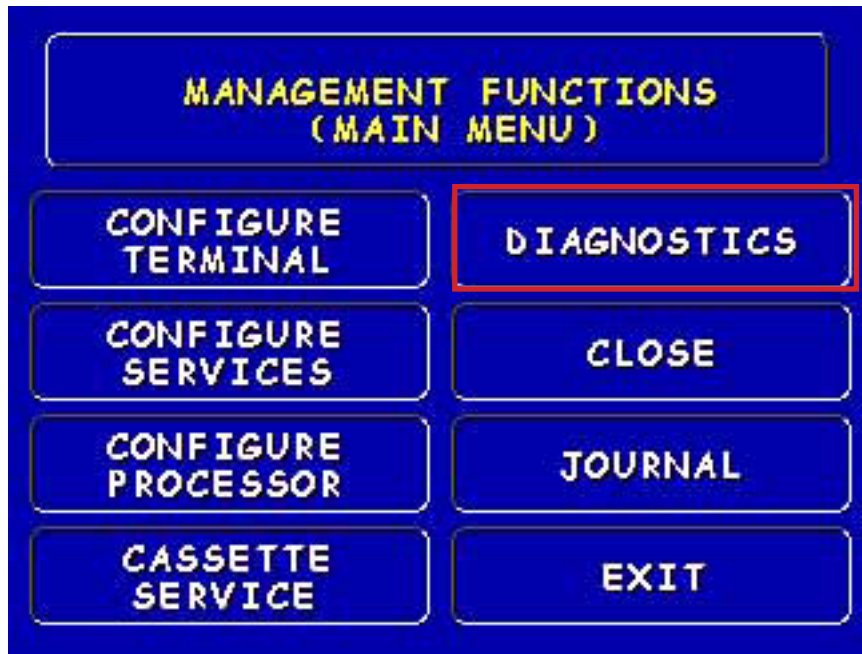
19. **(Optional)**. At the ATM, print the Terminal Configuration Report (via the Receipt Printer Test under Diagnostics) and verify the ASM plug-in (and any others) are listed. (Note: EMV Plug-ins won't appear unless enabled by the presence of the Sankyo 330 card reader.)



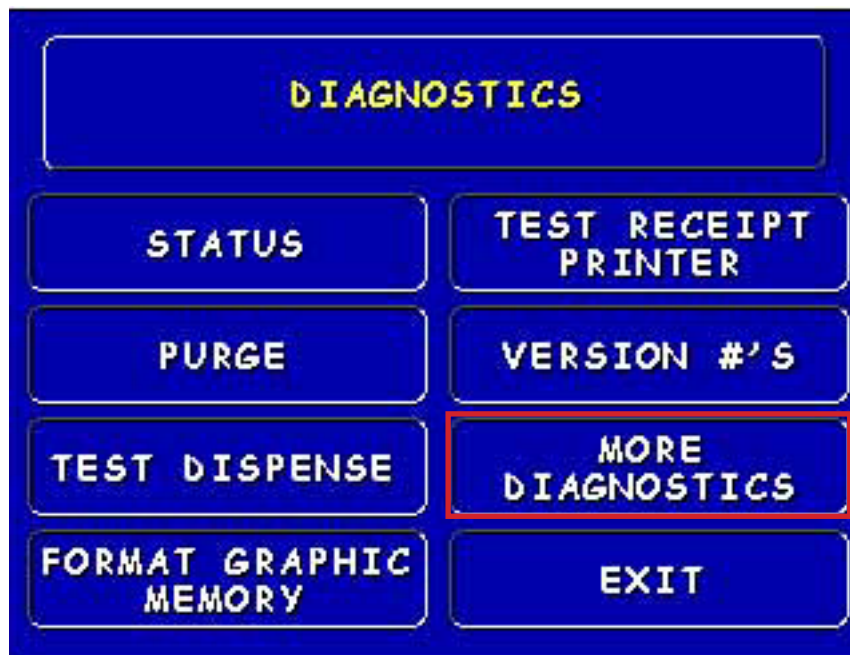
ASM and Dispenser Initialization.

To communicate to the dispenser, the terminal must establish a secure link through the ASM. There are several steps involved.

1. Power up the terminal and enter **Management Functions**.
2. Press **Diagnostics**.



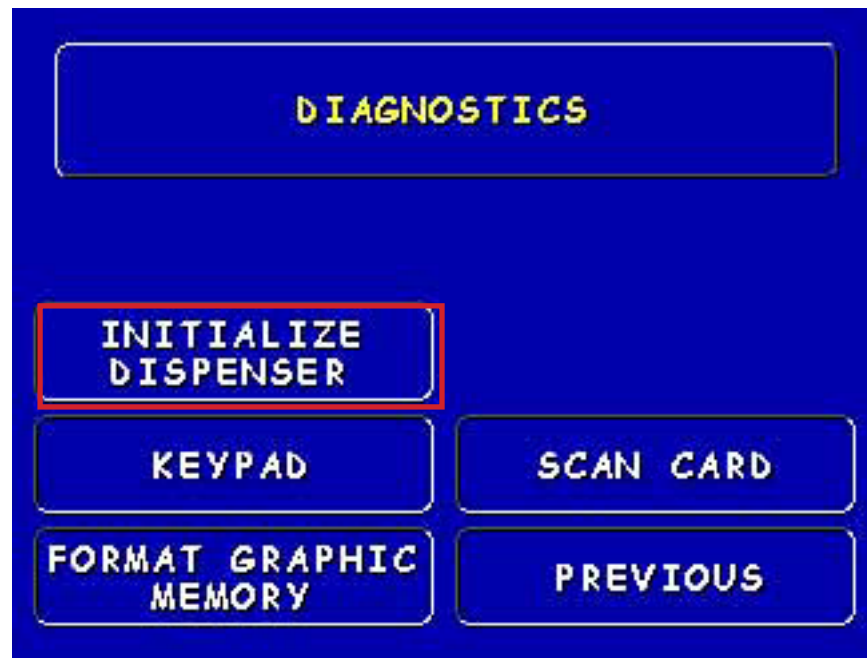
3. Press **More Diagnostics**.



4. Press **More Diagnostics**.

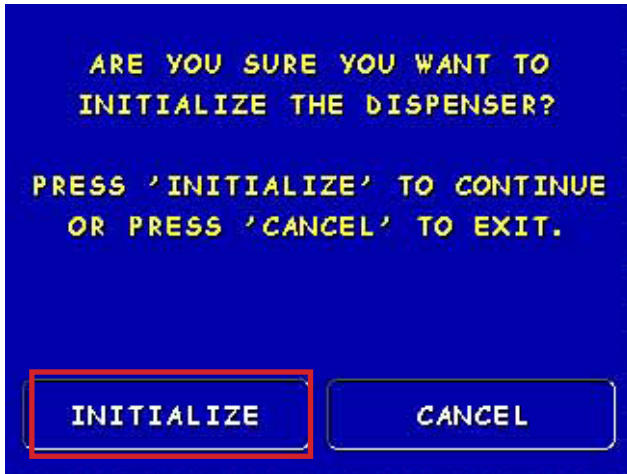


5. Press **Initialize Dispenser**.

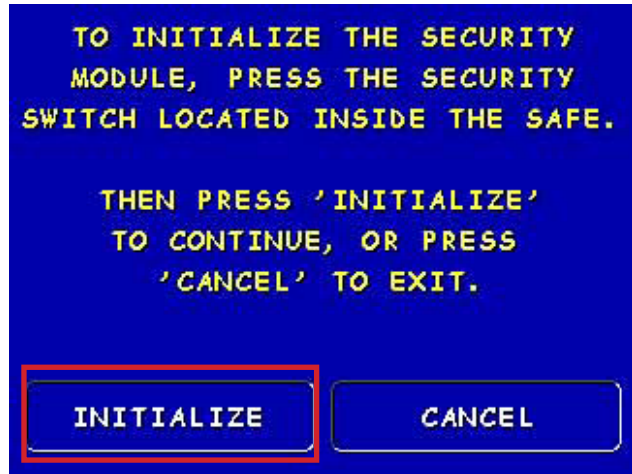


EJ TO SECURITY MODULE UPGRADE PROCEDURES

6. One of the following screens will appear.:



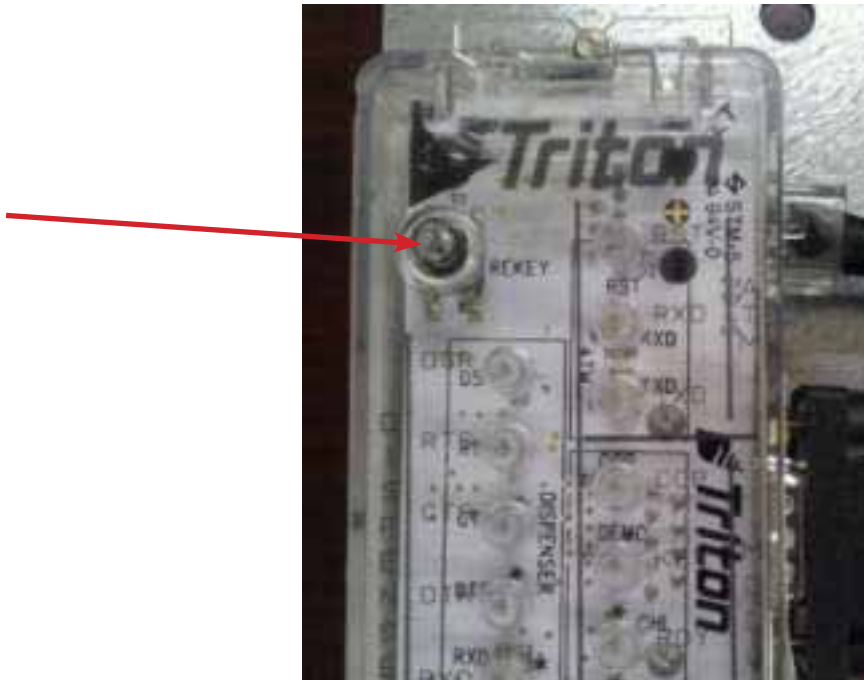
If the ASM has already been linked to the Terminal.



If the ASM has not yet been linked to the Terminal.

NOTE: If the ASM has already been linked, press **INITIALIZE**.

If prompted to press the Security Safety Switch located inside the safe, open the safe door and, using a paperclip or other narrow round tool, press in and release the button labeled **REKEY** on the ASM. Then press **INITIALIZE**.



7. At this point, the terminal will communicate with the ASM to establish a secured link and will then communicate with the dispenser to identify and initialize it. At the conclusion of this, one of the following screens will appear:



Initialization of ASM and dispenser passed.



Initialization of ASM and dispenser failed.

NOTE: If initialization fails, it could be either the ASM link or some problem with the dispenser. Repeat Steps 5-7. If you are not prompted to press the Security Switch in Step 6, then the ASM is very likely working and the problem then rests with the dispenser (or the cabling to the dispenser).

Once a successful initialization has been done, there should be no need to redo the initialization, unless either, the Terminal Software is reloaded, the ASM is replaced, or the dispenser type is changed.

8. (Optional). Print the Terminal Configuration Report (via the Receipt Printer Test under Diagnostics) and verify the ASM plug-in is listed and the correct dispenser is listed under Dispenser Type.

9. Run a customer transaction to test the unit.

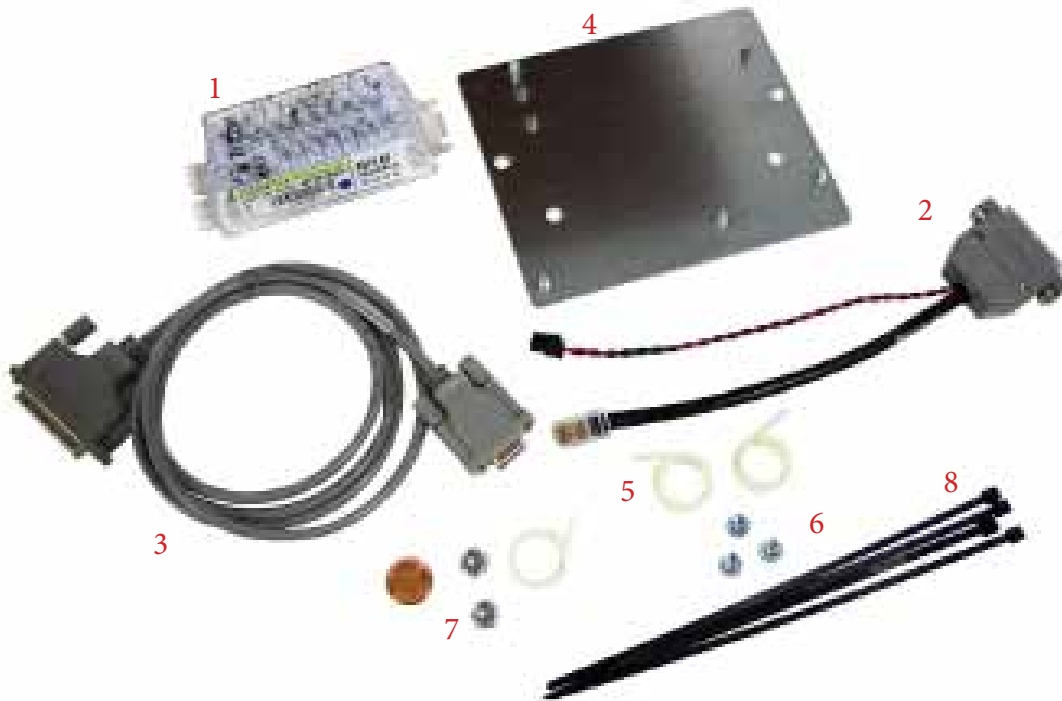
SECTION 4

EJ to Security Module
Upgrade
9100 Cabinet with SDD
KIT 06200-00190

Required Parts and Tools

TOOLS REQUIRED	11/32" & 7/16" Hollow shaft nut drivers, side cut pliers, PC with load cable for updating software in 9100 main board, small paperclip (straightened out).
KIT 06200-00190	EJ to Security Module Conversion Kit for 9100 cabinet with SDD.

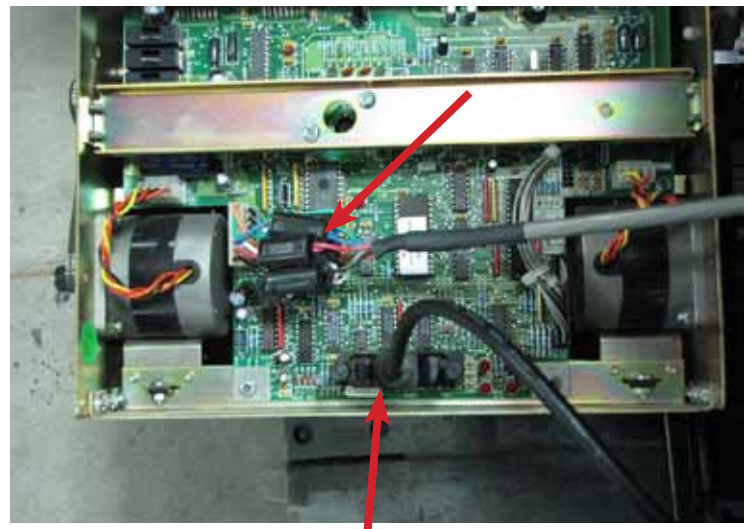
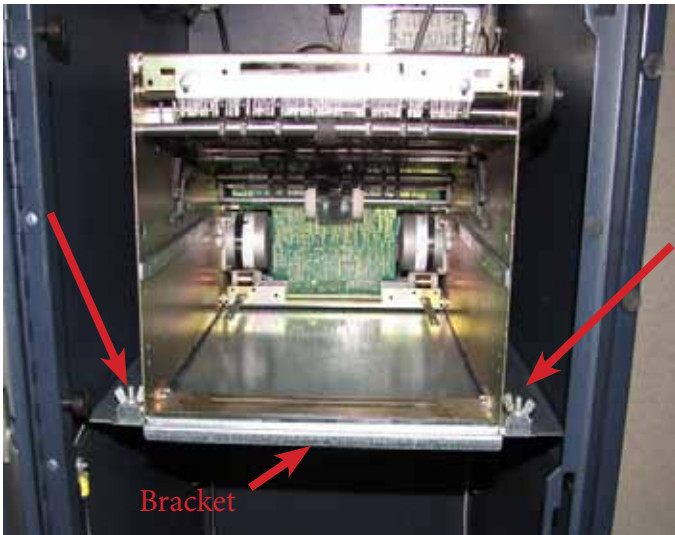
	Description	Qty
1	FT/RL/Traverse Live- Advance Security Module v2.1	1
2	EJ to SM comms/power adapter cable for Z180	1
3	SDD Data Cable ROHS	1
4	Bracket, Security Module with 9600 holes	1
5	Cable Clip 3/4" Round, Screw-in/Quick Release/ROHS	3
6	Nut/ #8-32 Hex Nut/ Ext. Tooth Washer ROHS	3
7	Nut/ 1/4-20/ Nylon Lock/Hex Jam ROHS	2
8	8" Ty Wrap ROHS (Black)	4



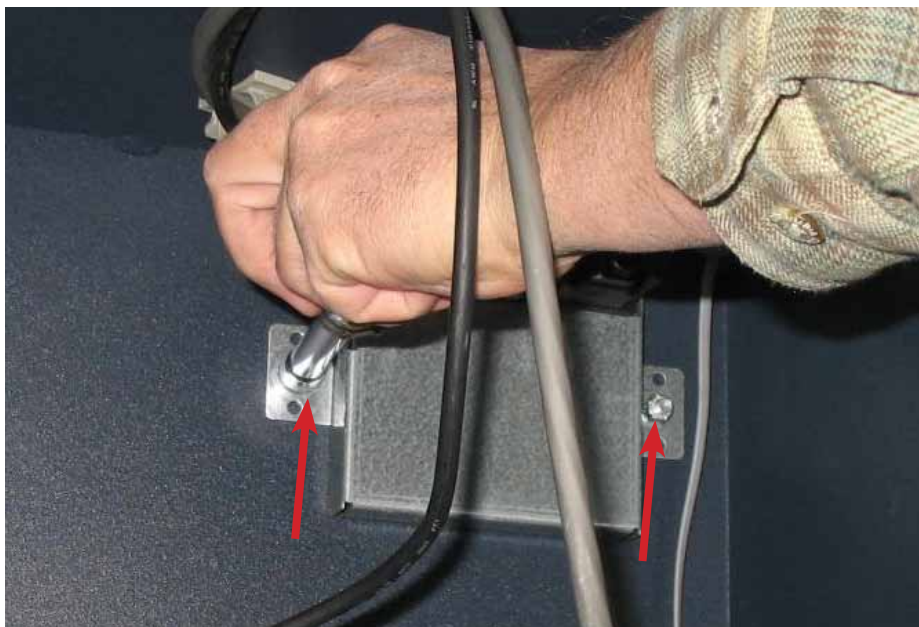
Before proceeding

- » Ensure all of your Journal Records have been saved.
- » Perform proper management function shut down to remove power from ATM.
- » Unlock and open the ATM control panel. Turn the power switch to the off (O) position. Unplug the ATM power cord from the wall outlet.
- » Open the dispenser area.

1. Remove the cassette from the SDD.
2. Remove the wing nuts from the front of the SDD. Set the nuts aside for step 15.
3. Lift the front of the SDD over the bracket and carefully pull it straight out.
4. Remove the cables from the back of the SDD. Set the SDD aside.

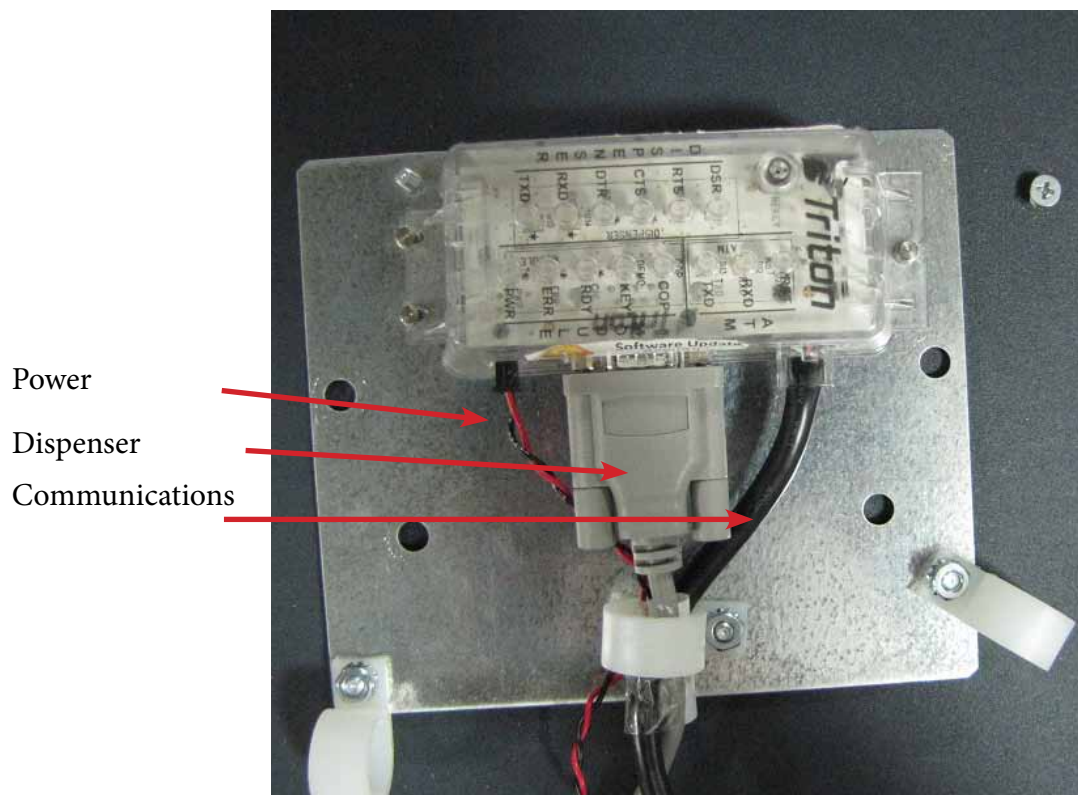


5. Remove the Electronic Journal by removing the 2 nuts holding it in place. Set the nuts aside for step 12. Pull the EJ straight off.
6. Remove the cables from the EJ. Discard the cable that was going to the SDD.

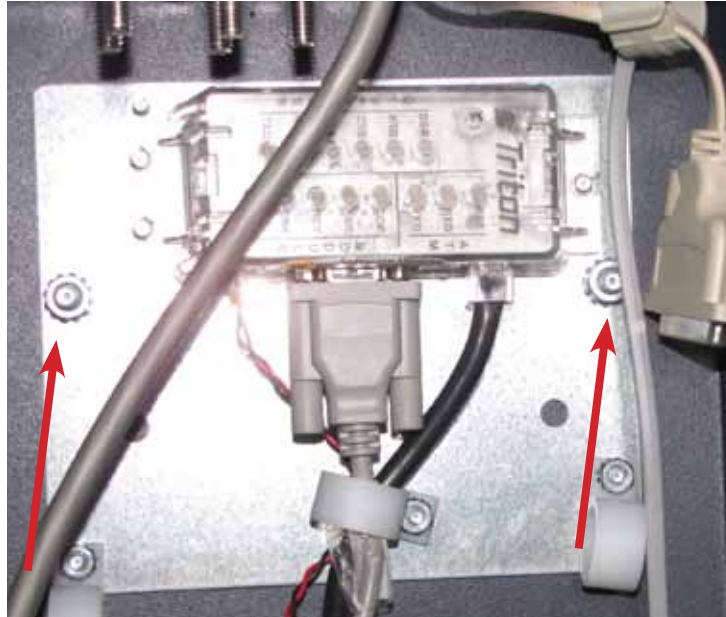


Steps 7-11 will cover assembly of the 06200-00190 kit as shown.

7. Obtain the 06200-00190 kit and lay the parts out in an open area.
8. Attach the white cable clamps to the mounting bracket.
9. Install the security module to the mounting plate. NOTE: Install the single notched end first.
10. Install the power cable, dispenser communications cable, and Security Module communications cable into the Security Module.
11. Route the cables through the bottom cable clip as shown.



12. Install the Security Module bracket in the same location that the EJ was removed from. Secure the Bracket with the 2 nuts that were removed in step 5.



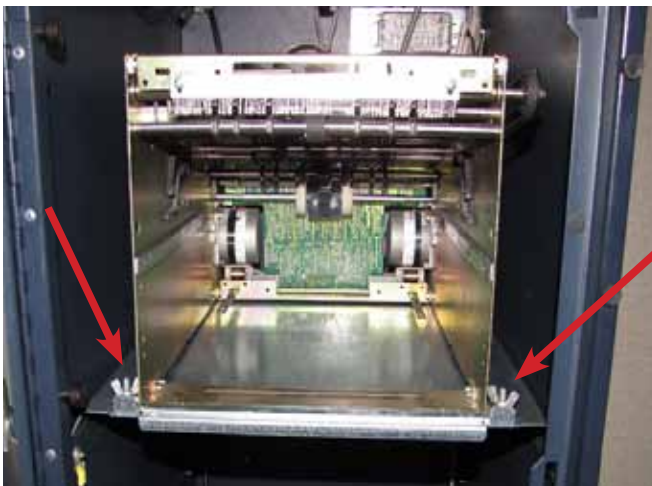
13. Connect the EJ to SM Comms/Power Adapter Cable to the EJ to Mainboard Comms Cable. Secure the connection with 2 ty-wraps in an X as shown.



14. Connect the power cable and the SDD Data cable to the SDD.



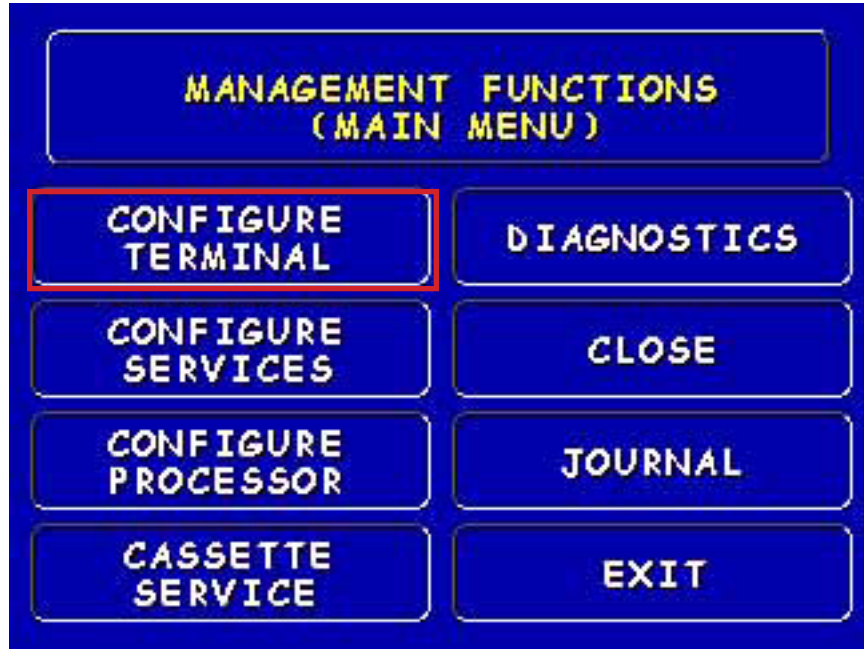
15. Set the SDD on the Dispenser tray and carefully push it back until it drops into place behind the front bracket. Reinstall the 2 wing nuts that were removed in step 2. Reinsert the cassette into the SDD. Close the cabinet door.



TriComm Plug-In Installation Method

NOTE: Power up the unit and perform the following steps to configure the Security Module. At this point, it is assumed that the required terminal software load file (Full load file or Update load file) has already been installed in the terminal. For example: KC990088.17 (full load file) or KAT-9988.17 (update file).

1. Power up the terminal and enter **Management Functions**.
2. Select **Configure Terminal**.



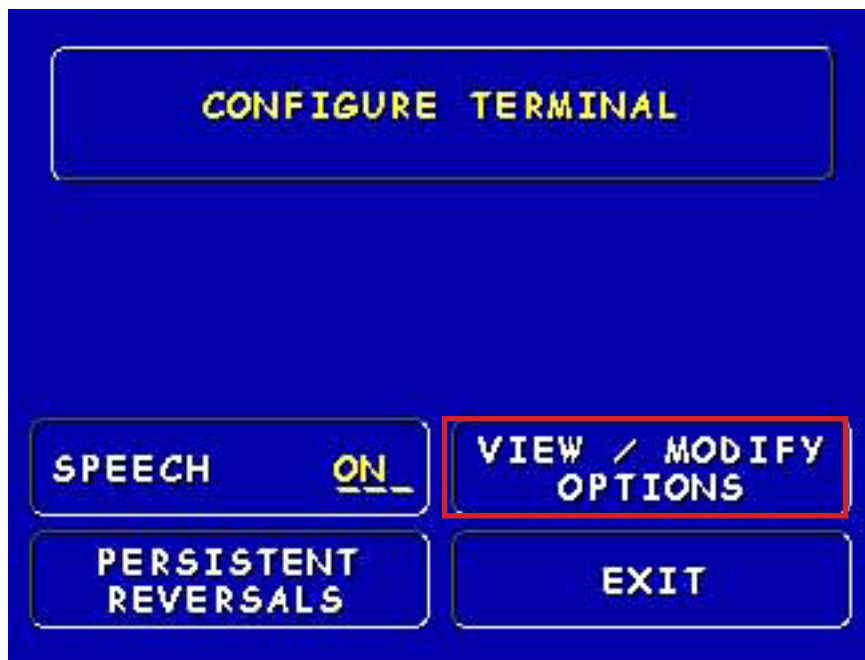
3. Select **More**.



4. Select **More** again.



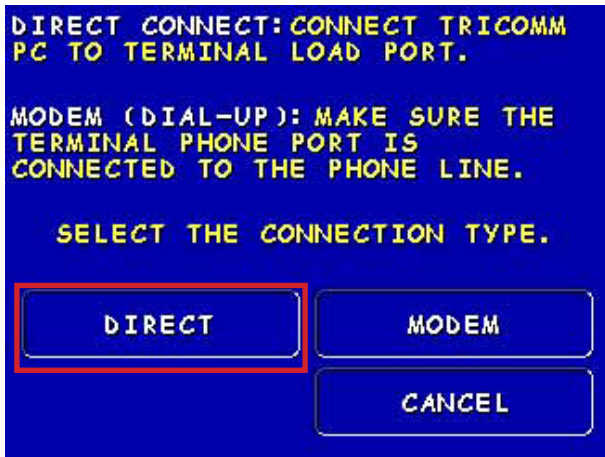
5. Select **View/Modify Options**.



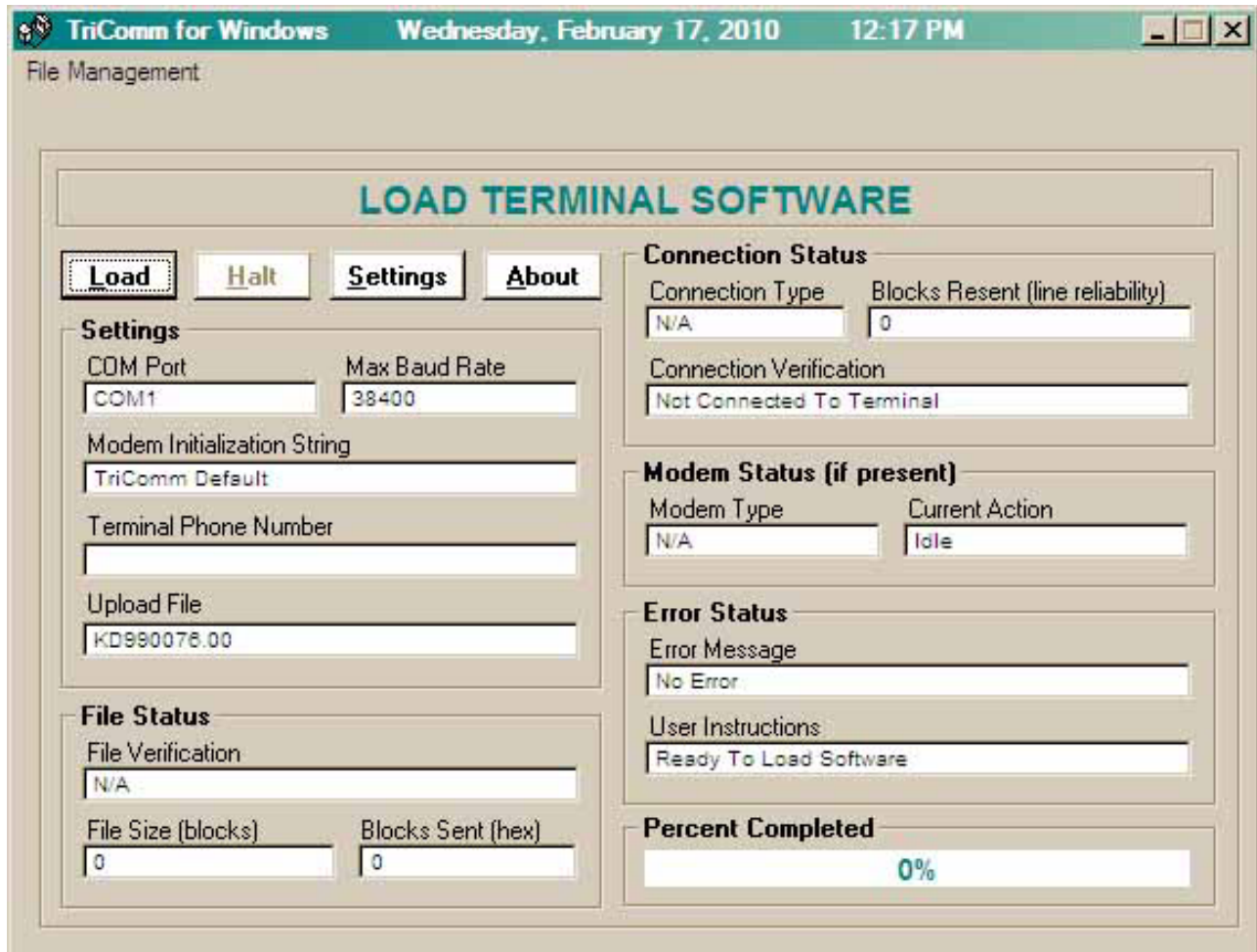
6. Select **Plug - In Management**.



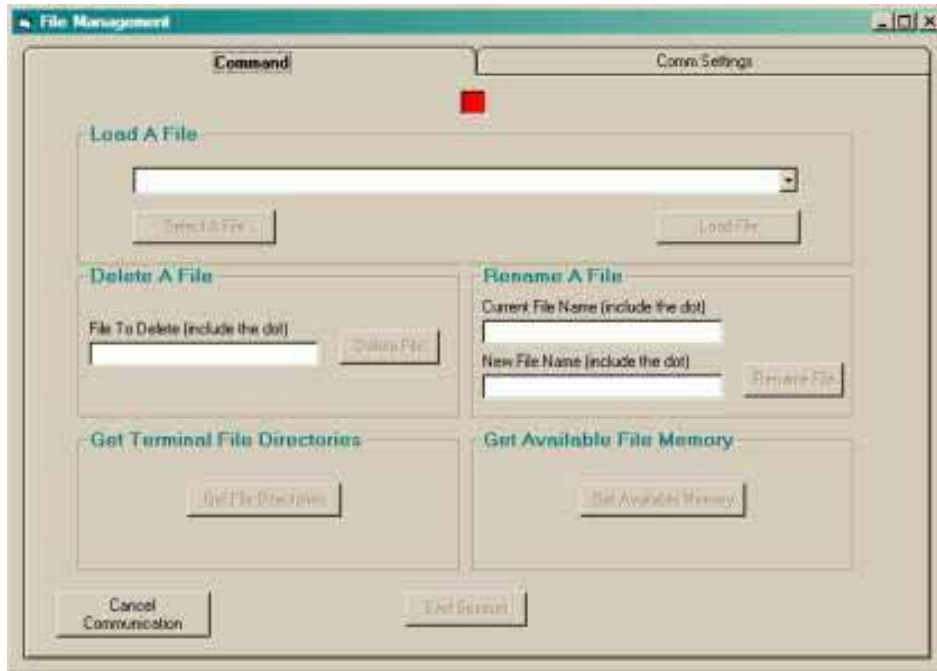
7. Select **Direct** to enable direct-connect mode for connection to TriComm. At this point the terminal is awaiting a connection request from TriComm and the **Awaiting Connection** screen should appear.



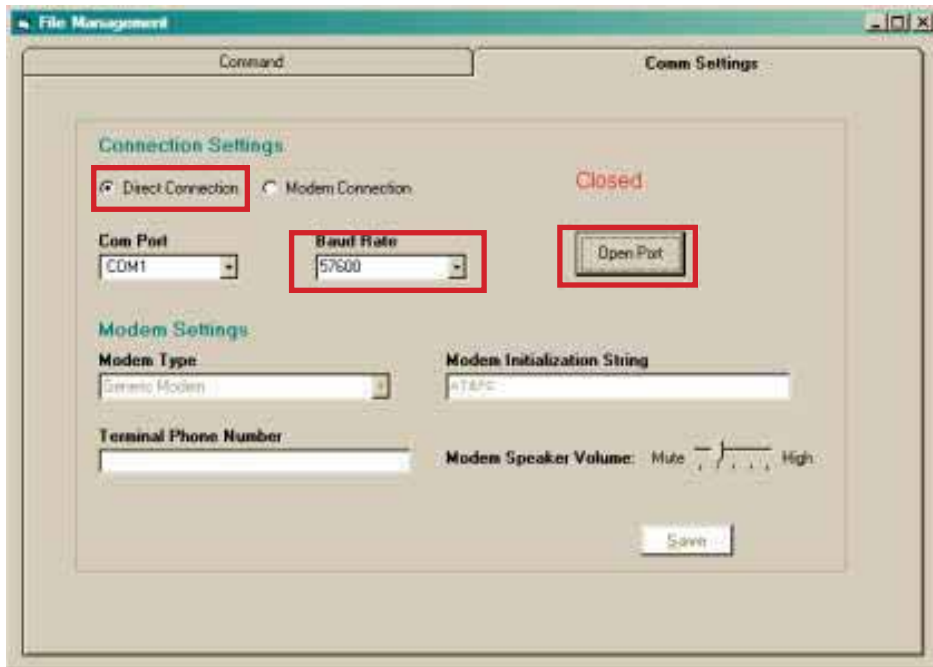
8. Connect the load cable that you typically use to load the terminal software using TriComm. This will vary depending on the model of your terminal.
9. Execute the TriComm application (ver. 2.1.22 or later).



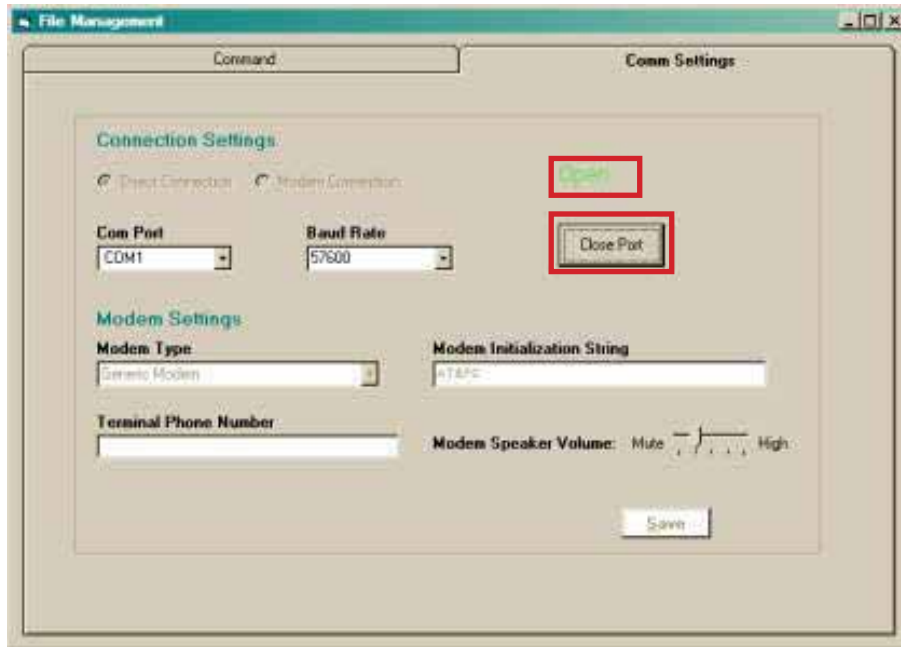
10. Click **File Management** in the top left screen. This will bring up the following screen.



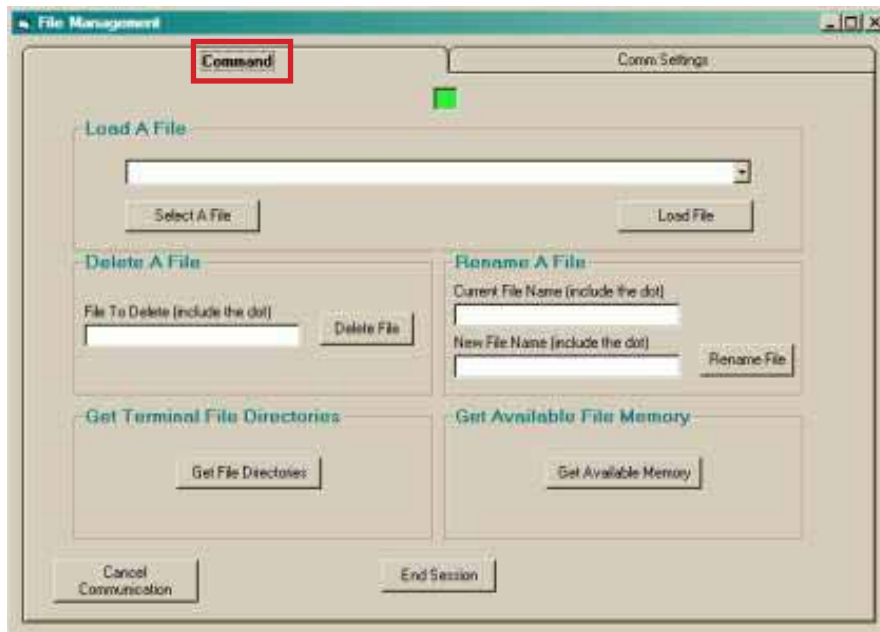
11. Click **Comm Settings**. Then verify that **Direct Connection** is selected and the **Com Port** option is set to whichever Com port you are using. Leave the **Baud Rate** selection at 57600. Then click **Open Port**.



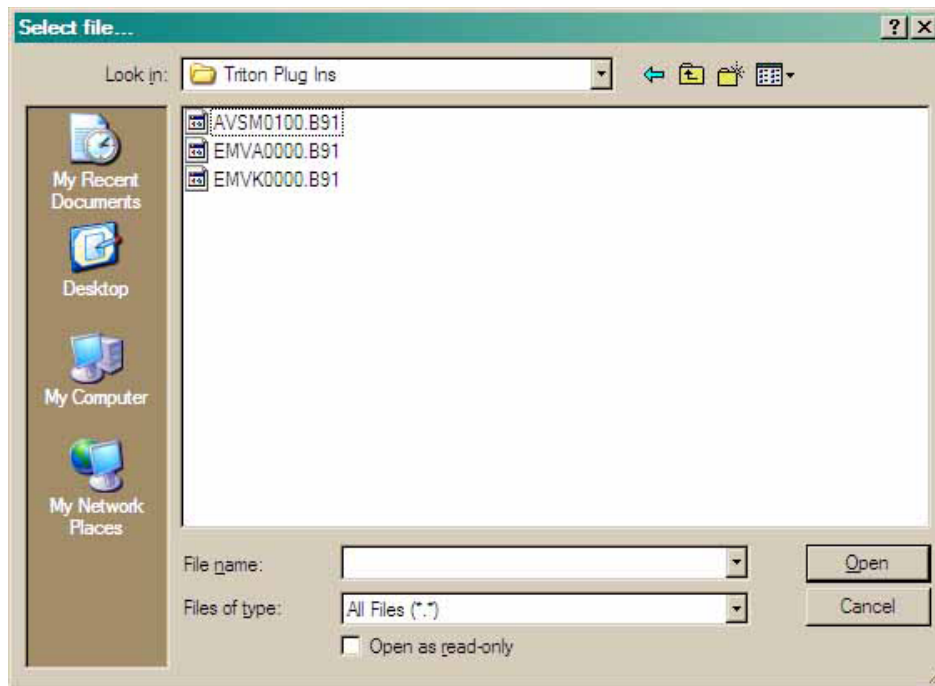
12. The following screen should appear. Verify that the word **Open** now appears above the button you've just clicked and that the button has changed its function to **Close Port**.



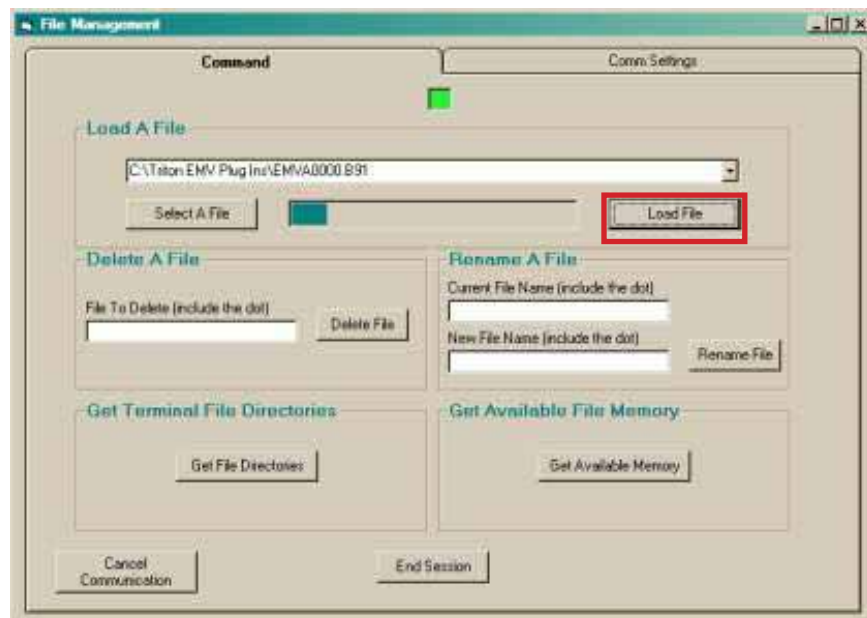
13. Click the **Command** tab to bring up the following screen. Notice the green box indicating that the port is opened.



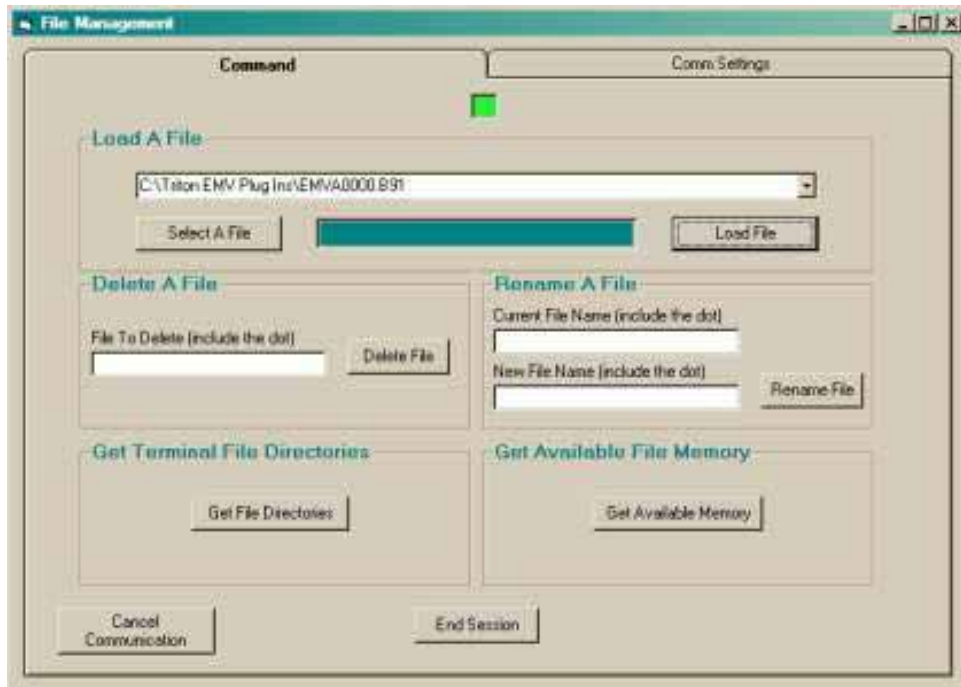
14. Click on **Select File**, then browse to the folder containing the plug-in files you wish to download. Select one of the files and click **Open**.



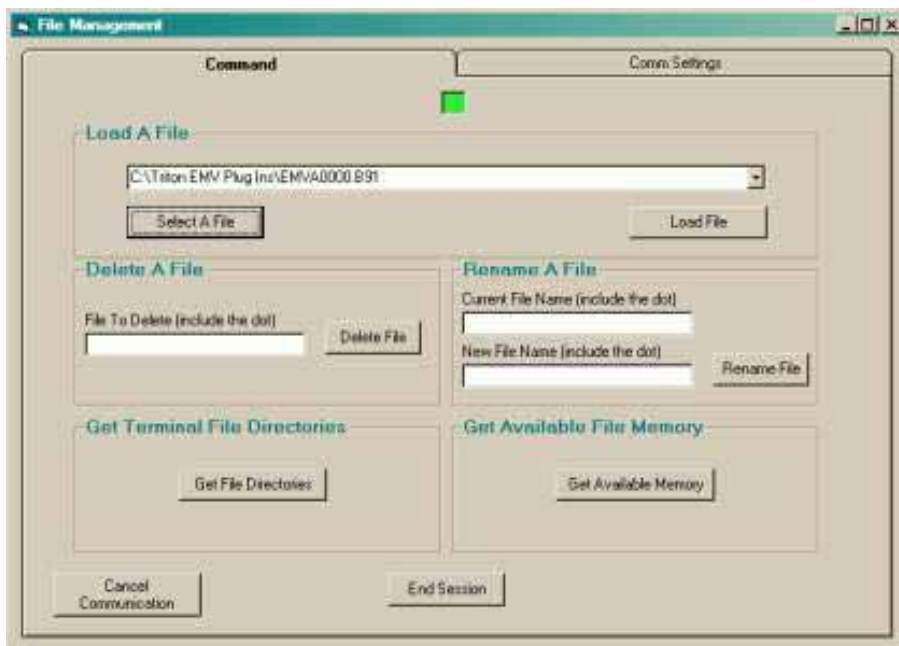
15. The name of the file to download should now appear in the **Load a File** box. Click **Load File** to begin the download. A progress bar will indicate that the file is being sent.



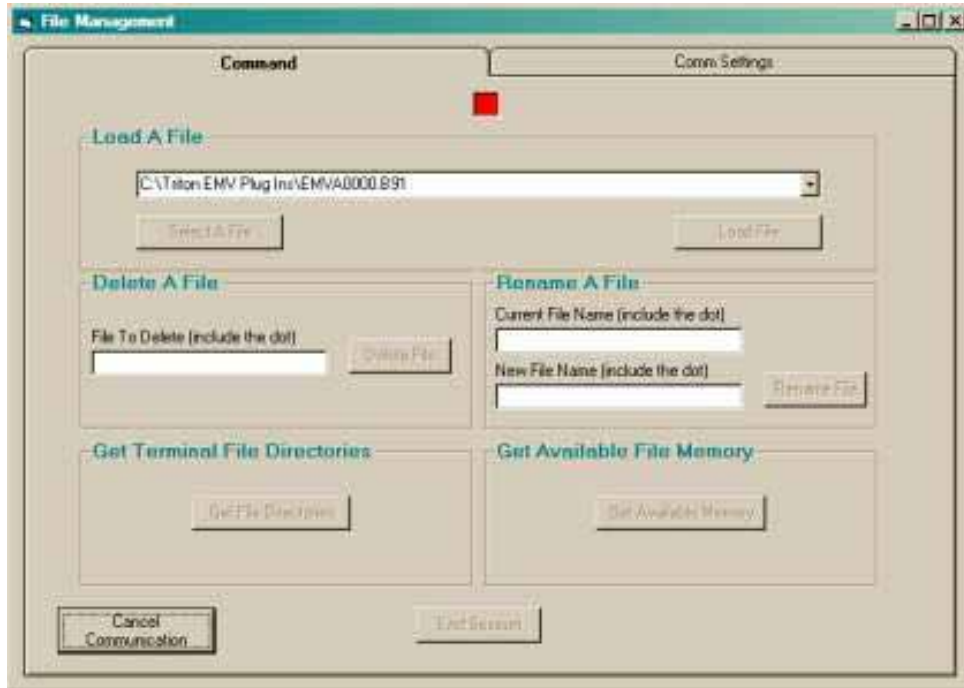
16. When download is complete, the progress bar will completely fill the progress box, momentarily.
NOTE: The ATM terminal screen will display **File Download Successful**.



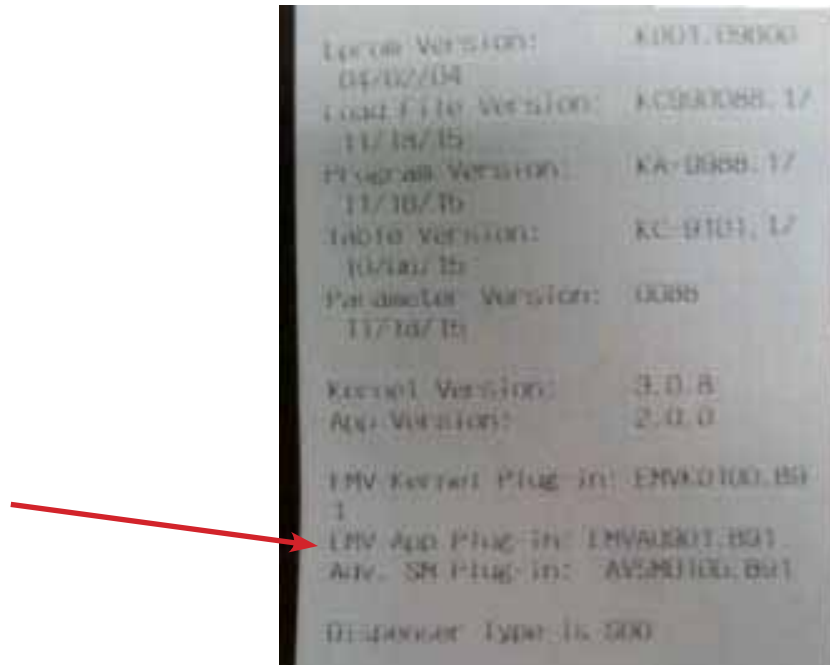
17. The following screen will return.



18. Repeat Steps 14 - 17 for the other Plug-In files. When all required plug-in files are downloaded, you can click **End Session** to disconnect from the terminal or you may optionally use the Get File Directories to verify that the files are now stored properly on the terminal. You can also use the Get Available Memory option to view how much remaining storage space you have on the terminal's memory card. Once End Session has been clicked, you should see the following screen and the terminal will return to normal management functions.



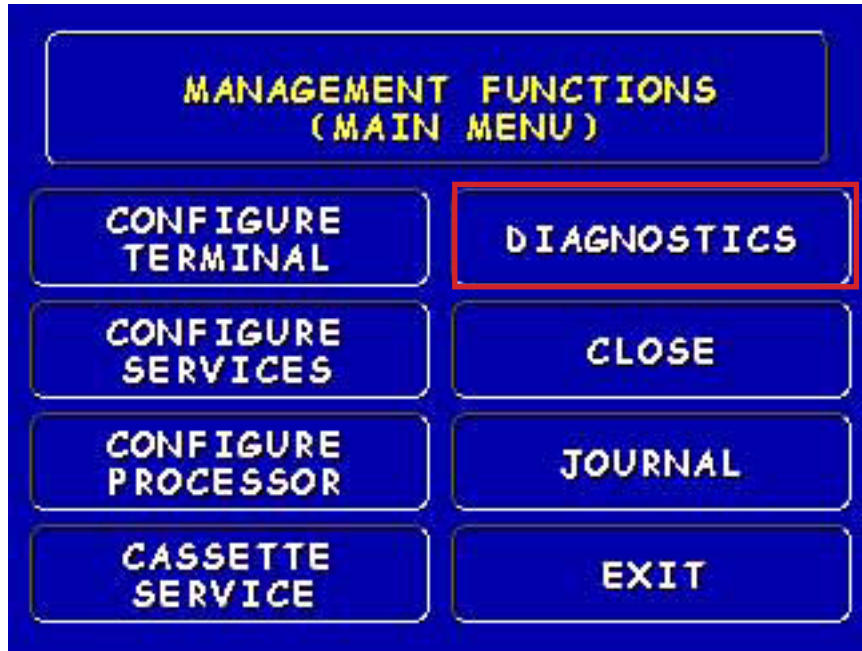
19. **(Optional)**. At the ATM, print the Terminal Configuration Report (via the Receipt Printer Test under Diagnostics) and verify the ASM plug-in (and any others) are listed. (Note: EMV Plug-ins won't appear unless enabled by the presence of the Sankyo 330 card reader.)



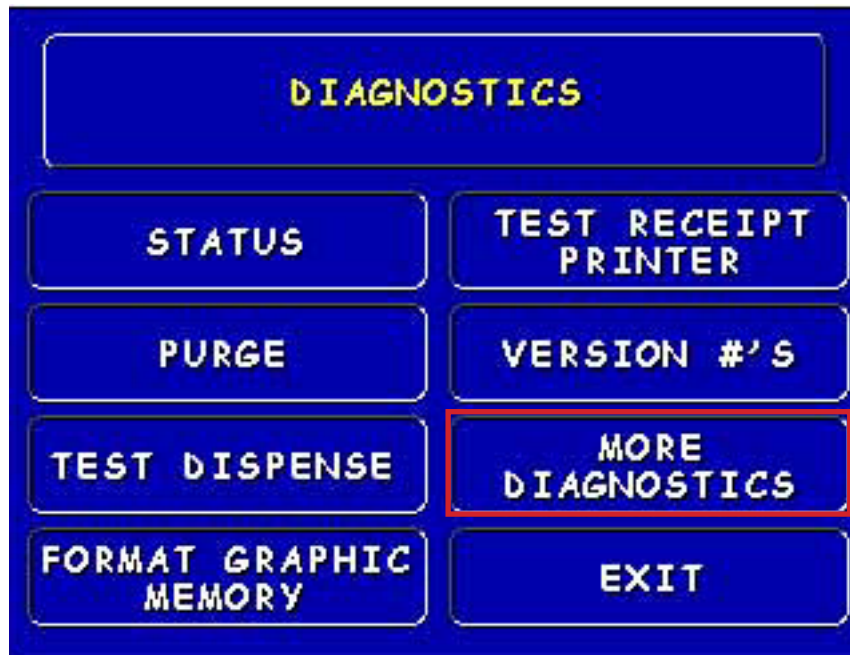
ASM and Dispenser Initialization.

To communicate to the dispenser, the terminal must establish a secure link through the ASM. There are several steps involved.

1. Power up the terminal and enter **Management Functions**.
2. Press **Diagnostics**.



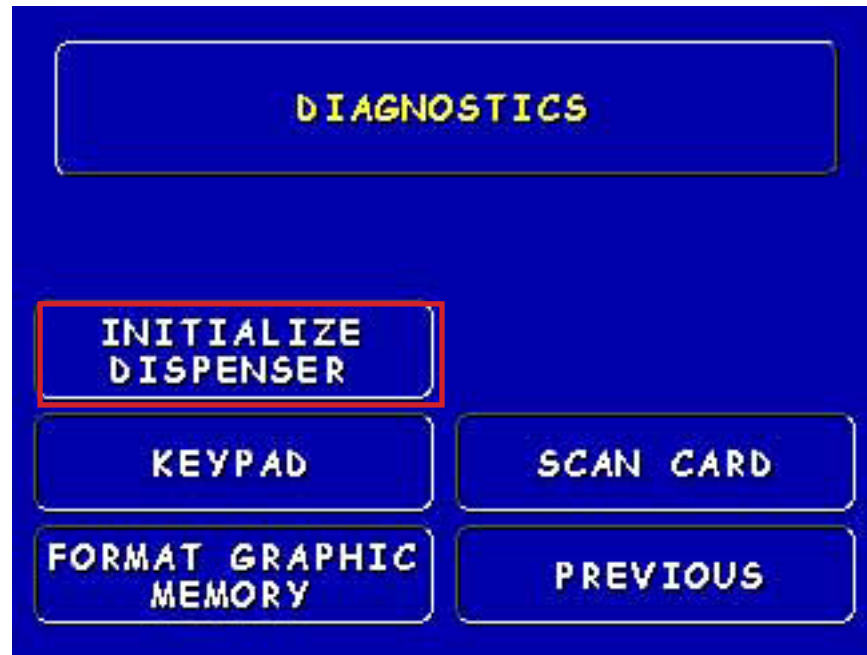
3. Press **More Diagnostics**.



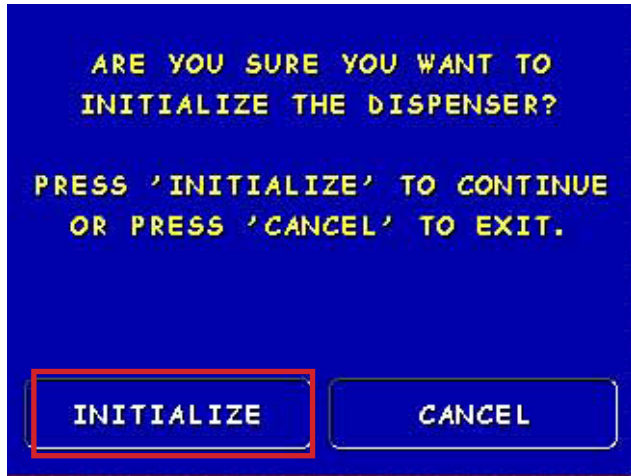
4. Press **More Diagnostics**.



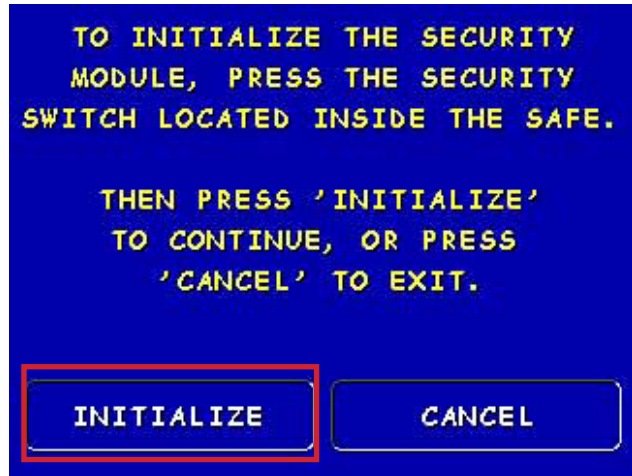
5. Press **Initialize Dispenser**.



6. One of the following screens will appear.:



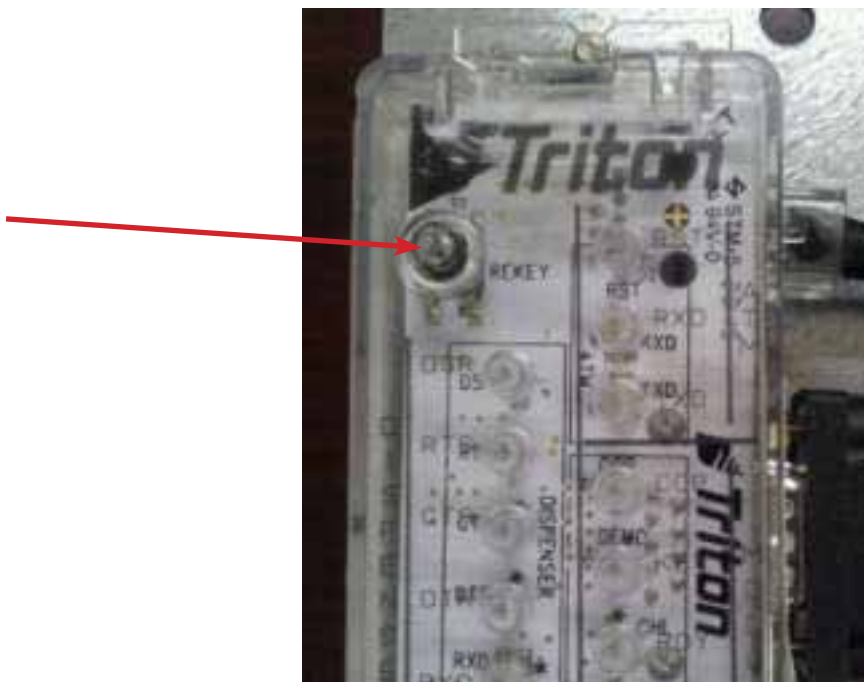
If the ASM has already been linked to the Terminal.



If the ASM has not yet been linked to the Terminal.

NOTE: If the ASM has already been linked, press **INITIALIZE**.

If prompted to press the Security Safety Switch located inside the safe, open the safe door and, using a paperclip or other narrow round tool, press in and release the button labeled **REKEY** on the ASM. Then press **INITIALIZE**.



7. At this point, the terminal will communicate with the ASM to establish a secured link and will then communicate with the dispenser to identify and initialize it. At the conclusion of this, one of the following screens will appear:



Initialization of ASM and dispenser passed.



Initialization of ASM and dispenser failed.

NOTE: If initialization fails, it could be either the ASM link or some problem with the dispenser. Repeat Steps 5-7. If you are not prompted to press the Security Switch in Step 6, then the ASM is very likely working and the problem then rests with the dispenser (or the cabling to the dispenser).

Once a successful initialization has been done, there should be no need to redo the initialization, unless either, the Terminal Software is reloaded, the ASM is replaced, or the dispenser type is changed.

8. (Optional). Print the Terminal Configuration Report (via the Receipt Printer Test under Diagnostics) and verify the ASM plug-in is listed and the correct dispenser is listed under Dispenser Type.

9. Run a customer transaction to test the unit.