



Terminal and Account User Guide

Verifone VX520 EMV

Merc	hant	#:
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Merchant Name:

Visa/MC Voice Authorization:

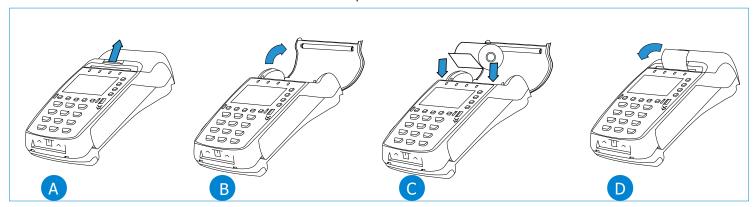
Acumen Help-Desk:

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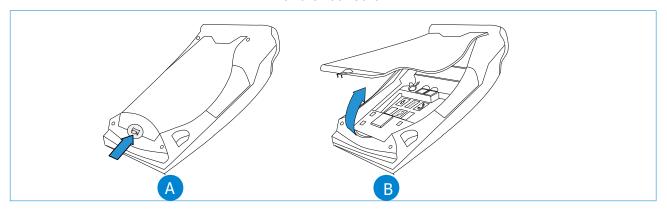
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Installation Guide VX520 Contactless

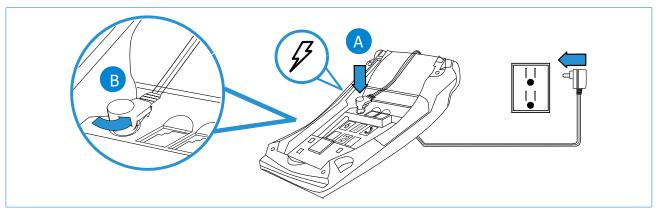
Paper Load



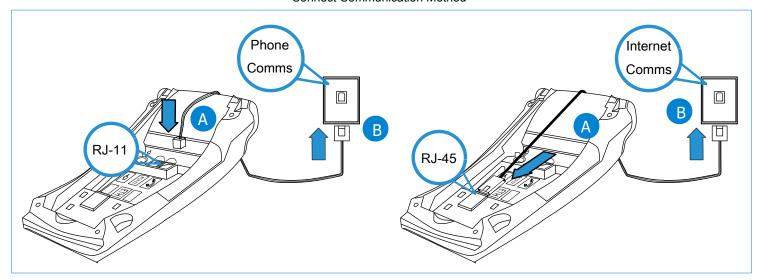
Remove Back Cover



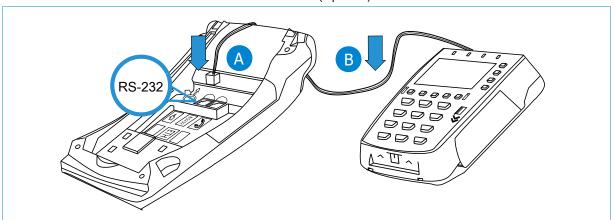
Powering On



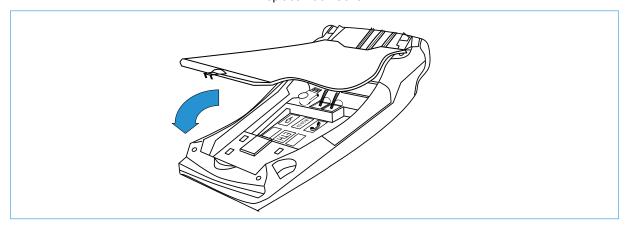
Connect Communication Method



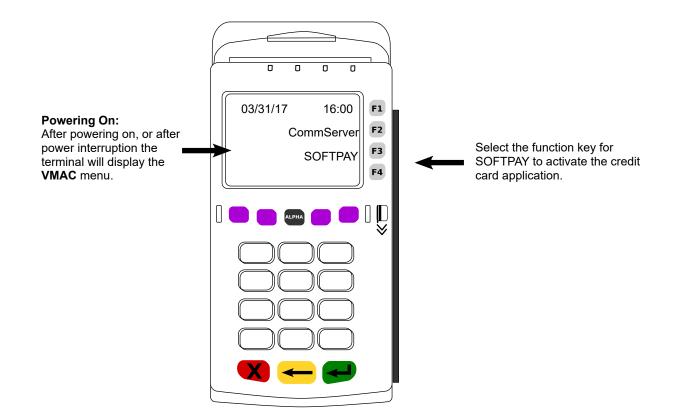
Attach PinPad (Optional)



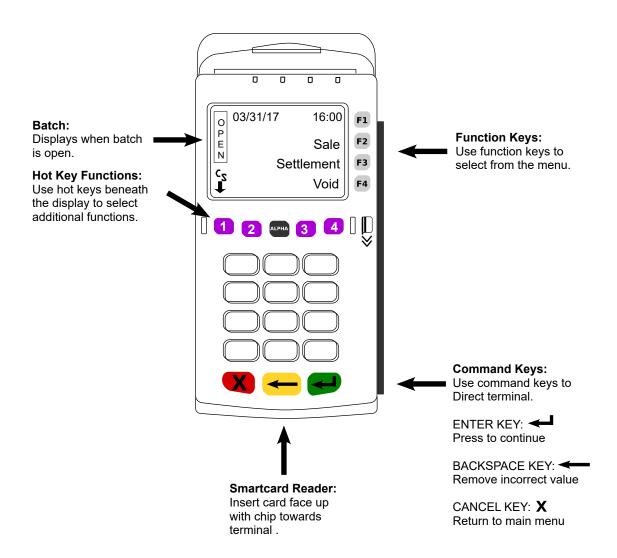
Replace Back Cover



Powering On



Navigating the Terminal



Adding Static IP Address

Press F3 SOFTPAY-PAYT

STOP!



If your POS terminal communication method is internet and you have assigned a Static IP Address, you must enter the address information into the terminal before first use. (Contact your IT support if needed). Press * This column intentionally left blank Press F2 CommServer Press Purple Key under Press F2 IP Press F3 Edit Press F1 Static Press F2 Next Press F3 Edit Type Static IP address (press 1 then Alpha for period) press ENTER Press F2 Next Press F3 Edit Type Subnet Mask (press 1 then Alpha for period) press ENTER Press F2 Next Press F3 Edit Type Gateway IP Add (press 1 then Alpha for period) press ENTER Press F2 Next Press F3 Edit Type DNS1 IP Address (press 1 then Alpha for period) press ENTER Press F2 Next Press F3 Edit Type DNS2 IP Address (press 1 then Alpha for period) press ENTER Press F4 Exit Save Changes? Press F1 Yes Press *

EMV Chip Technology and Contactless Payments

WHAT IS EMV CHIP TECHNOLOGY?

(EMV) Europay, MasterCard, Visa is a global standard for interoperability between chip based payment applications and acceptance terminals for secure credit and debit payments. All EMV cards (smartcards) are the same size and thickness as magstripe cards and are embedded with a micro computer chip that stores information required to authenticate, authorize, and process transactions, increasing security and reducing fraud. When the card is inserted into a POS terminal a metal contact in the reader provides power to the microchip and then both devices are able to communicate.

CONTACT PAYMENTS

Your Verifone terminal supports smartcard contact payments. When a customer presents a smartcard you should initiate a sale and then pass the terminal to the customer (where practical, or if you do not have an attached PIN pad). The customer should insert their card into the chip reader at the bottom of the terminal where it will remain until the transaction is complete. Your terminal will instruct the customer when to remove their card.

CONTACTLESS PAYMENTS

Your Verifone terminal may also support contactless payments. Some customers may present a dual interface card (a card capable of both contact and contactless transactions), a fob, or may want to use their mobile phone to pay. You should initiate a sale and them pass the terminal to the customer, when the contactless symbol is displayed the customer will tap or hold their contactless device above the display, your terminal will process the transaction the same as if a card were inserted. In most cases a separate PIN pad may be attached to your terminal allowing your customers to complete contact or contactless transactions with a customer facing device.

CUSTOMER VERIFICATION METHODS

Depending on the card, customer identity verification is completed with either a customer signature on the receipt or by the customer entering a PIN number. Your terminal will recognize the card and prompt you and the customer to follow the required verification process.

FORGOTTEN PINS

If a customer has forgotten their PIN, instruct them to contact their card-issuing bank to have their PIN reset. You should ask for another payment method to complete the sale.

RESOLVING LOCKED PINS

If the wrong PIN has been entered too many times in a row the PIN will lock and render the card temporarily unusable. Your terminal display will inform you whether the transaction can be completed using a signature or if the customers needs to provide a different method of payment. Instruct the customer to contact their card-issuing bank to unlock the PIN.

MAGNETIC STRIPE CARDS

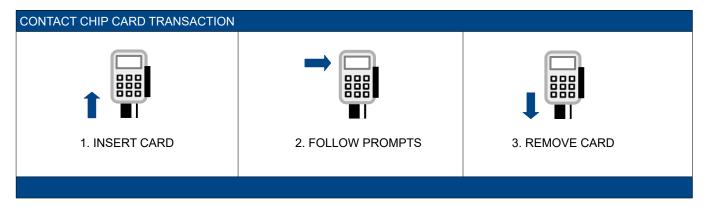
You can continue to accept cards that do not have an embedded micro chip (magnetic stripe only). All smartcards will also be embedded with a magnetic stripe to meet international requirements as well as fall back for some cards where the chip has malfunctioned and a swipe of the card is allowed.

Integrated Contact/Contactless Chip Card Transactions

CONTACT PAYMENTS

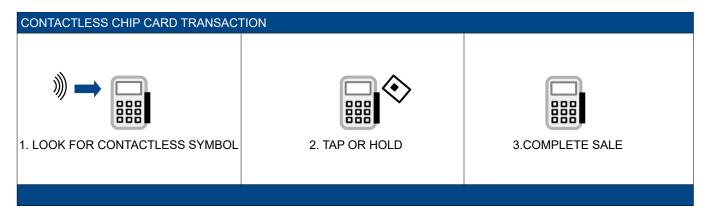
When a customer presents a chip card, you should initiate a sale and then pass or turn the POS terminal to the customer* (if you do not have an external PIN pad). The customer inserts their card into the chip reader at the bottom of the terminal where it should remain until the transaction completes. Your terminal will instruct the customer when to remove their card and return the terminal to you. Follow the prompts to complete the sale. This ensures that the card never leaves the customer's possession.

*Where practical



CONTACTLESS PAYMENTS

When a customer presents a contactless device (card, fob, phone), you should initiate a sale and at the contactless symbol instruct your customer to tap or hold their device next to or above the terminal and follow terminal prompts. In many cases, a separate PIN pad can be attached to your terminal, for customer convenience. As an added security measure, transaction amounts over a pre-set threshold will require a card insert or swipe.





Performing Transactions

CREDIT CARD SALE (CONTACT/CONTACTLESS):

	TERMINAL DISPLAY		OPERATOR ACTION
■ Se	ale ettlement bid		Press F2 Sale
Amount:	\$	0.00	Type Sale Amount Press ENTER
Sale Total:		\$ 0.00	Press ENTER and pass or turn terminal to customer (Where Practical)
Pass Terminal to Customer			OR Press ENTER
Sale \$ Card Entry/Acct #	0.00		Tap or Hold Contactless Card, Fob, Phone OR Insert Card (Swipe if no chip)
Sale Total: \$ 0.0	00	Yes No	Press F1 Yes Press F2 No
TransmittingRe Remove Card	ceiving		Remove Card from Terminal
Sale			Press ENTER
Total: \$ 0.	00		
Return Terminal to Clerk			
Prt Customer Cop	py?	Yes No	Press F1 Yes Press F2 No

DEBIT CARD SALE (CONTACT/CONTACTLESS):

TERMINAL	. DISPLAY	OPERATOR ACTION
Date & Time Sale Settlement Void		Press F2 Sale
Amount:	\$ 0.00	Type Sale Amount Press ENTER
Sale Total: Pass Terminal	\$ 0.00	Press ENTER and pass or turn terminal to customer (Where Practical) OR
to Customer		Press ENTER
Sale \$ 0.00 Card Entry/Acct #:		Tap or Hold Contactless Card, Fob, Phone OR Insert Card (Swipe if no chip)
	VISA / MASTERCARD DEBIT US DEBIT	Press <i>F1</i> for Signature Debit
Sale Total: \$ 0.00	Yes No	Press F1 Yes Press F2 No
TransmittingReceiving Remove Card		Remove Card from Terminal
Sale		Press ENTER
Total: \$ 0.00 Return Terminal to Clerk		
Prt Customer Copy?	Yes No	Press F1 Yes Press F2 No

PIN/SIGNATURE DEBIT CARD SALE (CONTACT/CONTACTLESS):

TERMINAL DISPLAY	OPERATOR ACTION	PIN PAD DISPLAY	CUSTOMER ACTION
Date & Time Sale Settlement Void	Press F2 Sale	WELCOME	No Action
Amount: \$ 0.00	Type Sale Amount Press ENTER	WELCOME	No Action
Sale \$ 0.00 Card Entry/Acct #:	No Action	\$0.00 Insert, Tap or Swipe Card	Customer Inserts Card or Taps Card, Fob, Phone on PIN pad
	No Action	VISA / MASTERCARD DEBIT US DEBIT	Press <i>F1</i> for Signature Press <i>F2</i> for PIN Entry
F1 Signature Selected:	T		
Sale Processing	No Action	DO NOT REMOVE CARD	No Action
Sale Smith/John Total: \$0.00 Please Wait	No Action	REMOVE CARD	Customer Removes Card
Sale Prt Cust Copy	Press F1 Yes Press F2 No	WELCOME	
F2 PIN Selected:			
Sale Smith/John Total: \$0.00 Waiting for PINPAD	No Action	ENTER PIN & OK	Customer Types PIN number, then presses ENTER
Sale Smith/John Total: \$0.00 Please Wait	No Action	REMOVE CARD	Customer Removes Card
Sale Prt Cust Copy	Press F1 Yes Press F2 No	WELCOME	

CREDIT/DEBIT CARD SALE (HAND KEYED):

TERI	MINAL DISPLAY	OPERATOR ACTION
Date & Time Sale Settlemen	t	Press F2
Void		Type Sale Amount Press ENTER
Amount: \$0.00		
Sale		Press ENTER
Total:	\$ 0.00	
Pass Terminal to Customer		
Sale Total: Card Entry/Acct #:	\$ 0.00	Type Card Number Press ENTER
Exp Date (MMYY):		Type Expiration Date Press ENTER
Sale	Yes No	Press F1 Yes Press F2 No
Total:	\$ 0.00	
Sale		Type CVV2 from back of card Press ENTER
Total: V-Code	\$ 0.00	
Sale		Type Street # of Address Only Press ENTER
Total:	\$ 0.00	
Address		
Sale		Type 5 Digit Zip Code Press ENTER
Total:	\$ 0.00	
Zip Code		
TransmittingReceiving Approved XXXXXX		No Action While Processing
Sale Prt Cust Copy?	Yes No	Press F1 Yes Press F2 No

VOID/AUTHORIZATION REVERSAL:

TERMINAL DISPLAY		OPERATOR ACTION
Date & Time Sale Settlement Void		Press F3 Void
Void Void Last Trans?	Yes No	Press <i>F1</i> Yes (to void last transaction) Press <i>F2</i> No (to retrieve by invoice or acct number)
Void Retrieve By:	Inv# Acct#	Press F1 Inv #
Void Invoice Number:		Type Invoice Number Press ENTER
Void Inv #: X VISA Sale XXXX \$ 0.00	Yes No Next	Press F1 Yes Press F2 No Press F3 Next
TransmittingReceiving Approved XXXXXX		No Action While Processing
Void Prt Cust Copy?	Yes No	Press F1 Yes Press F2 No

REPRINT:

	TERMINAL DISPLAY	OPERATOR ACTION
Date & Time	Sale Settlement Void	Press 1
1	Refund Auth Only Force Reprint	Press F3 Reprint
REPRINT Last Receip Any Receipt		Press F2 for Last Receipt Press F3 for Any Receipt (Follow additional prompts for any receipt)

REFUND:

TERMINAL DISPLAY		OPERATOR ACTION
Date & Time Sale Settlement Void		Press 1
Refund Auth Only Force Reprint		Press <i>F1</i> Refund
Refund Amount: \$ 0.00		Type Refund Amount Press ENTER
Sale Total:	\$ 0.00	Press ENTER and pass or turn terminal to customer (Where Practical)
Pass Terminal		OR
to Customer		Press ENTER
Refund \$ 0.00		Tap or Hold Contactless Card, Fob, Phone OR
Card Entry/Acct #:		Insert Card (Swipe if no chip)
		(Follow Additional Prompts if Hand-Keyed)
Sale		Press F1 Yes Press F2 No
Total: \$ 0.00		
Refund Smith/John Total: \$0.00		Remove Card from Terminal
Remove Card		
Sale		Press ENTER
Total: \$ 0.00		
Return Terminal to Clerk		
Refund Yes Prt Cust Copy? No		Press F1 Yes Press F2 No

FORCE: WARNING: Do not use this function without a valid Authorization Code

TERMINAL DISPLAY		OPERATOR ACTION
Date & Time Sale Settlement Void	F	Press 1
Refund Auth Only Force Reprint	F	Press F3 Force
Force Amount: \$ 0.00	-	Type Sale Amount Press ENTER
Force Total:	\$ 0.00	Press ENTER
Pass Terminal to Customer		
Force \$ 0.00 Card Entry/Acct #:	-	Type Card Number Press ENTER
Force ExpDate (MMYY):	-	Type Expiration Date Press ENTER
Force Total: \$ 0.00		Press F1 Yes Press F2 No
Force	-	Type Bank Issued Authorization Code Press ENTER
Total:		
Appr Code:		
Force Yes Prt Cust Copy? No		Press F1 Yes Press F2 No

BATCH REVIEW:

	TERMINAL DISPLAY	OPERATOR ACTION
Date & Time	Sale Settlement Void	Press 4 Reports
REPORTS	Totals Report Detail Report Clerk Reports	Press 1
1	Batch Review Batch History Terminal Rpts EMV Parms	Press <i>F1</i> Batch Review
BATCH REVI	EW Totals Review Detail Review	Press <i>F2</i> Totals Review Press <i>F3</i> Detail Review

REPORTS:

TERMINAL DISPLAY	OPERATOR ACTION
Date & Time Sale Settlement Void	Press 4 Reports
REPORTS Totals Report Detail Report Clerk Reports	Press <i>F1</i> Totals Report Press <i>F2</i> Detail Report Press <i>F3</i> Clerk Reports

SETTLEMENT: (END OF DAY)

TERMINAL DISPLAY	OPERATOR ACTION
Date & Time Sale Settlement Void	Press F3 Settlement
Settlement Sales: \$ 0.00 Refunds: \$ 0.00 Total: \$ 0.00 Enter to Confirm	Press ENTER
Settlement Response OK XXX XXX XXXX Settle Successful Settlement Report Prints	No Action Required

Additional Transaction Prompts

Some transactions may require additional information to complete.

Access Tip Functions	Press 2 to access TIPS. Press the corresponding <i>F</i> key to retrieve the transaction and follow the prompts.
Corporate /Business Card Functions	Commercial/Purchase cards may require you to enter sales tax/customer number. The total amount of your transaction should include tax. When prompted Tax Exempt Yes or No, select No (unless the sale is tax exempt). Enter the sales tax amount. The receipt will print the item amount and sales tax amount separately. If prompted for customer number and the cardholder does not have a number for you to enter, use MM/YY.
Changing the Date & Time	Press the more key twice, press <i>F3</i> Other Setup. Type the password 1AA66831 [A=Alpha Key]. Press the more key twice, press <i>F2</i> Date/Time and follow the prompts.

Multi-Merchant Functionality

When more than one merchant is programmed into your terminal, you must select the appropriate merchant before initiating the transaction.

Clerk/Server Setup

Accessible through the main menu, the clerk/server setup feature allows you to manage ID's and passwords

TERMINAL DISPLAY	OPERATOR ACTION			
Date & Time Sale Settlement Void				
1 = Merchant Name	Scroll to your merchant name by using the <i>F</i> keys to the right of the display and press <i>F3</i> to select or press [ENTER]			
Add Clerk/Server	Use this function to add new clerks or servers to your terminal. You will be prompted to create an ID and a password for each new clerk/server. The clerk/server ID may be up to four digits in length and the password may be 5-10 digits in length.			
Log On/Off Clerk Server	Use this function to log on clerks/servers as their shifts begin, and log them off at the end of their shift.			
Delete Clerk/Server	Use this function to remove a single clerk/server from the terminal.			
Modify Clerk/Server	This function allows modification of a cash tip amount or a clerk/server's password.			
Clear Clerk/Server	This function is used to clear clerk/server cash totals from the clerk/server's internal totals file.			

Merchant Responsibilities:

Print a report or perform a batch review to verify the transactions in your terminal or software. Close your batch daily to ensure you are charged the lowest interchange rates and your funds will deposit in a timely manner. Merchants using telephone touch-tone capture **do not** have to manually close the batch.

Insert, tap or swipe all cards. If your terminal cannot read a card, **you must** imprint the card on a manual imprinter call for a voice authorization and have the cardholder sign the imprinted draft.

- 1. Maintain a manual imprinter, merchant plate and a supply of sales drafts. This is your backup system.
- Do not accept a credit card before its valid from date, or after its expiration date, on the card. Do not accept a credit card that is not signed.
- Maintain your terminal and printer to insure legible sales draft receipts. Keep copies of credit card receipts, for a minimum of 18 months. Store receipts in a secure location.
- 4. If you are using point of sale software, you must have the latest updates installed to secure card data. If connected to the internet you must maintain a firewall between your POS software and the internet.
- 5. Do not store the 3-digit security code (V-Code) with the card number and expiration date.
- 6. Respond within 7 days to all retrieval requests for a copy of a sales draft.
- 7. Call your voice authorization number and ask for a "code 10" if you are suspicious of a card or cardholder.
- 8. Authorizations are good for 7 days only. If you have not submitted authorized transactions within 7 days you must re-authorize.
- If you wish to close your merchant account you must submit a closure letter with the name of your business, your merchant number, a brief closure statement and it must be signed by the principal who opened the account.

Inform Acumen of any of the following:

- 1. Checking account changes
- 2. Address change
- 3. Ownership or Incorporation changes
- 4. Telephone or internet system changes
- 5. If you process transactions through a payment gateway other than Acumen, you must inform them separately of any checking account changes.

Transaction Holds:

Your merchant account has an established high monthly volume and high ticket amount. If you process a transaction in excess of the high ticket amount the transaction may be held by the processor. We will notify you within 24 hours of any holds and request additional information about the transaction including but not limited to:

- 1. Customer invoice (showing service or product)
- 2. Cardholder contact information including telephone number
- 3. Merchant bank statement (summary pages only)

To satisfy our banks risk mitigation, you must supply the requested information in order for the transaction to be released.

Alternate Authorization:

Should your terminal or software at any time become inoperable, or if the authorization network is unavailable, follow the steps below to continue accepting credit/debit cards for payment.

- Should your terminal become inoperable, you must call the Voice Authorization Center to obtain authorization for a
 transaction. If the card is present, you must make an imprint of the card using your manual imprinter. When your
 terminal is repaired or replaced you will need to capture your voice-authorized transactions, by following the Force
 or Offline procedure listed in this user guide.
- Should your software become inoperable, you must call the Voice Authorization Center to obtain authorization for a transaction. Please consult your software manual to capture a voice-authorized transaction in your software. If the card is present, you must make an imprint of the card using your manual imprinter.

These steps are necessary for your protection, and your ability to continue to accept credit cards for payment. You must have and maintain.

- 1. An Imprinter
- 2. Sales drafts
- 3. Proper merchant plate for your imprinter

If you do not have any of these please contact the Help-Desk number located on the cover of this user guide.

First View Setup: (Access your merchant statement online)

To access your Merchant Statement, Authorization, Settlement, and Chargeback reports for your merchant account, you must complete setup of the First View online reporting tool. Please follow the below instructions for access to First View.

- 1. Go to www.firstview.net
- 2. Enter the User Name for your account
- 3. Enter the Password
- 4. Select Login

You will be prompted to enter user setup information including a new user name, password and security questions. Once complete you will no longer use the below information to login to your First View account.

USERNAME	PASSWORD			

Payment Card Industry Data Security Standards - PCI DSS (What it means to you)

By keeping your systems secure your customers can trust you with their sensitive payment card information. When you stay compliant with the payment brands security standards you join the global response to fighting payment card data compromise. Merchants are highly encouraged to visit www.pcisecuritystandards.org to obtain the latest Requirements and Security Assessment Procedures.

Acumen Connections has partnered with Security Metrics a leading provider of PCI DSS audit and scanning services. After approval and setup of your merchant account, you will receive an email from Security Metrics, select the embedded link and establish a password for your account. Follow the prompts to complete your audit, SAQ and if necessary a network scan. After successfully validating your compliance you can download a copy of your Attestation of Compliance (AOC) for your records. Validating your compliance must be performed once a year and you will receive an email notification from Security Metrics when your due date is near.

Please contact us if you need assistance with completing validation.

Tips to Avoid Chargebacks:

What is a retrieval request?

A retrieval request comes from a cardholder or their bank, requesting to see a copy of a sales draft or a mail order form. This can be done for a variety of reasons ranging from verifying a sale to tax purposes and sometimes fraud reasons. Failure to supply a draft promptly could result in a chargeback.

What is a chargeback?

A chargeback is the reversal of a sales transaction previously processed by your business. The amount of the previous transaction is deducted from your account. Chargebacks are usually initiated by your customer (the cardholder), but can also be initiated by the bank that issued their card. While some chargebacks cannot be prevented, the basic steps below prevent some of the most common errors and help you avoid chargebacks when possible.

TIPS FOR ALL MERCHANTS

- If you receive a "decline" or "do not honor" message through your terminal, software or telephone touch-tone capture, <u>DO NOT</u> proceed with the transaction. <u>DO NOT</u> try again for an authorization; there is no protection for a transaction after you have received a "decline" or "do not honor" message, even if you receive an approval code on a second attempt.
- 2. Position company logo or marketing messages away from the transaction information. A company name, logo, or marketing message printed across the face of the sales draft can make the image copies illegible.
- 3. Always use high quality white non-patterned thermal paper for transaction information, since colored or patterned paper can render an imaged document illegible.
- 4. Always provide documentation in original size format. Avoid reducing images, as this will result in illegible images.
- 5. Check readability of all printed receipts and/or sales drafts daily.
- Handle thermal paper carefully as any pressure during the handling/storage process causes black blotches, making copies illegible. Extreme heat or cold will degrade the paper.
- 7. Change printer paper when colored streak first appears as this indicates the end of the roll. The streak diminishes the legibility of transaction information.
- 8. Save all receipts and/or sales drafts for 18 months. Do not receipts or store sales drafts by cardholder name. You will be required to locate the receipt or sales draft by card number and approximate transaction date only. We will not be able to give you the cardholders name because cardholder names are not provided to us.
- 9. If you receive a call center or pick up card or "hold call" message through your terminal, call the authorization center and follow their instructions.
- 10. Do not attempt to process transactions for any persons or businesses other than the approved merchant. This is a violation of United States Code and may subject you to criminal prosecution.
- 11. Please refer to your Merchant Application and Agreement for your highest ticket limit. If you have a transaction greater than this limit please contact us for instructions before you attempt to process it.

TIPS FOR FACE-TO-FACE TRANSACTIONS (RETAIL)

- 1. Whenever possible, obtain a swipe of the card through the terminal; verify that the card number on the terminal matches the card number embossed on the card.
- 2. If you manually key in the card number to your terminal, you <u>MUST</u> manually imprint the card using an imprinter with your correct merchant plate. Non-embossed cards <u>MUST</u> be swiped, do not manually key.
- 3. **NEVER** accept an expired card. Check valid to and from dates.
- 4. Compare the signature on the sales draft to the signature on the back of the card. The card must be signed. If the card is not signed, return it to the customer, have them sign it and request to see their identification. If the signature on the back of the card, does not match the sales draft or identification, <u>DO NOT</u> continue with the sale. If the customer refuses to sign the card, <u>DO NOT</u> continue with the sale.
- 5. Obtain an authorization for the full amount of the sale (hotels may authorize within 15% of total, restaurants/beauty salons within 20%). It a settled amount exceeds the allowed percentage, you must void the original transaction and reauthorize for the new purchase total.

- If you limit the return or exchange of merchandise your return policies must be clearly indicated on the printed receipt or sales draft near the cardholder signature area or in an area easily seen by the cardholder. Please contact us for instructions.
- Compare the four digits of the embossed account number to the four digits printed below the embossed account number
 to determine they are the same numbers in the same sequence. The first four numbers should always match, if not <u>DO</u>
 <u>NOT</u> complete the transaction and notify the authorization center.
- 8. If the transaction is a cash advance, record the four printed digits on the cash disbursement slip in the space provided
- 9. Always inspect the card. Keep the card throughout the transaction. Inspect the name, expiration date, and signature on back. **Never** accept a card that appears to have been altered.

TIPS FOR MAIL/PHONE/E-COMMERCE TRANSACTIONS

All Mail/Phone/E-Commerce transactions are considered high risk because the card and cardholder are not present. The following suggestions are offered to assist you in an attempt to prevent chargebacks to your account. However, we are not always able to prevent chargebacks affiliated with doing business in Mail/Phone/E-Commerce environments.

REQUIRED INFORMATION ON EVERY MAIL/PHONE/E-COMMERCE receipt or sales draft:

- The last four digits of the card number and expiration date
- The name that appears on the front of the credit card
- The cardholders billing address and phone number
- Description of merchandise and/or services rendered
- ADDRESS VERIFICATION SERVICE (AVS) is available on all terminals. AVS will verify the cardholders billing address
 with the cardholders credit card issuer. If you do not get an <u>EXACT MATCH</u> do not proceed with the transaction.
- 2. Ship product or merchandise, only to the cardholders billing address. <u>NEVER</u> ship to any other address that the customer may request.
 - Request certified signature for proof of delivery
 - AVS will only verify addresses within the United States
- 3. Provide cardholder name and merchant contact details in the sales transaction data.
- 4. CVV2/CVC/CID otherwise known as the V-Code is the 3-digit code located on/after the signature panel following the last four digits of the card number. This code helps to verify that the cardholder is in possession of the card. It does not provide protection against chargebacks but does provide an additional level of security.
- 5. Clearly link credits/refunds you have issued with the original sale information. Include invoice number, settlement information, etc.
- Ask Acumen to include your customer service telephone number in the billing name that appears on your customer's credit card statement. This allows your customers the ability to contact you directly if they have questions regarding the sale.



Address Verification System (AVS) Response Codes:

The Address Verification System (AVS) is a feature that adds fraud protection on card-not-present transactions. The numeric portion of the customer's street address and the ZIP code are compared against the information on file with the card-issuing bank.

Code	Description	Visa	MC	Amex	Disc
x	Match-Address and 9-digit Zip Code	×	✓	*	✓
Y	Match - Address and ZIP code (for Discover, address only matches)	√	✓	✓	✓
A	Partial - Address matches, ZIP code does not (for Discover, both address and ZIP match)	✓	✓	✓	√
w	Partial - 9-digit ZIP code matches, address does not (for Discover, no data from issuer)	×	✓	×	√
z	Partial - ZIP code matches, address does not	✓	✓	✓	✓
N	No match - Neither address nor ZIP code match	✓	√	√	√
U	Unavailable - AVS system unavailable or issuer does not support AVS	√	✓	√	√
R	Retry - Issuer's system unavailable or timed out	✓	✓	✓	×
S	Not supported - AVS not supported by issuer at this time	✓	✓	✓	×

Acumen Connections Equipment Terms:

Approval of your merchant account constitutes your acceptance to the terms and conditions set forth in this document.

Alterations/Replacement of Equipment Owned and Provided by Acumen

- Upon request, you must allow Acumen Connections reasonable access to the premises where POS terminals, and or printers are or will be located.
- · Only Acumen Connections can alter or modify POS terminals or other equipment owned by us.
- If a terminal or printer appears to be defective, you must contact the help-desk immediately.
- You are responsible for safeguarding POS terminals or other equipment from loss, damage, or theft.
- If necessary, replacement equipment will be sent to you. If you fail to return the defective equipment, you will be
 responsible for its replacement value and for any legal and/or collection costs incurred by us in connection with
 recovering the equipment.
- You are responsible for keeping all Acumen Connections owned equipment from claims, liens, and legal processes initiated by creditors.
- Equipment may not be subleased at any time. The cost of comparable new equipment, as well as any associated legal
 and/or collection costs incurred by Acumen Connections will be assessed to you for each piece of equipment not
 returned to us upon termination of the Merchant Agreement by either party, or upon our request for the return of the
 equipment for any reason.

Replacement of Merchant Owned Equipment

- Purchased and leased equipment is under warranty for 1-year from date of purchase, or manufactures warranty
 whichever is longer. (Applies only to equipment purchased from Acumen Connections). You must pay the cost of repair
 if not under warranty.
- If equipment is submitted for repair Acumen Connections will provide you with comparable equipment at a monthly rental fee. Acumen Connections assumes no liability for repair or shipping of equipment.
- Rental fees will be discontinued upon return of rental equipment to us.
- Rental equipment must be shipped to us by traceable delivery. Equipment not sent traceable, and lost in transit will be billed to you at retail value.