PVS21 SQUARE CAGE + KIOSK

Master Manual





TABLE OF CONTENTS

INTRODUCTION	
Model and Serial Number Information	2
Important Safety Instructions	
General Safety Rules	4
Storing and Handling Propane Cylinders Properly	
Safety Decals	5
SYSTEM SPECIFICATIONS	
Propane Vending System Details	6
Cage Numbering	7
INSTALLATION	
Arrival	
Grounding Instructions	
Propane Vending System Installation	
Kiosk to Cage Mechanical Cable Installation	
Reset Cage Position	
Cage Door Sensor Cable Adjustment	
Cage Tank Sensor Cable Adjustment	21
Door Latch Cable Adjustment	23
OPERATING INSTRUCTIONS	
How to Exchange a Propane Tank	
Refilling the Propane Vending System/Advancing Carrier	27
CABLE TROUBLESHOOTING	
CAGE TROUBLESHOOTING	
TOKEN TROUBLESHOOTING	
KIOSK TROUBLESHOOTING	
Kiosk Sensors	
Cell Modem	
KIOSK TROUBLESHOOTING	
Kiosk Indicators	38
Network Cord Connections	
COMPONENTS	
Kiosk Electrical	30
Kiosk Console & Sensor Bank	40
Actuator Assembly	41
PVS Cage	42
PVS Door	
WARRANTY & LIABILITY	
Vidir Machine Inc. Warranty Agreement and Limitation of Liability	54



INTRODUCTION

Congratulations on the installation of your Propane Vending System. This machine has been carefully designed and constructed to provide you with many years of dependable service.

To ensure yourself of the utmost value and performance from your machine, please read this manual carefully to be sure that your machine is operated correctly. Be thorough when going through the instructions so that you are aware of the exact operation of all controls and procedures prior to employing the machine.

This manual provides you with operation, troubleshooting, and maintenance procedures for your machine. However, if help is needed or if any of these procedures are unclear, please do not hesitate to contact Vidir at 1-800-210-0141.

Model and Serial Number Information

Locate and record the model and serial number in the space provided. Please have this information available when calling for service, warranty or any other information.

Model No
Serial No. (Machine)
Serial No. (Kiosk)

IMPORTANT CAUTION NOTICE:

Vidir has made every effort to protect operators and others from injury due to mechanical parts movement and electrical safety. As with any mechanical device, the operator is responsible to inspect the condition of the machine prior to use and adhere to safe operating procedures at all times.

Information in this document contains is proprietary, confidential, and property of Vidir Machine Inc. Disclosure or duplication of this material is prohibited except by authorization of Vidir Machine Inc.

service@vidir.com

Head Office U.S. Office Vidir Machine Inc. Vidir Inc. Box 700 19 East Lehman St. Arborg, Manitoba Lebanon, PA Canada ROC 0A0 17046 USA Service: 1-866-821-2647 Service: 1-866-821-2647 Toll Free: 1-800-210-0141 Toll Free: 1-866-898-4347 Phone: 1-204-364-2442 Phone: 1-717-270-1000 Fax: 1-204-364-2454 Fax: 1-717-270-1001 Service Fax: 1-204-364-3072 Installation: 1-204-641-1222





<u>SAFETY</u>

Important Safety Instructions

Read this manual carefully to ensure familiarity with the controls and the proper use of the equipment.

The warnings and precautions contained in this manual **<u>DO NOT</u>** cover all potential dangers, and hazards that may be encountered.

This manual is intended to provide basic safety guidelines for proper operation, maintenance, and servicing of the machine.

WARNING – Risk of injury

- No smoking around the propane vending system.
- Installation and service of this machine should be performed by qualified service personnel.

- Only properly trained service personnel should have access to the interior components of the machine.

- Electrical connections should be performed by qualified electricians.

DANGER – To reduce the risk of electrical shock:

- Keep cord away from heated surfaces or areas where it can be easily damaged.

- Do not change current limit ratings of overload protectors. For further instruction please contact our service line.

- Turn all switches to the off position and disconnect power to the machine before cleaning, maintenance, or repairs.

- Risk of electrical shock – Connect this machine to a properly grounded outlet only. See ground-ing instructions.

Use this machine only for its intended purpose as described by these instructions.

Do not use attachments not recommended or approved by the manufacturer.

Never operate this machine if it has been damaged, has a damaged electrical cord, or if it is not working properly.

For further instruction please contact our service line.



<u>SAFETY</u>

General Safety Rules

- 1. Never smoke while handling a propane cylinder.
- 2. When transporting or storing disconnected cylinders, plug or cap all cylinder outlets.
- 3. Store cylinders outdoors, and off the ground on a base that will not burn.

Storing and Handling Propane Cylinders Properly

- 1. Read this manual carefully and ensure that you are familiar with the controls and the proper use of the equipment.
- 2. Keep the area of operation clear of all potential hazards.
- 3. No smoking around the propane vending system.
- 4. Always shut off the main power switch before servicing the system (if applicable).



<u>SAFETY</u>	
Safety Decals	Description
	NFPA Safety Decal
	Blue 2: Intense or continued non-chronic exposure may result in incapaci- tation or residual injury.
4	Red 4: Will rapidly or completely vaporize at normal pressure and tempera- ture, or is readily dispersed in air and will burn readily.
	Yellow 0: Normally stable, even under fire exposure conditions, and are not reactive with water.
	White Special Hazards: This section is used to denote special hazards. There are no special hazards for propane.
	Vidir Part: 110-0128
	Flammable Gas.
1075 2	Vidir Part: 110-0127
	No Smoking/Flammable Gas
NO SMOKING / FLAMMABLE GAS	No smoking within 25ft (7.6m) of propane cage.
	Vidir Part: 110-0144
	This conduit contains no electric current.
NO ELECTRIC CURRENT	Vidir Part: 110-0278
PROPANE	Propane letters are seen from a distance to inform customers of what is enclosed inside.



SYSTEM SPECIFICATIONS

Propane Vending System Details

Model / Capacity	21 Tank with Kiosk	
Option	Kiosk	
Approx Cage & Kiosk Dimensions (w x d x h)	43.7" (1110mm) 70" (700mm) 70" (700mm) 59.1" (1500mm) 59.1" (1500mm) (1500mm) (1500mm)	
Electrical Requirements	North America - 110V, 1PH, 15A Australia - 240V, 1PH, 10A	
Printer paper	Paper Width: 2.28" to 2.36" (58-60mm)	
	Paper Weight: 50 to 60 grams/meter ² Paper Capacity: 4" (100 mm roll)	
Light bulb	Wagner Lighting: Product number 152	
Gasket	Inspect gasket on kiosk annually to ensure it is not drying and cracking	
Vent / Fan Filters	Inspect filters twice a year (more in dusty environment)	
	Filter: Vidir Part# 406-0057 (quantity 3)	



SYSTEM SPECIFICATIONS

Cage Numbering

Cages will always be referred to incrementally from left to right. The left most cage being "Cage 1". Location of the kiosk does not affect cage numbering rule.











Arrival

Contact the store manager to inform them you're there to install the propane vending machine.

ASK THEM:

1) To provide a forklift to unload the unit and set it in place.

2) Verify placement of the unit, and location of electrical outlets.

If any of the above items are not available, please contact your account manager before proceeding. Your account manager will advise you with additional instructions.

Grounding Instructions

The machine should have a dedicated circuit.

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the product is properly grounded.

Do not modify the plug provided with the product. If it will not fit the outlet, have a proper outlet installed by a qualified electrician or service person.

This product must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the product.



Propane Vending System Installation

Step 1 Check with store manager if the kiosk is to be placed to the left or the right of the cage. Unload machine, placing the kiosk in front of the power outlets, 24" from the wall at the base of the kiosk.



This will allow the door of the kiosk to open and provide access for additional hook-ups inside the kiosk. Level and anchor the kiosk in place using 1/2" anchor bolts.





Propane Vending System Installation (con`t)

Step 2 Place and level the propane cage 5' to the left or right of the kiosk and 2" - 4" from the wall. Extend the control cables and conduit in a straight line from the kiosk to the propane cage. Anchor conduit cover in place using the 1/2" wedge anchors provided.



If anchor bolts are required for the propane cage, use 1 wedge anchor (1/2" size) per cage footpad.



Kiosk to Cage Mechanical Cable Installation

The end of the cable that goes into the cage has rubber bellows on it to keep moisture out.



#35 connector links for sensor bank cables

vertical storage solutions

Service: 1-866-821-2647 • Office: 1-800-210-0141 • www.storevertical.com Page 11

Kiosk to Cage Mechanical Cable Installation (con`t)

Install plastic grommet to conduit end.



Thread 3 mechanical cables into kiosk port.



Pull cables through kiosk port hole.





Kiosk to Cage Mechanical Cable Installation (con`t)

Slide all 3 cables through the conduit lock nut.



Note: conduit lockring has a concave shape when installed correctly into the conduit threading.



Secure the conduit lockring.





Kiosk to Cage Mechanical Cable Installation (con`t)

Thread the longest of the cables above the sensor bank. These are the actuator cables.



Install #35 connector link to the door cable loop, and actuator arm.





Service: 1-866-821-2647 • Office: 1-800-210-0141 • www.storevertical.com Page 14

Reset Cage Position

When using the service card, the service technician <u>MUST NOTE</u> which cage, and which position in the cage the PVS is vending from.

Please perform the following procedure to ensure the PVS will continue to vend correctly from where it was positioned before service began.

Swipe service card.



Kiosk display will show `processing`. Kiosk display will show current cage the PVS is vending from. All cage doors will pop open.



Fully open cage door.



INSTALLATION Reset Cage Position (con`t)

As cage door is fully opened, the carrier will advance 1 tank position towards towards the right. Please note this exact tank position. This tank position must be stationed 1 position to the left, after cage servicing is completed.



Perform desired service or maintenance duties on PVS cage.



Unlock the cage forwarding handle. Remove lock from handle



Reset Cage Position (con`t)

Move cage forwarding handle into release position.



Rotate carrier to the right until the noted tank is 1 position to the left.







Reset Cage Position (con`t)

Close cage forwarding handle attempt to turn carrier to ensure cage is locked in position. Secure with padlock. Double check cage rotation is locked.



Resetting of cage position complete.



INSTALLATION Cage Door Sensor Cable Adjustment

Cage Door Sensor Cable Aujustment

Make sure to follow cage reset position procedure on page 15

(All cable adjustments should be made in kiosk first. If additional adjustment is needed, cables may be adjusted at cage door with latch cover removed).

Swipe service card.



Kiosk display will show `processing`. Kiosk display will show current cage the PVS is vending from. All cage doors will pop open.

For each cage installation, open cage door completely.

Slowly close PVS cage door until 1 click is heard from the door latch. This is 1st latch position of the cage door.



At the kiosk sensor bank, ensure a 1/32 - 1/16" gap between door sensor arm, and sensor bank.



1/32 - 1/16" gap



Cage Door Sensor Cable Adjustment (con't)

Adjust door sensor cable as necessary to achieve correct gap.



Cable adjustment nuts for all kiosk door/sensor cables. <u>DO NOT OVERTIGHTEN</u>

Close door completely.

Verify door sensor indicator is not active (no light).

Retest cage door at 1st latch position 3 times to verify correct cable adjustment.

Readjust door sensor cable as necessary.



Cage Tank Sensor Cable Adjustment

Make sure to follow cage reset position procedure on page 21

(All cable adjustments should be made in kiosk first. If additional adjustment is needed, cables may be adjusted at cage door with latch cover removed).

Swipe service card.



Kiosk display will show `processing`. Kiosk display will show current cage the PVS is vending from. All cage doors will pop open.

For each installation, open cage door completely.

Test tank sensor cable tension by pressing inward on the tank sensor.



There should be no play in the sensor cable tension. Resistance should be felt immediately from the tank sensor finger. Sensor finger should always push out, and not stay stuck down.





bank.

Cage Tank Sensor Cable Adjustment (con't)

Adjust tank sensor cable tension as necessary to achieve correct gap.



Cable adjustment nuts for all kiosk door/sensor cables. DO NOT OVERTIGHTEN

Close all PVS cage doors completely.

Note: When closing the PVS cage door (and a tank is present in the cage slot), the tank sensor will now press on the tank, and move the tank sensor finger inward. This will pull on the sensor cable at the kiosk, and sensor at the sensor bank will be active (no light).



Tank pushes on sensor finger; sensor pulls cable; cable pulls sensor arm at kiosk; sensor indicator inactive



INSTALLATION Door Latch Cable Adjustment

Make sure to follow cage reset position procedure on page 15

All cable adjustments should be made in kiosk first. If additional adjustment is needed, cables may be adjusted at cage door with latch cover removed. Do not overtighten. PVS cage door must be completely closed.

Ensure a 1/32 - 1/16" slack between cable loop, and the connecting link (no tension should be present on the cable when the cage door is closed).

Adjust cable tension as necessary.



Swipe service card to verify cage door pops open.



Step 3 Install the printer paper in the printer.

Loading of Paper

Please only use paper of the recommended quality. Thermal paper with other specifications or poorer quality may reduce the service life of the thermal printhead considerably and will invalidate the printer's warranty.



- Pull the protective sheathing from the paper roll and cut the paper end at right angles to the direction of feed as far as possible. Truncated, lacerated or folded paper edges can produce a paper jam during automatic insertion. Also perforations of the paper web or rounded edges are not acceptable.
- Lay the paper roll into the paper tray as shown in the illustration. The thermal sensitive paper surface must be situated outside or on top.
- Insert the paper into the printer mechanism. As soon as the sensor in the paper guide detects paper, the controller starts the automatic paper insertion.
- Cut off the paper appearing in the eject chute by pulling it straight out.
- Step 4 Once the display shows the pricing, insert "Fill Card" to test that the unit is operating. Once the cage door is open, proceed to fill the cage with propane tanks. Once cage is full, firmly close cage door. The PVS system will take a few minutes to reset itself, and begin normal operation. If kiosk-to-cage cables need adjustment, please see appropriate chapter.
- Step 5 Clean up area around machine of any debris.
- Step 6 Call the manager() and demonstrate the operation of the machine. Ensure the Quality Installation form is signed and return it to Vidir Machine Inc.

Once completed, make sure the Kiosk padlock, emergency access panel lock, and secondary door lock are all secured. Give the lock keys and fill cards to the manager and have them sign the delivery acceptance form. (Note: All locks are keyed the same.)



VIDIR PVS21 - Kiosk Installation Checklist

Company		City	Province	
Store No.	Serial No.		Model/Type	
Date of Service:	Time In	Time Out	Total Tim	ne
PVS Installation				✓ Installed
Inspected PVS cage and	kiosk for any shipping da	amage. (Record in comme	nts)	
PVS cage and kiosk have	e been placed on a flat, so	olid surface and carefully l	eveled.	
Door operates correctly	(tested using the FILL CA	NRD).		
Note: Door will not re	eopen unless card is swip	oed.		
Opened cage door and	rotated unit with handle.	(1 full revolution)		
Conduit strain relief fast	ened to kiosk.			
All safety labels are visib	ile.			
PVS cage and kiosk have been cleaned and surrounding area. (dust from drill)				
All doors are locked and secure. (2 Locks)				
Left the key and cards with the store manager so they can access all locks.				
The conduit has been routed and fastened properly.				
The tank sensor has been adjusted correctly.				
Training				
Demonstrated how to re	emove a tank.			
Explained basic trouble	shooting to store manag	e		
1) How to reboot the unit.				
2) How to install printer paper.				

Service Company:	Store Signoff:(Print)	
Service Technician (Print):	Store Title:	
Service Tech Signature:	Store Signature:	
Comments and Parts Used (If any):		

OPERATING INSTRUCTIONS

How to Exchange a Propane Tank

PVS21 with Kiosk:

1. Insert credit card fully, remove promptly.



2. Open door completely and remove tank from fully visible slot.



3. Place your empty tank into the same slot, if exchanging.



4. Close door completely to complete purchase.





OPERATING INSTRUCTIONS

Refilling the Propane Vending System/Advancing Carrier

- 1. Obtain fill card to access the cage.
- 2. Insert fill card, the cage door(s) will pop and the Propane System will disable to allow you to fill the cage(s).
- 3. Unlock the forwarding handle and pull the handle out to advance the carrier.



- 4. Turn the carrier to fill the cage.
- 5. BE SURE to return the handle fully into the machine and lock BEFORE closing the door. Make sure lock has engaged to prevent the cage from turning before closing door.
- 6. Close the door completely once the cage has been filled. Repeats steps 3,4,5 for additional cages. The propane vending system will reset for customer use once all cage doors have been completely closed.
- 7. The fill card resets the PVS system to full.



For cage door sensor cable adjustment see "Cage Door Sensor Cable Adjustment" on page 19.

For cage tanks sensor cable adjustment see "Cage Tank Sensor Cable Adjustment" on page 21

For cage door latch cable adjustment see "Door Latch Cable Adjustment" on page 23



Symptoms/Problems	Cause	Solution
Cannot close door.	Door not open completely. Door latch has fallen closed.	Please see below.

Solution

1. Open the door all the way and then try to close it. Note: the door will not close until it has been opened all the way.



2. Door latch is closed and needs to be reopened. Manually open the latch by using the key in the lock on the front of the door.

3. Door latch receiver rod requires adjusting. Loosen Door Latch Bolt and move it out slightly. (Bending it too far towards the front of the cage will cause door ratchet system to jam by not permitting it to flip, thereby preventing the door from opening.)

4. Latch may be stuck open. Check that actuator is not stuck down or lubricate latch.

5. Call service to report problems.



Symptoms/Problems	Cause	Solution
Door doesn't open.	Credit card not processing.	Please see below.
	Door latch cable too loose.	
	Door hinges do not move freely.	

Solution

- 1. Check for door damage.
- 2. Close the door completely and try again.

3. Tighten the cable that unlatches the door. (Take care not to over-tighten as this may snap the cable during operation.) Adjust cable in the kiosk first. Adjust cable in the door, last.



4 Latch may be sticking or ratchet toggle did not flip. Firmly press the door closed and this may flip the toggle and release the latch. Check if latch mechanism requires lubrication.

5. Actuator fault. Check actuator located in the payment kiosk that is related to the cage in question. (Please note that cage #1 is always the left most cage) If actuator is not working, it will not pull the cable that unlatches the door. Actuator can be tested by swiping the service card or by reversing the 2 wires to the actuator.

6. Check to ensure that the actuator pin hasn't fallen out.

7. Call service to report problems.



Symptoms/Problems	Cause	Solution
Door will not unlatch.	Credit card not processing; actua- tor failure.	1. Rattle the door to free up a sticky latch.
	Door cable too loose.	 Check door actuator. Adjust door latch cable.
Cage door sounds like the door will open but does not.	Actuator fails to pull cable.	1. Check to ensure that the actua- tor pin hasn't fallen out.
		2. Check for cable damage and/or tighten door latch cable slightly.
Door is jammed open half way and carriers are jammed.	Propane cylinder has fallen from carrier shelf.	 Check for and/or remove a jammed tank.
		2. Close the door all the way and try again.
Door all the way open and will not close.	Door not open completely.	1. Adjust the door hinge ratchet ¹ / ₄ turn.
Door will not close completely.	Door latch has fallen shut.	 Check if door latch is closed. Swipe service card and imme- diately close door.
Door will open and close with out latching.	Actuator stuck on down position.	 Check that actuator is not stuck down. Adjust door hinge ratchet. Lubricate door latch. Lubricate door latch cables.



Symptoms/Problems	Cause	Solution
Card will not work.	Card reader error. Card reader requires cleaning.	 Check the card reader using a laptop. Connect the card reader to the laptop and using word pad you can swipe the card to determine the error.
Carrier will not advance.	Forwarding finger not in position.	 Do not force carrier. Check for a jammed tank. Call service to report problems.
The door unlatches but will not open all the way.	Jammed propane cylinder.	 Check to ensure that nothing is jammed or obstructing move- ment in the machine. Lock finger may not have released during last cycle. See image "Top of Cage Door" on page 42, item 1. Use a little more force, door may be sticky. Adjust door hinge ratchet



TOKEN TROUBLESHOOTING

Symptoms/Problems	Cause	Solution
Token acceptor does not retract.	Token latch not pushed in com- pletely. Faulty token latch.	 Ensure that the door is completely closed, push hard on the door a few times. Rattle the door a few times. Push token latch in all the way. Pull token latch back (might be jammed with a coin).
Cannot close door completely.	Partially open cage door. Door latch fallen closed.	1. Door latch is closed and needs to be reopened, using a token.
Door remains locked when push- ing token in.	Cage door out of adjustment.	1. Check for damage on the door.
Door will not unlatch.	Token latch not pushed in com- pletely. Cage door out of adjustment.	1. Ensure that you have pushed token latch far enough to unlatch the door.



Kiosk Sensors

Each Kiosk can have up to 4 cages.

Door Closed, door sensor "Off" - no indicator light

Door Open or door at 1st latch position, door sensors "On"- indicator light on

No Exchange Tank - tank sensor "On"- indicator light on

Exchange Tank Present - Tank Sensor "Off" - no indicator light





Cell Modem

Indicator Lights

When your Raven XE is connected to power and an antenna, there is a specific pattern to the lights to indicate its operation mode.



Figure 4-5: Raven XE Indicator lights

- **Network** Indicates a successful connection to the cellular network with an IP address given and a channel acquired.
- **Signal** Light shows the strength of the signal and may be nearly solid (strong signal) or flashing (weaker signal). A slow flash indicates a very weak signal.

RSSI/Signal LED Status	Ranges of RSSI (dBm)
On Solid	Equal to or stronger than -69
Fast Blink	-70 to -79
Normal blink	-80 to -89
Slow Blink	-90 to -99
Extinguished	Equal to or weaker than -100

RSSI LED Ranges

• Activity - Lights will flash as data is transferred to and from the Raven XE on the remote network.



Cell Modem

- **Power** Indicates the power adapter is connected and there is power getting to the Raven XE.
- The **Reset button** (on the left side of the Raven XE) has two functions. If it is quickly depressed and released, the modern will simply power cycle the internal hardware. If, however, the reset is depressed and held for several seconds (count approximately 30 seconds, and wait for the power light to go off after the light pattern stops), the ALEOS configuration settings will return to the factory defaults.

Caution: If you reset the modem configuration using the reset button, you may need to reconfigure your APN.

Light Patterns

The LEDs on the front of the modem will respond in different patterns to indicate modem states.

- Normal Each LED, mentioned above, is lit as applicable.
- Start up The LEDs will cycle from left to right.
- **Configuration Reset** The LEDs will cycle left to right and then right to left 4 times.
- **Authentication Failure** The Network, Signal, and Activity LEDs blink every 2 seconds.
- Data Retry The Network, Signal, and Activity LEDs blink every 3 seconds.



Symptoms/Problems	Cause	Solution
Kiosk charges full price on ex- change tank.	Tank sensors require adjustment.	 Check tanks sensor adjustment. Customer transaction took too long (2 min. max.).
	Cage door was open over 2 min- ute time limit,	 Ensure tank lever on door moves freely. Lubricate sensor cables.
Kiosk does not process a credit card.	Kiosk out of service. Customer credit card invalid.	 Ensure unit is displaying the prices. Re-boot Kiosk.* Check credit card type. Check with fill card.
Kiosk display shows "EMPTY".	All propane cylinders have been sold.	 Re-fill cage. Swipe fill card. Re-boot the Kiosk.*
Kiosk screen is blank.	Power is off at kiosk. Display is faulty	 Re-boot the Kiosk.* Swipe the fill card and re-boot the Kiosk. Check connections on display wires.
Kiosk is selling empty tanks.	Fill card was swiped without refilling cage.	1. Re-fill cage with full tanks.
Kiosk night light off.	Kiosk power is off. Faulty bulb.	 Replace light bulb. Check connections on light bulb.
Printer will not feed paper.	No paper in printer. Wrong paper.	 Load printer paper. Re-boot the kiosk.*. Remove paper jam. Re-cut paper end square and reinsert.
Printer feeds paper but will not print.	Wrong paper type.	 Install paper correct side up (see label on printer). Re-boot the Kiosk.*

*Re-boot the Kiosk - turn-off the kiosk power bar, wait 2 minutes turn-on the power bar.



Kiosk Indicators

- 1. Light active on the Power Bar: If no light, check cord and outlet. Check power bar switch. Power bar, will be plugged into a GFI and may need resetting.
- 2. Red Light Flashing on Printer: Indicates 24v power on. If off check 24v power supply.
- 3. Green Light on Card Reader: indicates 5v.
- 4. 24v Power Supply Green Light active.
- 5. Kiosk Display: no message will be displayed during reboot/machine power-up. During operation, the display will show either current pricing, empty cage, or out of service error message.
- 6. Top (printed circuit board): steady flashing red light....normal operation (this light may also be off during normal operation).
- 7. Computer (printed Circuit) Board (Back Board): Flashing Red Light on when rebooting...Normal

Network Cord Connections



Com port (A)	Ethernet comm cable for viper	400-0101
Com port 2	Card Reader Serial Cable only	412-0008
Com port 3	Display Noritake with Cable (VFD)	402-0085
Com port 4	Printer Hecon C-56 Serial with cable	412-0003



Kiosk Electrical



ltem #	Description	Part No.
1	Power Supply 24V 4Amp	406-0047
2	Ethernet comm cable for Viper computer board	400-0101
3	Card reader serial cable	412-0008
4	Serial cable for Viper computer board	400-0099
5	AIM 104 relay board	400-0111
6	Titan computer board (located underneath AIM relay board)	400-0114
7	Relay base	409-0022
8	Relay - 24V DC	409-0021
9	Titan computer board input-output ribbon cable	400-0112
10	Thermostat	406-0051



Service: 1-866-821-2647 • Office: 1-800-210-0141 • www.storevertical.com Page 39

Kiosk Console & Sensor Bank





ltem #	Description	Part No.
1	Light Enclosure 12 VDC	410-0139
2	Light Bulb 24 VDC	406-0058
3	Display Noritake with Cable (VFD)	402-0085
4	Printer Hecon C-56 Serial with cable	412-0002
5	Card Reader (Serial)	412-0007
6	Proximity Switch	410-0113
7	Threaded Conduit Fitting	111-1123
8	Sensor Bank lever v01	2-70578
9	Spring ext072 X 5/8 x 3-1/4	119-0082
10	Sensor Bank v01	2-70579
Not Shown	Kiosk air exchange fan 230 VAC Australia	406-0089
Not Shown	Kiosk air exchange fan 120 VAC	406-0052
Not Shown	Fan dust filter (3pk)	406-0057



Actuator Assembly





ltem #	Description	Part No.
1	Linear actuator 24vdc 1" strk	406-0100
2	Actuator u mount	2-70747
3	Bushing bronze 3/8x1/2x1/4	007-0063
4	Pvs21 lever push rod asm (includes 007-0063 & 001-0088)	2-70748
5	1/4 X 1 1/2 hex bolt full thread gr5 unc	001-0088
6	1/4 X 1 1/2 hex bolt full thread gr5 unc	001-0088
7	1/4 Nylon lock nut gr5 unc	004-0042
8	SHCS shoulder 3/8 x 5/8 x 5/16	001-0409
9	1/4 X 1/2 hex bolt full thread gr5 unc	001-0267



PVS Cage



ltem #	Description	Part No.
1	3 Level pvs21 carrier asm	2-69079
2	Carrier washer tvs	2-56758
3	Bottom bushing tvs	2-56753
4	SS base center plate pvs	2-69546



ltem #	Description	Part No.
1	One way ratchet finger	2-69973
2	Hinge ratchet pvs21 one way	2-70300
3	Ext. Spring .022 X 1/4x1	119-0065
4	Ratchet finger spring rod tvs	2-56802



PVS Cage



ltem #	Description	Part No.
1	5/16 X 3/4 hex bolt full thread gr5 unc	001-0099
2	Ratchet arm weld tvs21	2-60760
3	Forwarding finger shaft tvs	2-56779
4	Forwarding finger weld tvs	2-56780
5	Pvs_2_rtcht_fngr spring	119-0055



ltem #	Description	Part No.
1	FOOT WELD TVS	2-56844



PVS Cage



ltem #	Description	Part No.
1	Cage forwarding handle	2-56841
2	Lock release linkage tvs	2-56840
3	Clevis pin 3/8 x 1	113-0090
4	Lock disengager inverted	2-70159
5	Top axle weld tvs	2-56771
6	Lock arm weld tvs21	2-60753
7	Lock finger weld tvs	2-56790
8	Pin clevis 7/16 x 1-3/4	113-0077
9	Lock release rodpipe weld tvs	2-56793
10	Top axle bushing tvs	2-56783

ltem #	Description	Part No.
11	Lock arm cover weld v01	2-70858

PVS Door

ltem #	Description	Part No.
1	Door handle v01 pvs21	2-70782
2	Latch cover v01 pvs	2-70815
3	Door latch mount weld v01 pvs	2-70797
4	Sq tank snr rod	2-70530
5	Door latch cover v01	2-70824
6	Sq tank sensor finger	2-70529
7	Plastic cable grommet	2-63110

PVS Door

ltem #	Description	Part No.
1	Eberhard latch rotary	111-1228
2	Door sensor finger asm v01	2-70819
3	Manual override flat	2-65316
4	Door lock connector	2-67506
5	Allegis lock 2 position	111-1218
6	Conduit swage 2 x 1.5	111-1123
7	5/16 Flange nut gr5 unc	004-0014
8	Sensor cable pull brkt rnd	2-70527
9	Tank sensor wheel	2-70305
10	Shcs shoulder 3/8 x 5/8 x 5/16	001-0409
11	1/4 X 2 hex bolt gr5 unc	001-0089

This page is left intentionally blank.

WARRANTY & LIABILITY

Vidir Machine Inc. Warranty Agreement and Limitation of Liability

- 1. Vidir Machine Inc. ("Vidir") warrants solely that the equipment shall be free from any defect due to faulty workmanship or material deficiency at the time of delivery to the buyer thereof (the "Buyer") and for a period of one year therefrom.
- 2. All work except minor repairs or adjustments to the equipment furnished on an emergency basis, will be performed during regular working hours. If the Buyer requests that repair work be performed outside of regular working hours, it is the responsibility of the Buyer to pay the difference between regular and premium labour rates at the then standard hourly billing rate.
- 3. This warranty shall be voided by any modifications to the equipment or any use of the equipment for any purpose other than that for which it was specifically intended.
- 4. This warranty is the only warranty made by Vidir. The Buyer hereby expressly waives any obligations or liability, including liability for loss or damages due directly or indirectly, any obligations including, without limitation, loss of use, revenue, or profit, shipping and handling, and injury to person or property.
- 5. It is the responsibility of Buyer to know, understand and comply with the work and safety laws and regulations in effect and governing Buyer's use of the equipment. To the extent governing law requires inspections, records keeping and/ or after-purchase modifications to the equipment, it is the responsibility of the Buyer to arrange for and comply with such requirements and any associated costs are the sole responsibility of the Buyer. Vidir assumes no responsibility or liability for Buyer's performance under or compliance with such laws and regulations.
- 6. If the equipment is found by the Buyer to be defective, the Buyer must notify Vidir within a period of 30 days of discovery of the defect.
- 7. The Buyer is expected to provide access to all equipment covered by this warranty. Vidir shall not be responsible for any expense incurred in removing, replacing, or refinishing any part of the building structure necessary for the performance of Vidir's obligations under this warranty.
- 8. In the event that any alterations, additions, adjustments or repairs are made by others without Vidir's prior written consent, Vidir may, at its option, immediately terminate this warranty by providing written notice to the Buyer.
- 9. In the event Vidir is required to make emergency calls, repairs and/or replacements under this warranty occasioned by the Buyer or any user's negligence, improper operation or misuse of the equipment or by fire, explosion, flooding, the elements, strikes, labour troubles, vandalism, riots or civil commotion, or by any cause beyond Vidir's control. The Buyer shall reimburse Vidir for such emergency calls, repairs and/or replacements in accordance with the then current rates for such services.
- 10. Vidir's liability for injury to persons or property shall, in any event, be limited to that caused directly by its negligence. Vidir shall not be liable, however, on any account, for any damage or loss to the Buyer or its dealers, representatives, affiliates or agents resulting from business interruption, inconvenience, loss of profits, or special or, indirect or consequential damage. Vidir shall not be deemed to guarantee or warrant the continuing operation or operating efficiency of the equipment covered, nor shall Vidir be liable for any breakdowns thereof or for any damage to any other property of the Buyer not covered by this warranty but resulting from any breakdowns in or operating mishaps of the equipment covered.
- 11. Should any payment due by the Buyer become thirty days or more delinquent, Vidir may terminate this warranty by written notice, and all moneys owed Vidir shall be immediately payable on demand.
- 12. This warranty is not transferable or assignable by the Buyer.
- 13. Vidir reserves the right to determine, in its sole and absolute discretion the best means and methods to be employed for any corrective or repair work deemed necessary by Vidir pursuant to this warranty.

