



EMV CARD READER UPGRADE

TDN 07103-00196-02 June 25, 2012

Corporate Headquarters

21405 B Street
Long Beach, Ms. 39560
Phone: (800) 259-6672
Fax: (228) 868-9445

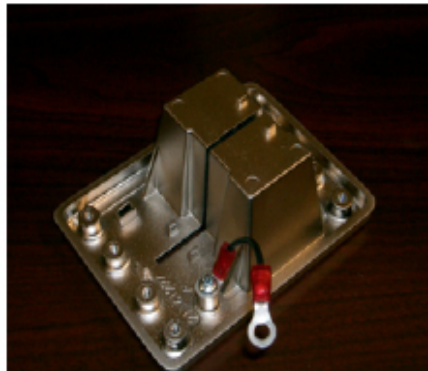
COPYRIGHT NOTICE

© 2012 Triton. All Rights Reserved. TRITON logo is a registered trademark of Triton Systems of Delaware, LLC

Document Updates

June 29 2009	Original
July 10 2009	Consolidate kits from 9 to 3.
Aug 7 2009	Add CreditCall sticker to inside of cabinet
Nov 7 2009	Change ferrite part number in some kits from 01031-00023 to 01030-00010
June 10 2010	Add requirement for Software Service Pack 1 pg3
Feb 11, 2011	Update card reader part number to 09200-00418.
Feb 11, 2012	Version -01 New metal bezel.
June 25, 2012	Version -02 Removed CreditCall Sticker, page 4

This kit includes an updated Metal Bezel, as a replacement for the plastic bezel with brush. This bezel greatly reduces the incidence of card reader damage due to ESD. The installation of the metal bezel is the same as the plastic bezel. Pictures show a plastic bezel for reference purposes. The new metal bezel includes an additional ground wire. Ensure the bezel, mag head, and cabinet grounds are joined. Use the angle bracket as necessary to make ground connections.



Bezel (03011-02079) Ground Wire Jumper (09120-00429)

INTRODUCTION

TABLE OF CONTENTS

INTRODUCTION	3
SECTION 1	9700/81xx/91xx KIT NUMBER 06200-08190	1-1
SECTION 2	FT/RT KIT NUMBER 06200-08196	2-1
SECTION 3	RL5/RL2 KIT NUMBER 06200-08192	3-1

PURPOSE

This guide covers the steps for replacing your current card reader with a new EMV model. 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

These conversion kits apply to Model 97xx; 81xx/91xx; RT2k Xscale; RL5k Xscale; FT5k Xscale; RL5k X2; FT5k X2; RT2k X2; RL2k X2; ATMs. The EMV card reader should be used with a PCI Compliant SPED. If you have any questions contact Triton Technical Support.

NOTES:

SOFTWARE DEPENDENCY

It is possible that your unit **will not** recognize the new EMV card reader with your current software. The most current software is available for your unit on the Triton web site (<http://www.Triton.com>) or contact Triton Technical Support.

X2 The following software is available and is **REQUIRED**.
- 2.4.2 or newer

8100/9100 & 9700 EMV Utility files are available on the Triton web site. These files allow the recognition of the card reader, and may be necessary. There are two methods of updating your terminal.

1. If you choose to load the full load file, you will not need these utilities, card reader recognition is included, but you will have to configure your terminal from square one.
2. If you choose to load the update file, you will retain terminal configuration settings, BUT, YOU WILL HAVE TO LOAD THE APPROPRIATE UTILITY FILE ON TOP OF THE UPDATE FILE FOR CARD READER RECOGNITION.

The file names on the web site are 9100EMV.exe and 9700EMV.exe. These are zipped files with the utility file inside. Refer to the Release Notes for Canada 7.0 for further information.

UNIT CONFIGURATIONS

Due to production, rehab, update, or repair differences, your unit **may vary** in hardware, or 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 the card reader hardware.

KITS

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

NOTE:

Place the appropriate EMV compliance sticker in the upper part of the cabinet. On the left side next to the identification sticker is suggested.

SECTION 1

EMV CARD READER

UPGRADE

9700 / 81xx / 91xx

KIT 06200-08190

EMV CARD READER UPGRADE PROCEDURES

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#1 & #2 philips screwdriver, 6 inch shank / small open end wrenches, 1/4” & 11/32”
KIT 06200-08190	Card Reader Upgrade Kit

9700 Choose parts in column 1
81xx / 91xx Choose parts in column 2

1	2	Part #	Description	Qty
x	x	03011-02079	Metal Bezel IS65 card reader	1
x	x	01162-00034	Card reader EMV I-65 No Bezel	1
x	x	09120-00429	Ground wire	1
x	x	01080-00089	Cable Card Reader EMV ROHS	1
x	x	02054-00165	Screw #6-32 3/8 inch Zinc Steel Pan Phillips Head w/Cone Wash ROHS	4
x	x	02318-00000	Standoff #8-32 X 3/4 Inch Brass Hex	1
x	x	03072-00015	6” TY Wrap ROHS	1
x	x	07103-00196	EMV Card Reader Upgrade Documentation	1
x		02054-00169	Screw #8-32 3/8 Inch Pan Phil Head w/Ext Tooth Wash ROHS	1
x		02301-00024	Nut #8-32 Hex Nut Ext Tooth Wash ROHS	1
	x	01030-00010	Ferrite ROHS	1
	x	02054-00200	Screw #8-32 3/8 Inch Pan Phillips Head with patch ROHS	1

This kit includes an updated Metal Bezel, as a replacement for the plastic bezel with brush. This bezel greatly reduces the incidence of card reader damage due to ESD. The installation of the metal bezel is the same as the plastic bezel. Pictures show a plastic bezel for reference purposes. The new metal bezel includes an additional ground wire. Ensure the bezel, mag head, and cabinet grounds are joined. Use the angle bracket as necessary to make ground connections.



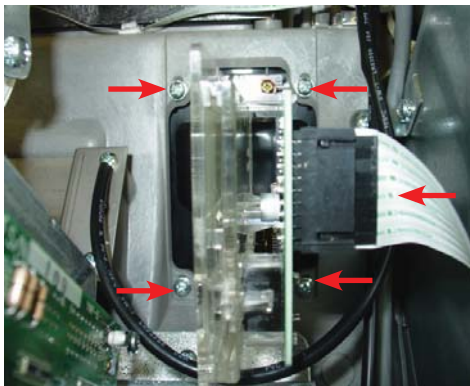
Bezel (03011-02079) Ground Wire Jumper (09120-00429)

9700 REMOVE AND REPLACE PROCEDURES

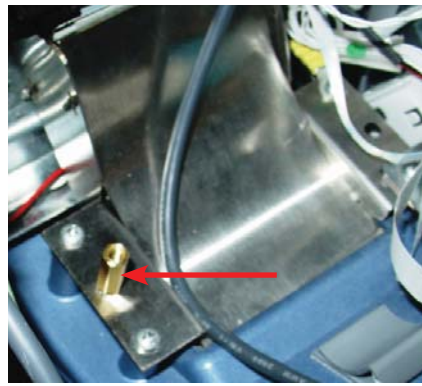
Before proceeding, follow these steps to remove power from the ATM:

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

1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



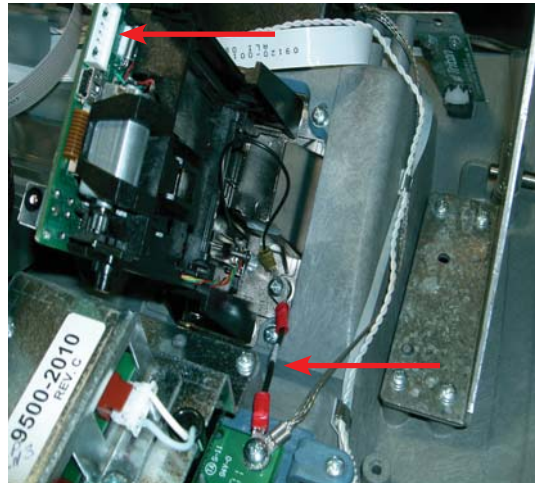
◆ Disconnect ribbon cable, remove 4 (four) screws. Do not drop card reader.



◆ Install standoff (1/4" wrench) and nut (11/32" wrench), TIGHTEN firmly.

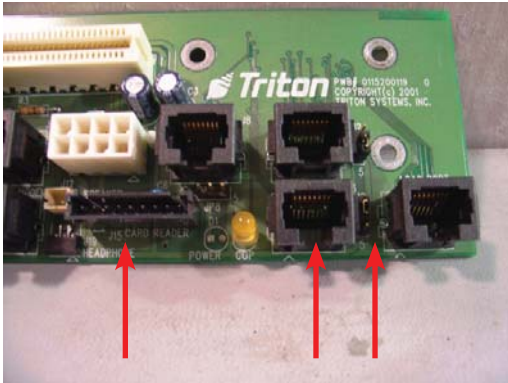


◆ Remove screw retaining ground cables on corner of new EMV card reader.
◆ Install card reader as shown and secure with 4 (four) screws provided.

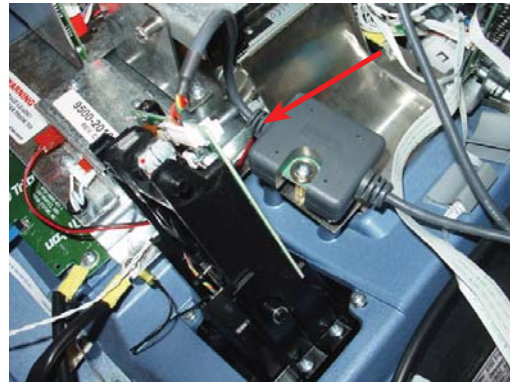


◆ Remove ground screw from corner of display bracket and attach card reader ground cables to cabinet grounds. (metal bezel & mag head)
◆ Attach new cable to card reader.

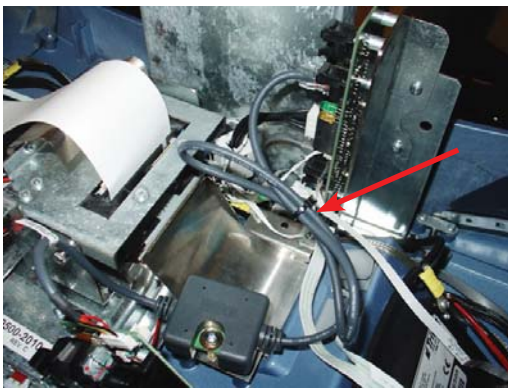
EMV CARD READER UPGRADE PROCEDURES



- ◆ Disconnect ribbon cable from docking board.
- ◆ Connect new cable to PORT 3.
- ◆ Ensure jumper (J13) is set for 12v. (center pin and top pin)



- ◆ Attach ESD block to standoff. Notice it is slightly tilted to the left to allow for sufficient clearance of the strain relief.



- ◆ Secure excess cable with Ty wrap.

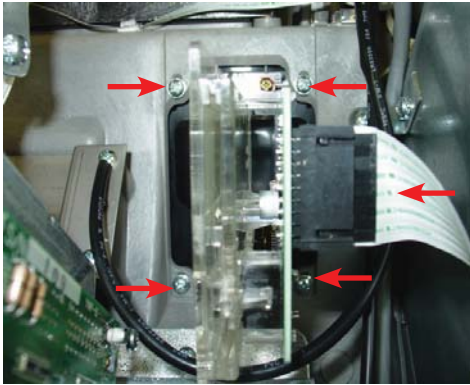
4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

81XX / 91XX REMOVE AND REPLACE PROCEDURES

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

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

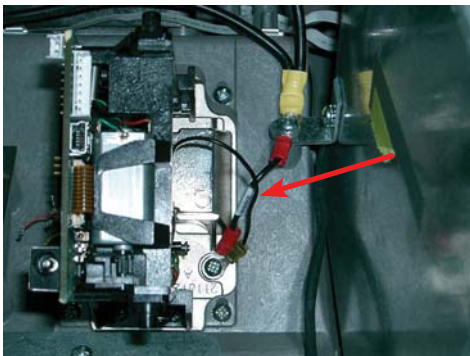
1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



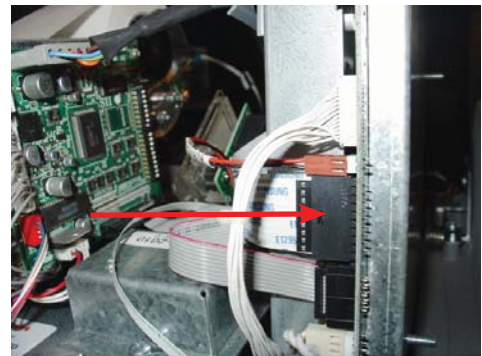
◆ Disconnect ribbon cable, remove 4 (four) screws. Do not drop card reader.



◆ Remove screw retaining ground cables on corner of new EMV card reader.
◆ Install card reader as shown and secure with 4 (four) screws provided.

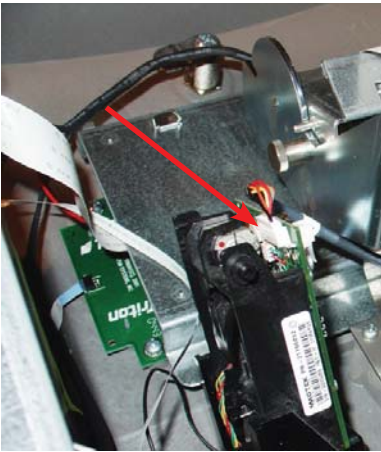


◆ Attach the mag head cable and jumper cable to the metal bezel. Attach the other end of the jumper cable to the "L" bracket along with cabinet ground harness.

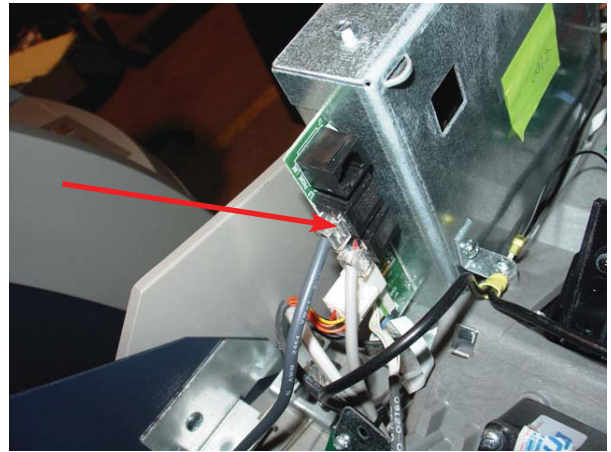


◆ Remove original card reader ribbon cable from mother board

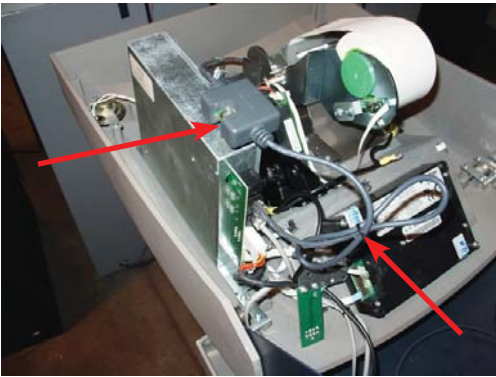
EMV CARD READER UPGRADE PROCEDURES



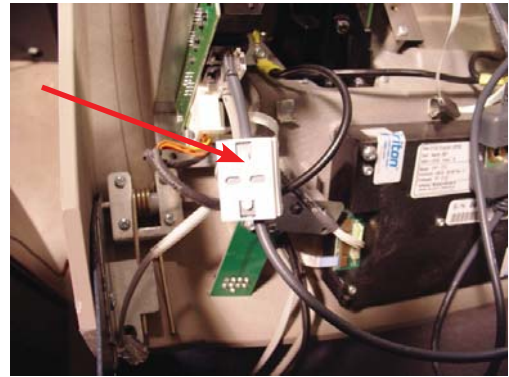
◆ Connect new cable to card reader.



◆ Connect new card reader cable to port shown on the mother board.



- ◆ Remove screw in corner of main board case and mount the stand off, finger tight.
- ◆ Attach the ESD block to the stand off with the screw provided.
- ◆ Secure excess cable with Ty wrap.



◆ Attach the external ferrite to the cable connector close to the mother board as shown. Ensure it is snapped securely.

4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

SECTION 2

EMV CARD READER

UPGRADE

RT / FT

KIT 06200-08196

EMV CARD READER UPGRADE PROCEDURES

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#1 & #2 philips screwdriver, 6 inch shank 11/32 in open end wrench
KIT 06200-08196	Field Replacement Kit

RT/FT X2 Choose parts in column 1
FT5k XScale & XP Choose parts in column 2
RT XScale Choose parts in column 3

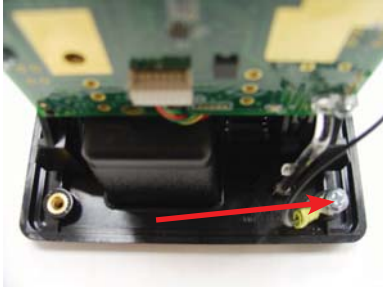
1	2	3	Part #	Description	Qty
x	x	x	01162-00026	Card reader I-65 EMV	1
x	x	x	02054-00190	Screw PH 4mm x 12mm Self-Tapping Plastite Pan Head ROHS	4
x	x	x	03110-00066	Bezel Card Reader EMV	1
x	x	x	03619-00011	Gasket Card Reader ROHS	1
x	x	x	07103-00196	EMV Card Reader Upgrade Documentation	1
x			02617-00030	Snap-in open/closed bushing ROHS	1
x			03011-00537	Card Reader Cover	1
x			03011-00538	Card Reader Cover Door	1
x			09120-07053	EMV Card Reader Cable, 12" ROHS	1
	x	x	01030-00010	Ferrite Round Cable Snap-Its for Card Reader Cable	1
	x	x	01080-00099	Cable, Card Reader, EMV ROHS	1
	x	x	02054-00169	Screw #8-32 3/8 Inch Pan Phil Head w/Ext Tooth Wash ROHS	1
	x	x	02301-00024	Nut #8-32 Hex Nut Ext Tooth Wash ROHS	1
	x	x	09120-00122	Door Ground Strap ROHS	1
		x	02054-00165	Screw #6-32 3/8 inch Zinc Steel Pan Phillips Head w/Cone Wash ROHS	1

NOTE: The metal bezel is not applicable to this installation.

PRELIMINARY ASSEMBLY FOR ALL RT / FT

Before proceeding to your site, perform the following assembly on your work bench.

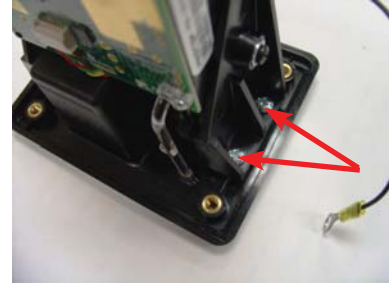
This procedure is required to transfer the EMV from a Lobby type bezel, to a Thru the Wall type bezel.



◆Remove ground screw from corner of EMV.



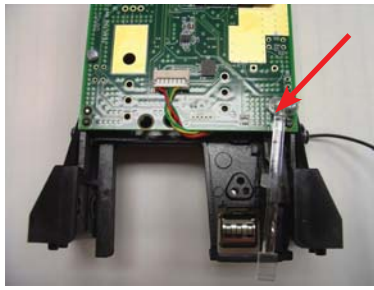
◆Notice the orientation of the EMV to the bezel.



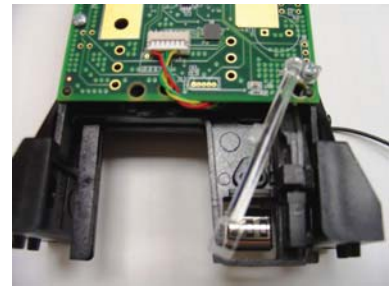
◆Remove the 2 (two) screws on the right side of the EMV.



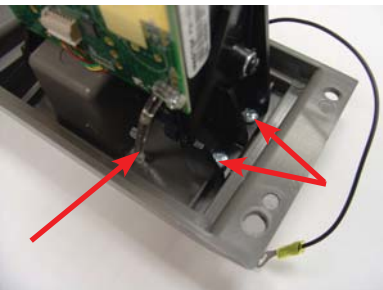
◆Remove the 2 (two) screws on the left side of the EMV, remove bezel by grasping the light tube and pulling on the bezel firmly.



◆Loosen the screw retaining the light tube. It must be moved so as not to interfere with the new bezel.



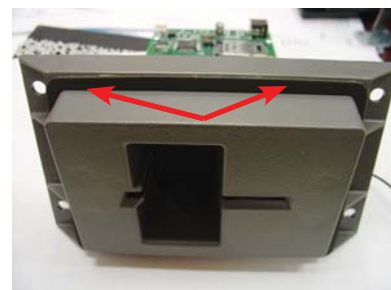
◆Move the light tube to the left about 30°. and retighten the screw. There is a small nub on the base of the tube next to the circuit board, do not break it.



◆Attach the EMV to the new bezel with 2 (two) screws on the right side, (note the moved light tube)



and 2 (two) screws on the left.



◆Carefully remove the bezel gasket from the gasket sheet.
◆Remove the protective backing and apply the gasket to the bezel as shown.

This completes the preliminary assembly of the EMV and bezel.

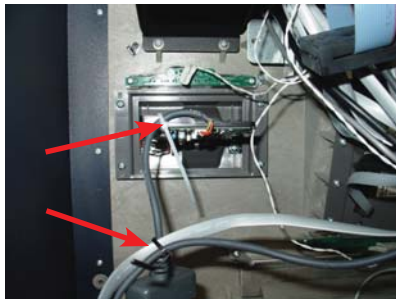
EMV CARD READER UPGRADE PROCEDURES

RT 2K XSCALE REMOVE AND REPLACE PROCEDURES

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

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. Unlock and open the ATM control panel. Turn the power switch to the OFF (0) position. If possible, unplug the ATM power cord at the wall outlet.

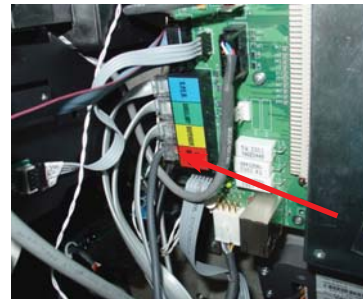
1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



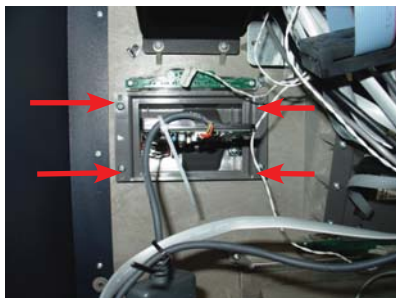
◆Cut and remove any ty wraps that are retaining the card reader to docking board cable. Examples shown.



◆Disconnect and remove the card reader cable from the card reader to...



the docking board.



◆Remove the 4 (four) screws from the card reader.



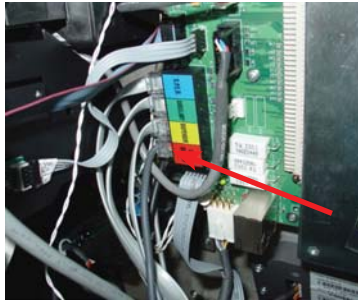
◆Install the new EMV and bezel assembly with 4 (four) screws. Notice the EMV ground connection.



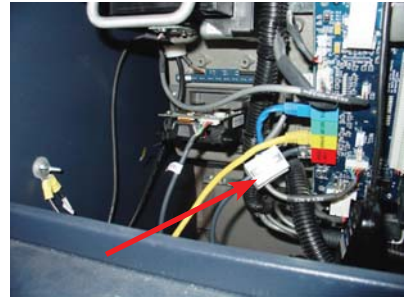
◆Attach the ground cable to the ESD as shown using the #8-32 screw with Ext tooth washer, and Hex nut.



◆Connect the new card reader cable from the card reader to...



the docking board.



◆Attach the ferrite to the cable, ensure it is securely snapped.



◆Attach the ESD ground cable to the ground point on the side of the cabinet.

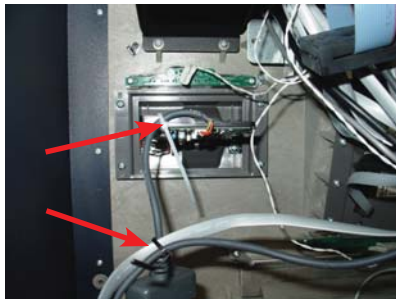
4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

FT5K XSCALE REMOVE AND REPLACE PROCEDURES

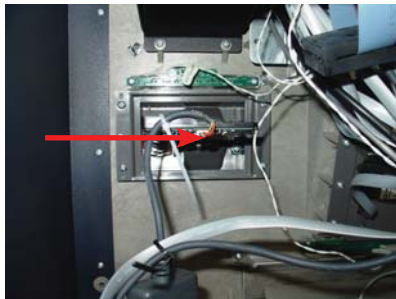
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. When prompted, turn power **OFF** on the ATMs 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.

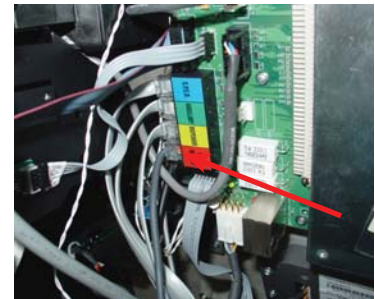
1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



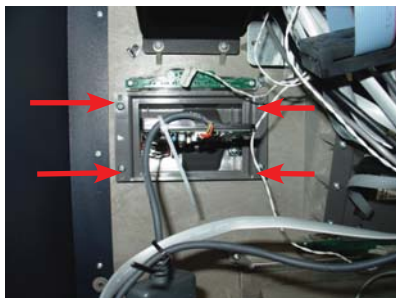
◆Cut and remove any ty wraps that are retaining the card reader to docking board cable. Examples shown.



◆Disconnect and remove the card reader cable from the card reader to...



the docking board.



◆Remove the 4 (four) screws from the card reader.



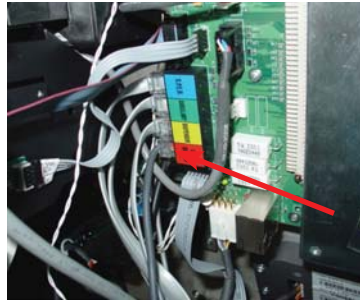
◆Install the new EMV and bezel assembly with 3 (three) screws. Notice the EMV ground connection, and leave that screw out for now.



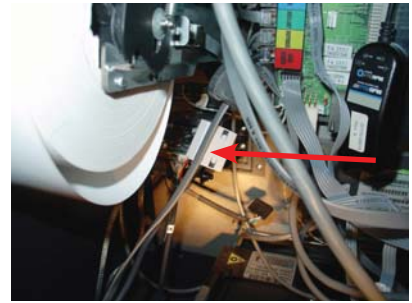
◆Attach the ground cable to the ESD as shown with the #8-32 screw with Ext tooth washer, and Hex nut.



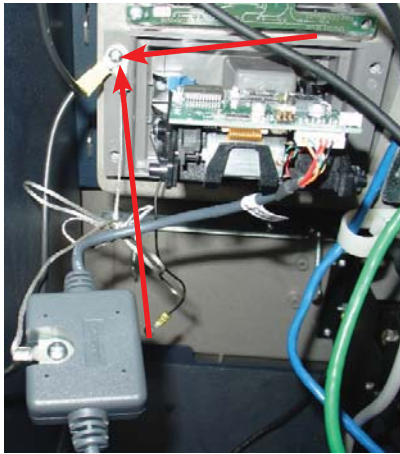
◆Connect the new card reader cable from the card reader to...



the docking board.



◆Attach the ferrite to the cable, ensure it is securely snapped.



◆Attach the ESD and card reader ground cables to the grounding point on the card reader (may be upper or lower left) with the fourth screw.

4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

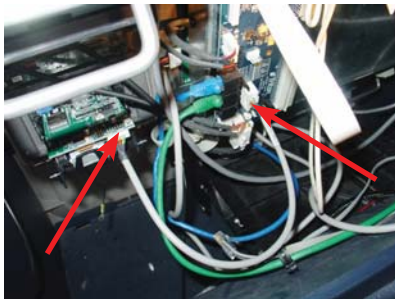
EMV CARD READER UPGRADE PROCEDURES

FT5K X2 REMOVE AND REPLACE PROCEDURES

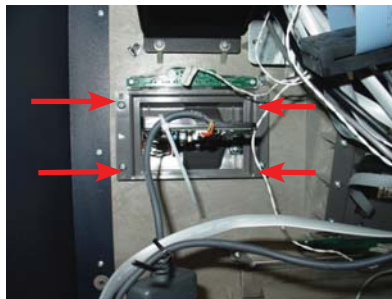
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. When prompted, turn power **OFF** on the ATMs 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.

1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



◆Disconnect and remove the card reader cable from the card reader to the docking board.

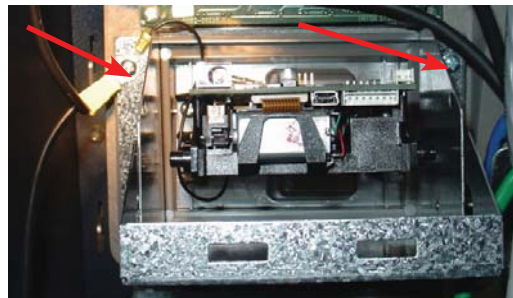


◆Remove the 4 (four) screws from the card reader. Note any ground connections.

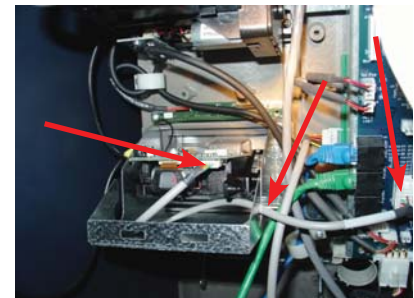


◆Position the card reader and bracket as shown, they are installed as a unit.

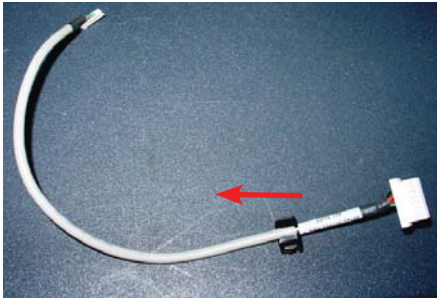
DO NOT be tempted to skip installing the bracket and cover. They provide protection for the card reader as the printer mechanism is unlatched and lowered.



- ◆Place a screw in the upper right hole, and use the screwdriver to hold the screw as you place the bracket and card reader into the front fascia.
- ◆Install the screws in the lower right, and lower left.
- ◆The upper left screw is used as the ground, as shown. The card reader ground is routed toward the front, and up over the bracket.
- ◆Additional grounds may be on the upper left or upper right screws.



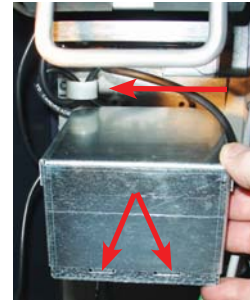
- ◆Connect the new cable to the card reader and docking board.
- ◆Route the cable through the slot in the right side of the bracket.



◆Place the cable bushing around the cable, close to the docking board end, with the snap in fingers facing the card reader end. Cable shown disconnected for reference.



◆Slide the bushing down to the slot on the bracket.
◆Squeeze the bushing while pushing it into the bracket.



◆And now the difficult part.
◆Place the cover over the bracket.
◆Lift the front slightly until the 2 (two) tabs at the rear can be placed into the slots. It will be a tight fit with the printer above.
◆Ensure any cables in the front will not interfere with the closing of the cover. Reroute as necessary.
◆Snap the cover closed.

4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

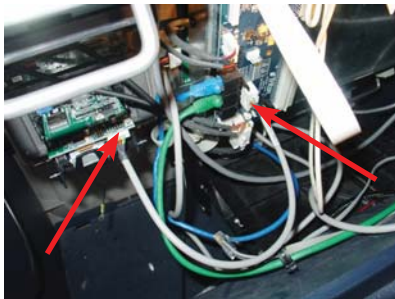
EMV CARD READER UPGRADE PROCEDURES

RT2K X2 REMOVE AND REPLACE PROCEDURES

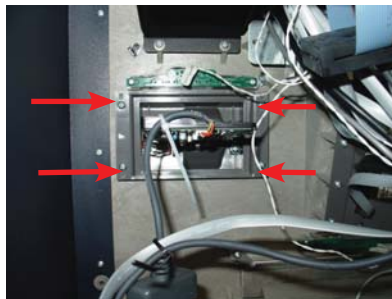
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. When prompted, turn power **OFF** on the ATMs 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.

1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



◆Disconnect and remove the card reader cable from the card reader to the docking board.

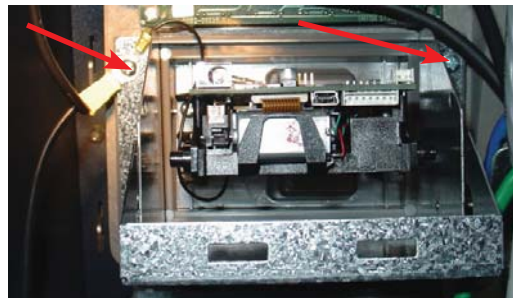


◆Remove the 4 (four) screws from the card reader. Note any ground connections.

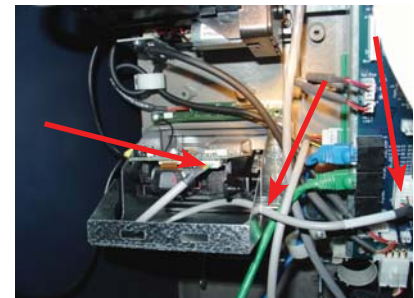


◆Position the card reader and bracket as shown, they are installed as a unit.

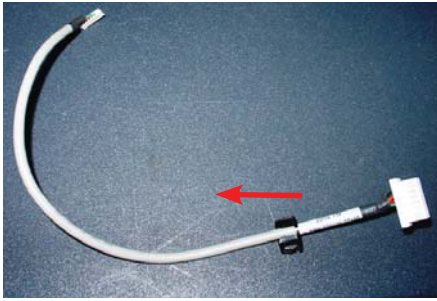
DO NOT be tempted to skip installing the bracket and cover. They provide protection for the card reader as the printer mechanism is unlatched and lowered.



- ◆Place a screw in the upper right hole, and use the screwdriver to hold the screw as you place the bracket and card reader into the front fascia.
- ◆Install the screws in the lower right, and lower left.
- ◆The upper left screw is used as the ground, as shown. The card reader ground is routed toward the front, and up over the bracket.



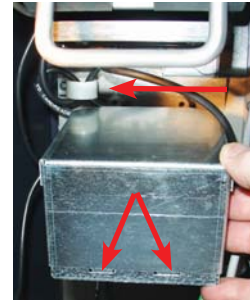
- ◆Connect the new cable to the card reader and docking board.
- ◆Route the cable through the slot in the right side of the bracket.



◆Place the cable bushing around the cable, close to the docking board end, with the snap in fingers facing the card reader end. Cable shown disconnected for reference.



◆Slide the bushing down to the slot on the bracket.
◆Squeeze the bushing while pushing it into the bracket.



◆And now the difficult part.
◆Place the cover over the bracket.
◆Lift the front slightly until the 2 (two) tabs at the rear can be placed into the slots. This will be a tight fit with the printer above.
◆Ensure any cables in the front will not interfere with the closing of the cover. Reroute as necessary.
◆Snap the cover closed.

4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 3

EMV CARD READER

UPGRADE

RL5000 / RL2000

KIT 06200-08192

EMV CARD READER UPGRADE PROCEDURES

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#1 & #2 philips screwdriver, 6 in. shank, 1/4 in open end wrench or nut driver
KIT 06200-08192	Field Replacement Kit

RL 2k X2 Choose parts in column 1

RL 5k X2 Choose parts in column 2

RL 5k XScale Choose parts in column 3

1	2	3	Part #	Description	Qty
x	x	x	01162-00034	Card Reader EMV I-65 EMV 4.0	1
x	x	x	03011-02079	Metal Bezel	1
x	x	x	07103-00196	EMV Card Reader Upgrade Documentation	1
x	x		02054-00165	Screw #6-32 3/8 inch Zinc Steel Pan Phillips Head w/Cone Wash ROHS	4
x	x		09120-07052	EMV Cardreader Cable ROHS	1
		x	01030-00010	Ferrite Round Cable Snap-Its for Card Reader Cable	1
		x	01080-00099	Cable, Card Reader, EMV ROHS	1
		x	02054-00163	Screw #6-32 1/2 Inch Pan Phil Head w/Ext Tooth Wash ROHS	1
		x	02054-00169	Screw #8-32 3/8 Inch Pan Phil Head w/Ext Tooth Wash ROHS	1
		x	02318-00000	Standoff #8-32 X 3/4 Inch Brass Hex	1

This kit includes an updated Metal Bezel, as a replacement for the plastic bezel with brush. This bezel greatly reduces the incidence of card reader damage due to ESD. The installation of the metal bezel is the same as the plastic bezel. Pictures show a plastic bezel for reference purposes. The new metal bezel includes an additional ground wire. Ensure the bezel, mag head, and cabinet grounds are joined. Use the angle bracket as necessary to make ground connections.



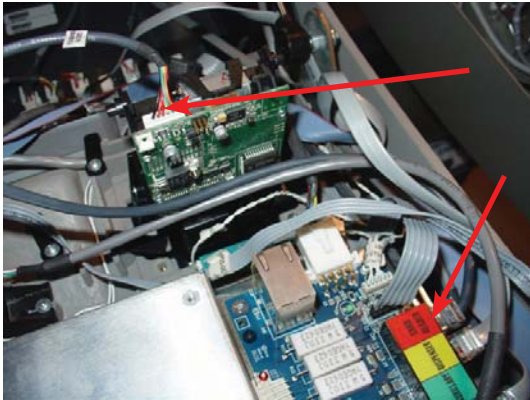
Bezel (03011-02079) Ground Wire Jumper (09120-00429)

RL5k XSCALE REMOVE AND REPLACE PROCEDURES

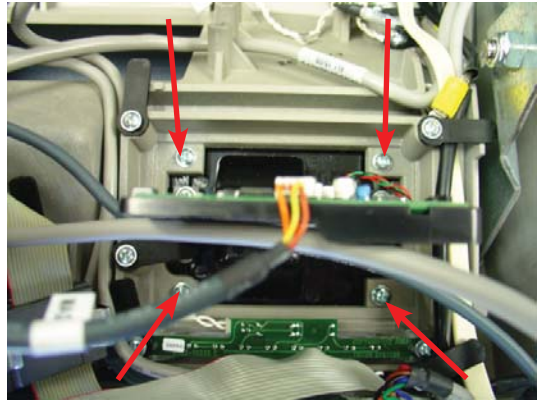
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. When prompted, turn power **OFF** on the ATMs 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.

1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



◆ Disconnect and remove the card reader to docking board cable.



◆ Remove the 4 (four) corner screws retaining the card reader.

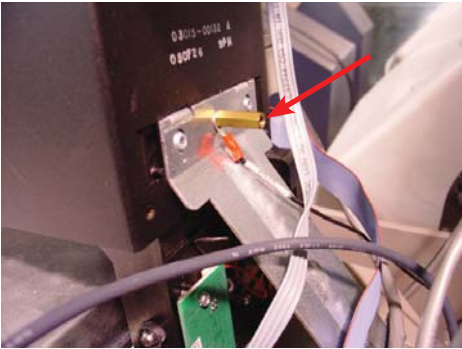


◆ Remove screw retaining ground cables on corner of new EMV card reader.
◆ Install card reader as shown and secure with 4 (four) screws provided.



◆ Remove screw and attach EMV grounds to this point, using the angle bracket..

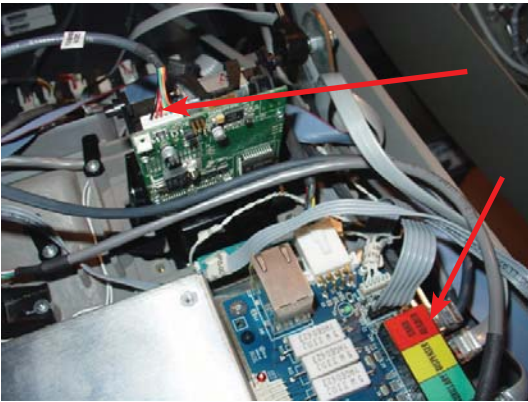
EMV CARD READER UPGRADE PROCEDURES



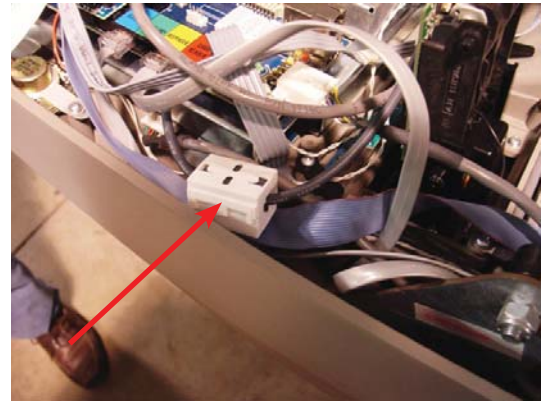
◆ Install standoff in position shown, tighten with 1/4 in. wrench or nut driver.



◆ Install ESD as shown.



◆ Connect the cable to the card reader and docking board.



◆ Attach the ferrite to the cable close to the docking board, ensure it is securely snapped.

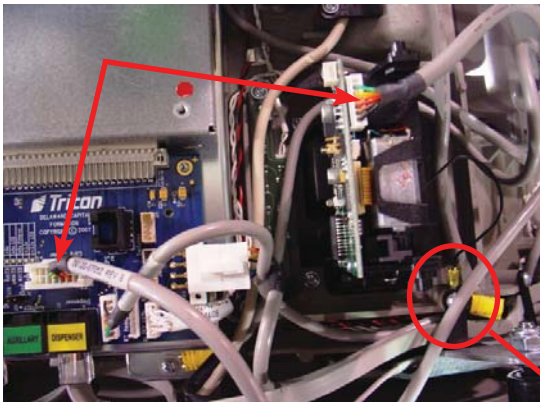
4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

RL5K X2 REMOVE AND REPLACE PROCEDURES

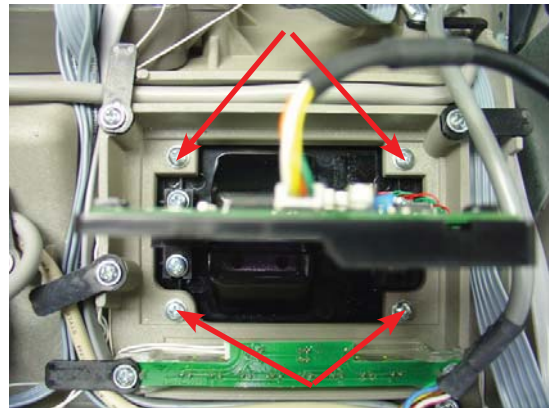
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. When prompted, turn power **OFF** on the ATMs 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.

1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



◆ Disconnect and remove the card reader to docking board cable. The docking board end has a safety clip.



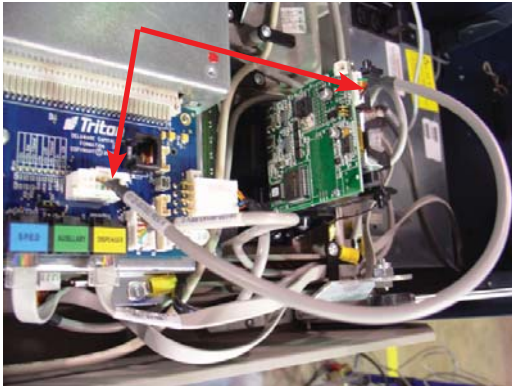
◆ Remove the 4 (four) screws retaining the card reader.



◆ Remove screw retaining ground cables on corner of new EMV card reader.
◆ Install card reader as shown and secure with 4 (four) screws provided.



◆ Remove the ground screw and cable retainer, and attach the card reader ground cables using the angle bracket.



◆ Connect the new cable to the card reader and the docking board.

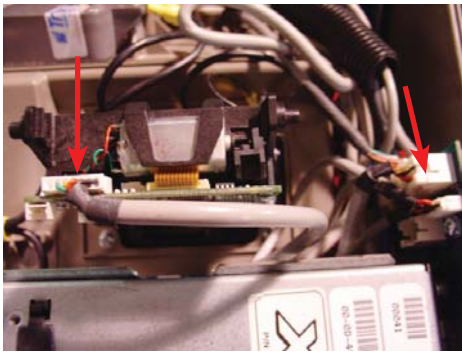
4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.

RL2K X2 REMOVE AND REPLACE PROCEDURES

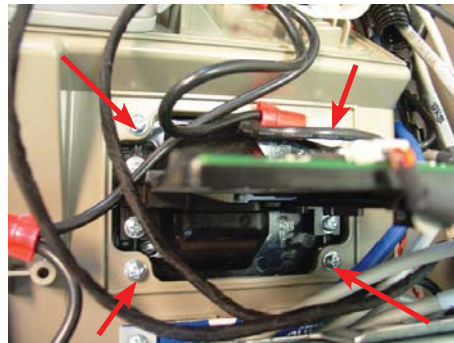
Before proceeding, follow these steps to remove power from the ATM:

Enter **Management Functions > System Parameters > Shut Down the Terminal > Enter**. When prompted, turn power **OFF** on the ATMs 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.

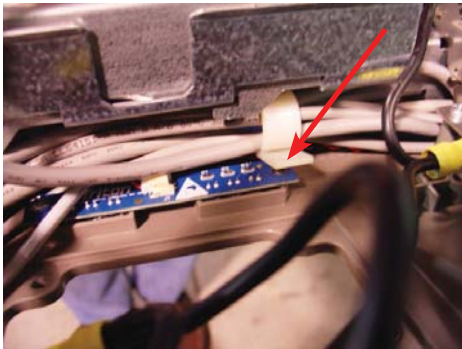
1. Refer to the applicable service manual for your unit for steps to remove and replace the card reader. Remove the outer 4 (four) screws only. Ensure you are holding the card reader as you remove the last screw to avoid dropping it.
2. Ensure the old cables are removed from the old card reader and mother/docking board, and the new cables are connected properly to the new card reader and mother/docking board.
3. Refer to the pictures below for illustrative instructions and routing of any cables.



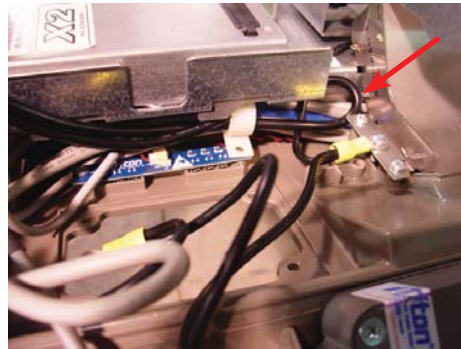
◆Disconnect the card reader to docking board cable. The docking board end has a safety clip.



◆Remove the 4 (four) corner screws retaining the card reader.



◆Under the main board, remove the screw securing the cable clip. Retain the screw.
◆Carefully remove the old card reader to docking board cable.

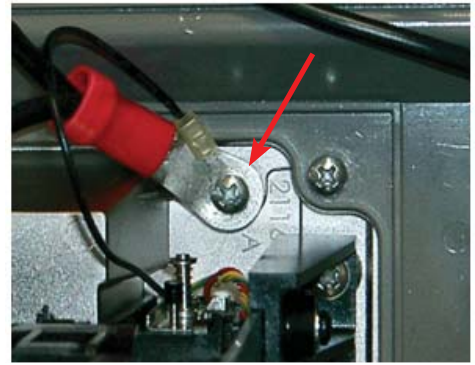


◆Fold the new card reader cable in half and install under the cable clip.
◆Secure the clip with the screw previously removed.

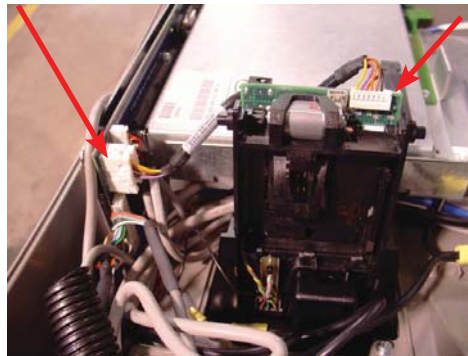
EMV CARD READER UPGRADE PROCEDURES



- ◆ Remove screw retaining ground cables on corner of new EMV card reader.
- ◆ Install card reader as shown and secure with 4 (four) screws provided.



- ◆ Connect card reader ground cables and original cabinet ground in corner of EMV metal bezel with screw.



- ◆ Connect the new card reader cable to the card reader and the mother board.

4. Upon completion of the upgrade, perform the card reader test in the diagnostics area of your service manual, and return the unit to service.