



Introduction

Purpose

This manual provides instructions for installing a Server and additional hardware components in the Islander™ PLUS system using the FiPay™ application. This Islander PLUS system is connected to the T-Chek™ network for card verification

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Required Tools

Following tools are required for installing the FiPay Server and additional hardware components in the Islander PLUS system:

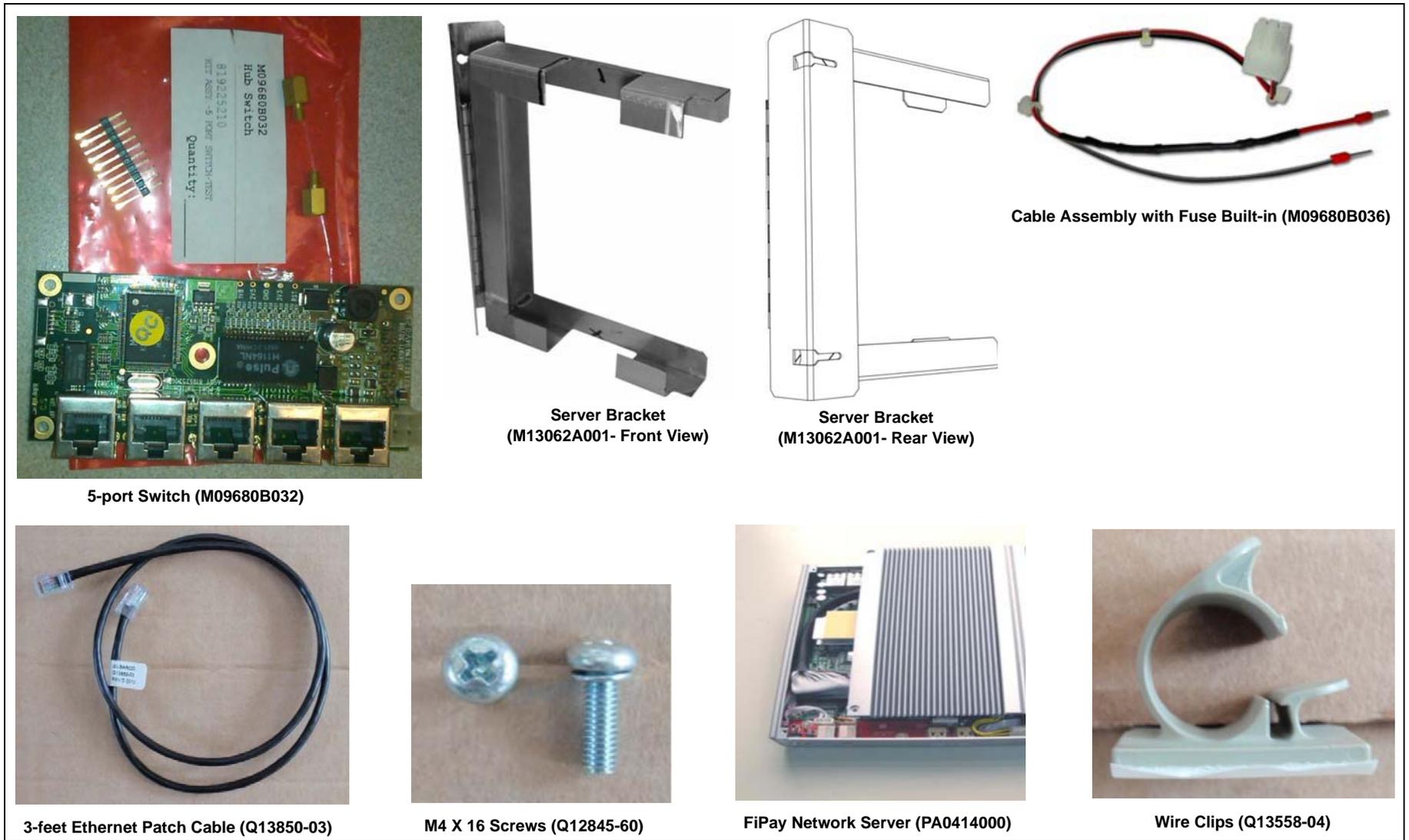
- Islander PLUS for 8-hose Mechanical Pumps (PA093400801)
- Wire Stripers/Cutters
- Electrical Tape
- # 2 Phillips® Head Screwdriver with 8-10-inch Blade
- 9/32-inch Nut Driver

Parts List

Following table lists the parts included in the M13062K001 Kit for installing the FiPay Server and additional hardware components in the Islander PLUS system.

Item	Description	Part Number	Quantity
1	5-port Switch	M09680B032	1
2	Wiring Harness with Fuse	M09680B036	1
3	3-feet Ethernet® Patch Cable	Q13850-03	3
4	FiPay Network Server	PA0414000	1
5	Server Bracket	M13062A001	1
6	Wire Clips	Q13558-04	4
7	M4 X 16 Phillips Head Screws	Q12845-60	2
8	FiPay Server Retrofit Kit for 8-hose Islander Installation Guide	MDE-5045	1

Figure 1: M13062K001 Kit Parts



5-port Switch (M09680B032)

Server Bracket
(M13062A001- Front View)

Server Bracket
(M13062A001- Rear View)

Cable Assembly with Fuse Built-in (M09680B036)

3-foot Ethernet Patch Cable (Q13850-03)

M4 X 16 Screws (Q12845-60)

FiPay Network Server (PA0414000)

Wire Clips (Q13558-04)

Related Documents

Document Number	Title	GOLD Library
MDE-4255	Gasboy® Warranty Policy Statement for USA and Canada	<ul style="list-style-type: none"> • Gasboy Safety and Warranty Docs • Gasboy Policy Documents
MDE-4811	Islander PLUS and ICR PLUS Installation Manual	Gasboy Fleet PLUS System
MDE-4813	CFN® PLUS Installation Manual	Gasboy Fleet PLUS System
MDE-4817	SiteOmat In-House Station Controller Setup and Maintenance Manual	Gasboy Fleet PLUS System
MDE-4818	SiteOmat In House Station Controller Users Manual	Gasboy Fleet PLUS System

Abbreviations and Acronyms

Term	Description
LAN	Local Area Network
OrCU	Orpak™ Controller Unit
PCB	Printed Circuit Board
SSL	Secure Socket Layer
WAN	Wide Area Network

Warranty

For information on warranty, refer to MDE-4255 Gasboy Warranty Policy Statement for USA and Canada. If you have any warranty-related questions, contact Gasboy's Warranty Department at its Greensboro location.

Important Safety Information

Notes: 1) Save this Important Safety Information section in a readily accessible location.

2) Although DEF is non-flammable, Diesel is flammable. Therefore, for DEF cabinets that are attached to Diesel dispensers, follow all the notes in this section that pertain to flammable fuels.

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

⚠ WARNING

 The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.

 You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gasboy equipment.

Evacuating, Barricading and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)

Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call a Gasboy Authorized Service Contractor or call the Gasboy Service Center at 1-800-444-5529. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 70; National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

Replacement Parts

Use only genuine Gasboy replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gasboy replacement parts could create a safety hazard and violate local regulations.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury or damage to the equipment:



DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.



WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

CAUTION without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage.

Working With Fuels and Electrical Energy

Prevent Explosions and Fires

Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

DEF is non-flammable. Therefore, explosion and fire safety warnings do not apply to DEF lines.

No Open Fire



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.

No Sparks - No Smoking



Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.

In an Emergency

Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

WARNING



Gasoline/DEF ingested may cause unconsciousness and burns to internal organs. Do not induce vomiting. Keep airway open. Oxygen may be needed at scene. Seek medical advice immediately.

WARNING

DEF generates ammonia gas at higher temperatures. When opening enclosed panels, allow the unit to air out to avoid breathing vapors. If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs. Keep airway open. Seek medical advice immediately.

WARNING



Gasoline/DEF spilled in eyes may cause burns to eye tissue. Irrigate eyes with water for approximately 15 minutes. Seek medical advice immediately.

WARNING



Gasoline spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

WARNING

DEF is mildly corrosive. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and safety showers are close to the work location. Seek medical advice recommended treatment if DEF spills into eyes.

IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

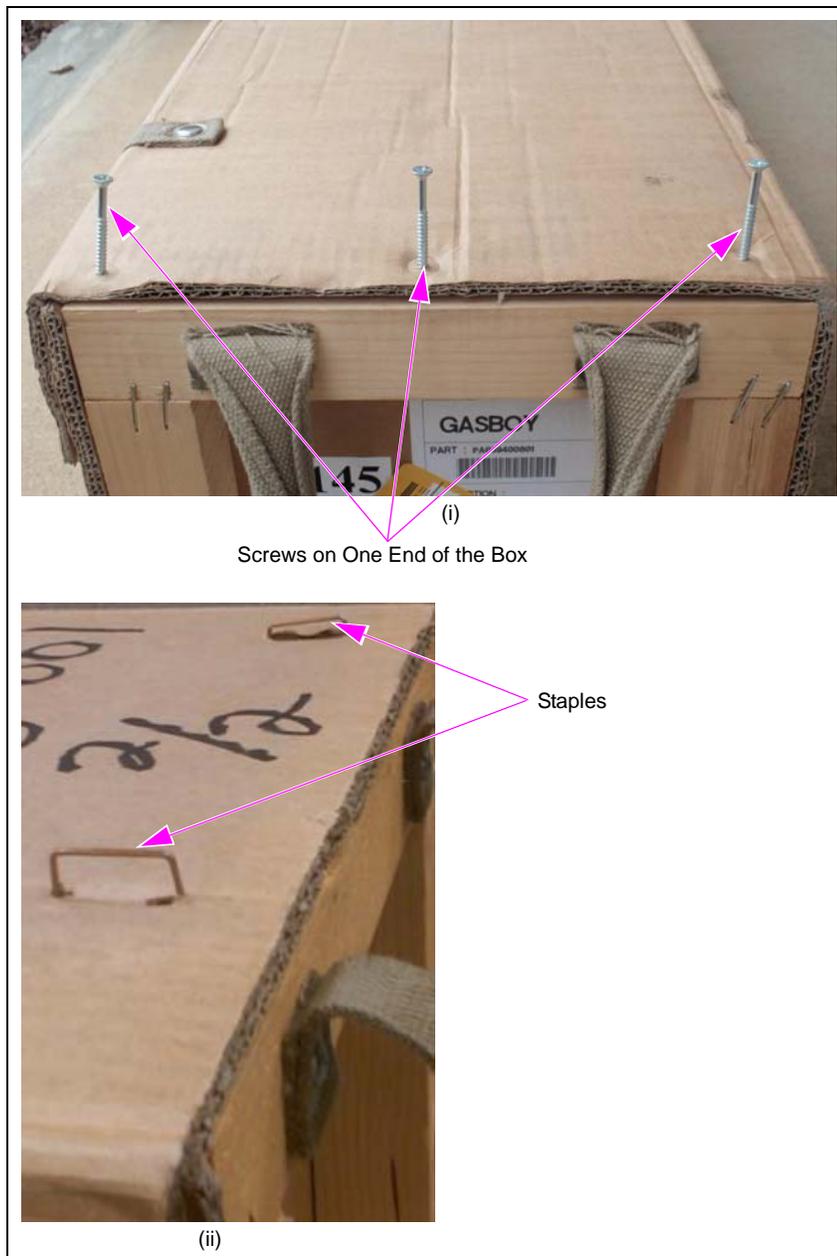
Installing the FiPay Server and Additional Hardware Components in the 8-hose Islander PLUS System

Preparing to Install the M13062K001 Kit

Before you begin installing the FiPay Server and additional hardware components in the 8-hose Islander PLUS system, proceed as follows:

- 1 Remove the screws/staples from both ends of the box (see [Figure 2](#)).
Note: Some boxes will be stapled.

Figure 2: Removing the Screws/Staples



- 2 Remove the screws/staples from both sides of the box (see [Figure 3](#)).

Figure 3: Removing the Screws/Staples



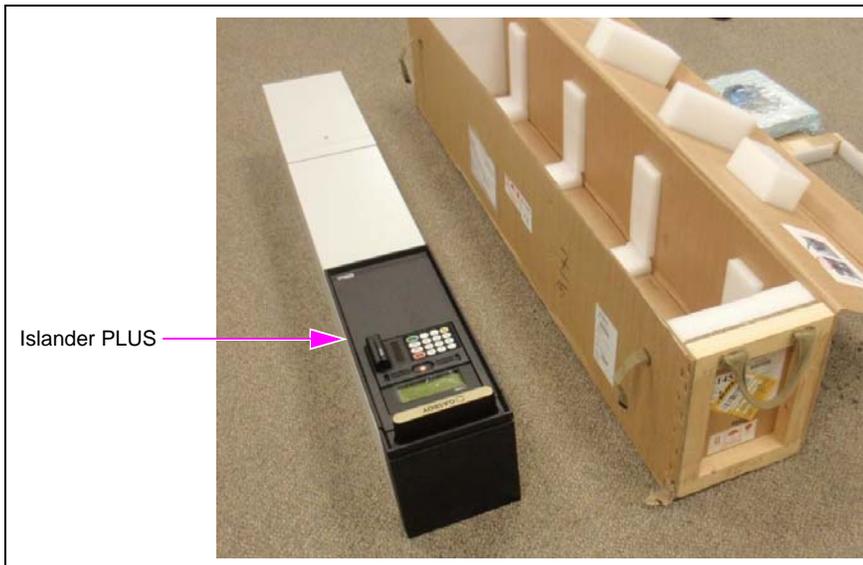
- Carefully remove the wooden brace from the box (see [Figure 4](#)).

Figure 4: Removing the Wooden Brace



- Remove the Islander PLUS from the box and place on a stable flat surface (see [Figure 5](#)).

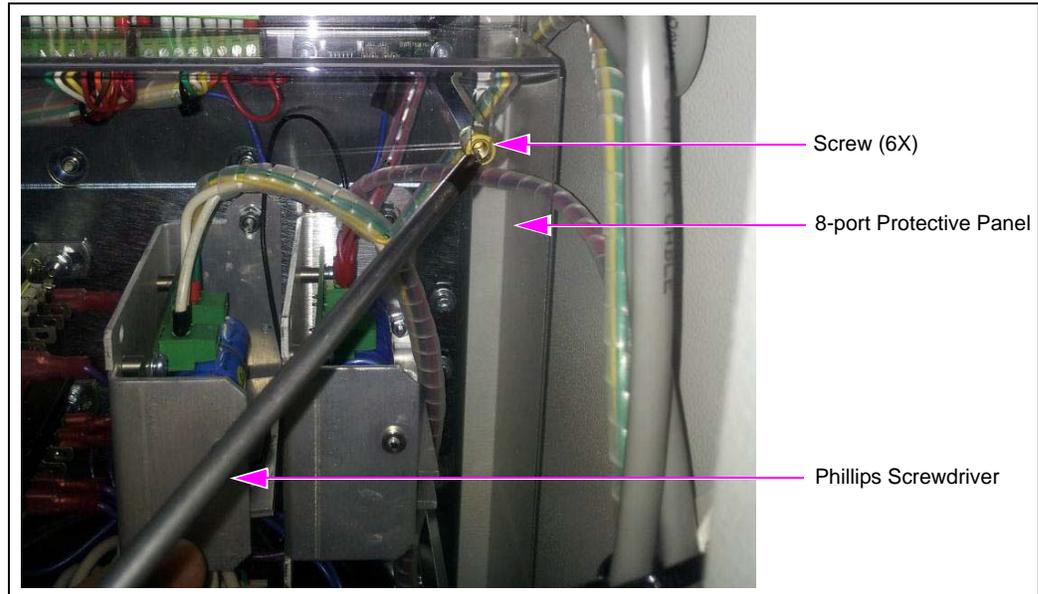
Figure 5: Islander PLUS



Installing the 5-port Switch

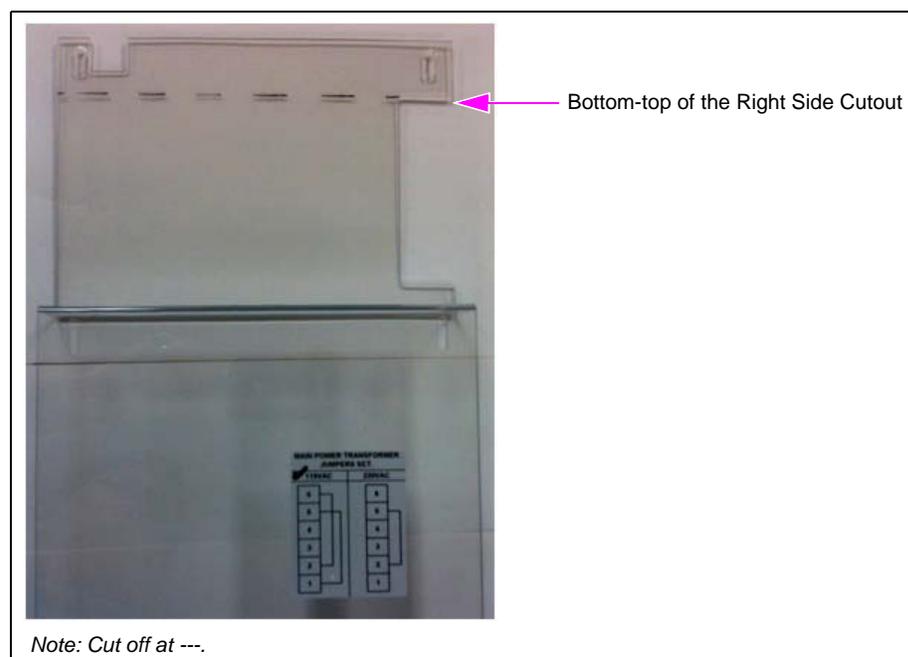
- 5 Remove the 8-port Protective Panel by removing the six screws using Phillips screwdriver (see [Figure 6](#)).

Figure 6: Removing the 8-port Protective Panel



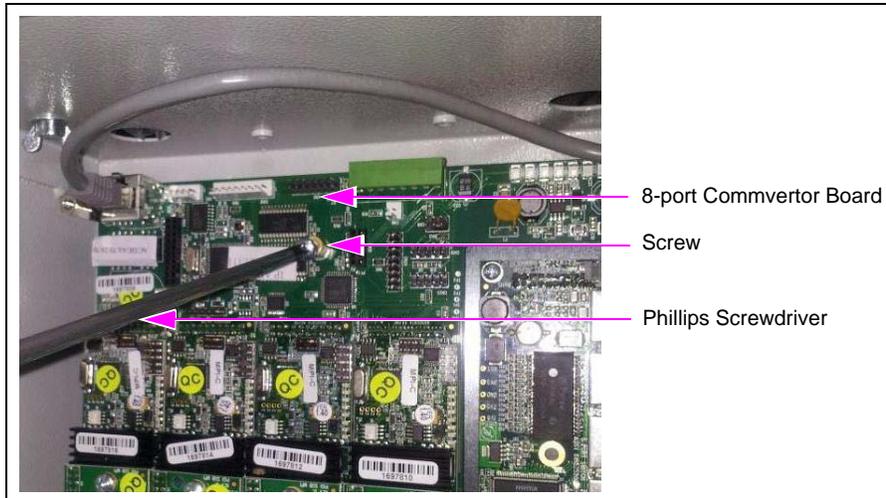
- 6 Lay the protective cover on a flat surface using a straight edge mark from the bottom-top of the right side (see [Figure 7](#)). After marking the protective cover as shown in [Figure 7](#), cut off the top using the marks as guide.

Figure 7: Placing the Protective Cover



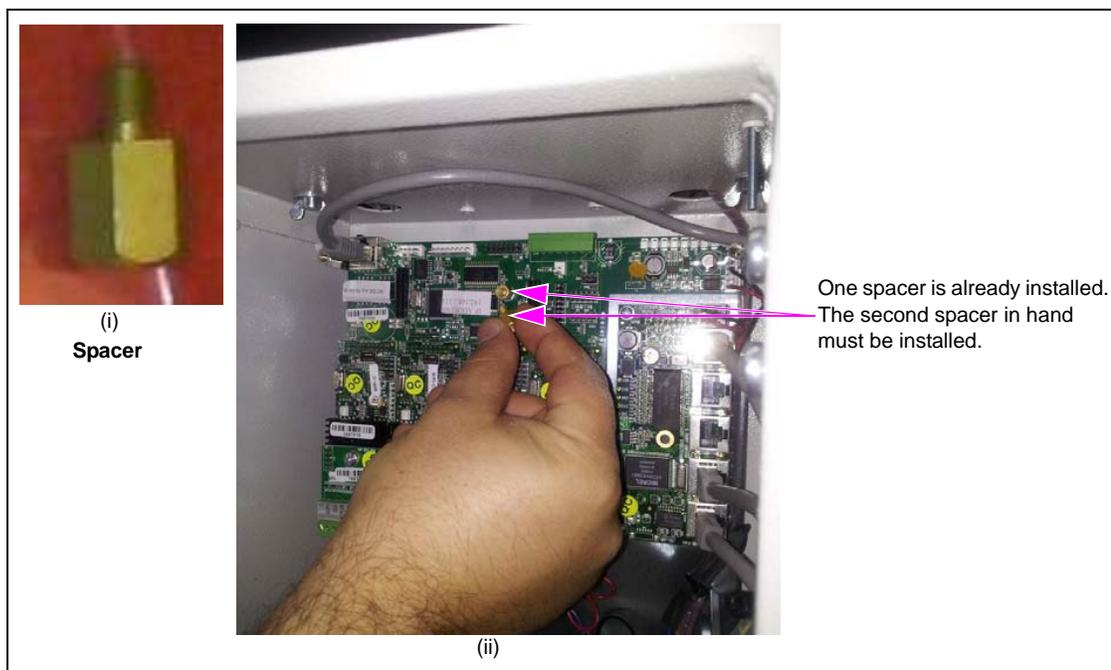
- 7 Remove the screw on top of the 8-port Commvertor Board using Phillips screwdriver (see [Figure 8](#)).

Figure 8: Removing the Screw



- 8 Install the spacer provided in the M09680B032 Kit. The kit includes two spacers for cases where the on-board spacer is missing. The washer is required only if both spacers are used. *Note: Spacers are NOT required if already installed.*

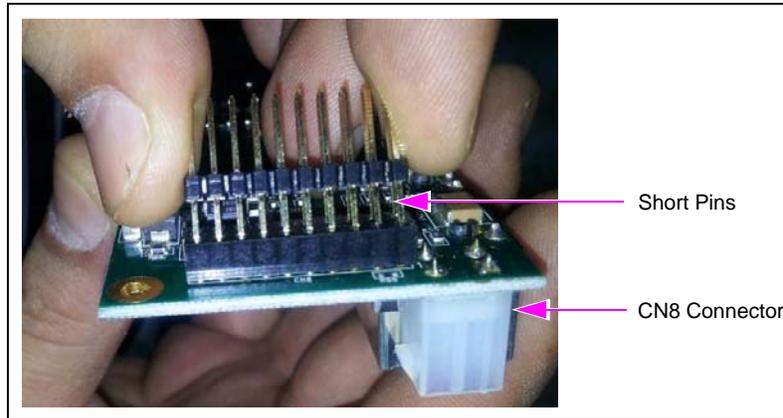
Figure 9: Securing the Spacers



One spacer is already installed. The second spacer must be installed for proper grounding and proper alignment of the 5-port Switch [see [Figure 9 \(ii\)](#)].

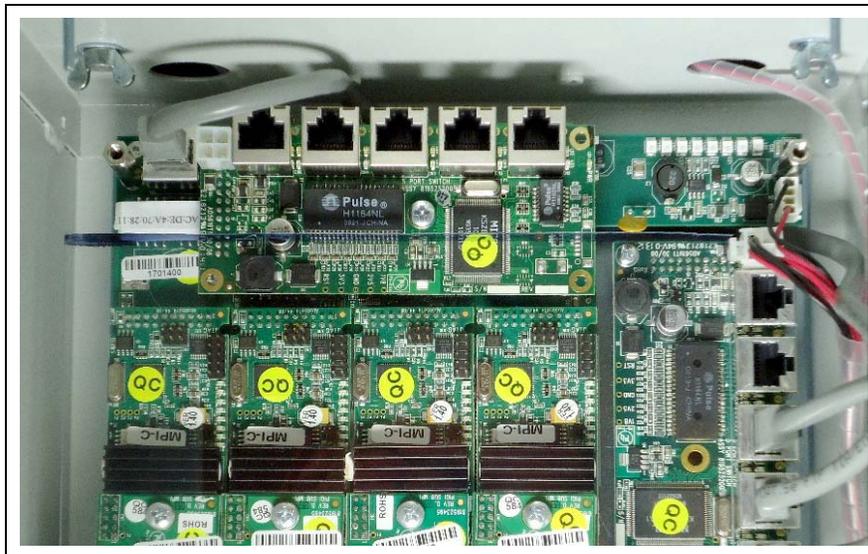
- 9 Secure the spacers using a 9/32-inch nut driver (see [Figure 9](#) on [page 10](#)).
- 10 Carefully insert the short pins of the Printed Circuit Board (PCB) pin header into the CN8 Connector on the back of the 5-port Switch (see [Figure 10](#)).

Figure 10: Inserting the Short Pins



- 11 Connect the 5-port Switch to the 8-port CN14 slot located on the left side of the board.
- 12 Ensure that the 5-port mounting holes are aligned with the 8-port board mounting holes (see [Figure 11](#)).

Figure 11: Alignment of 5-port Mounting Holes



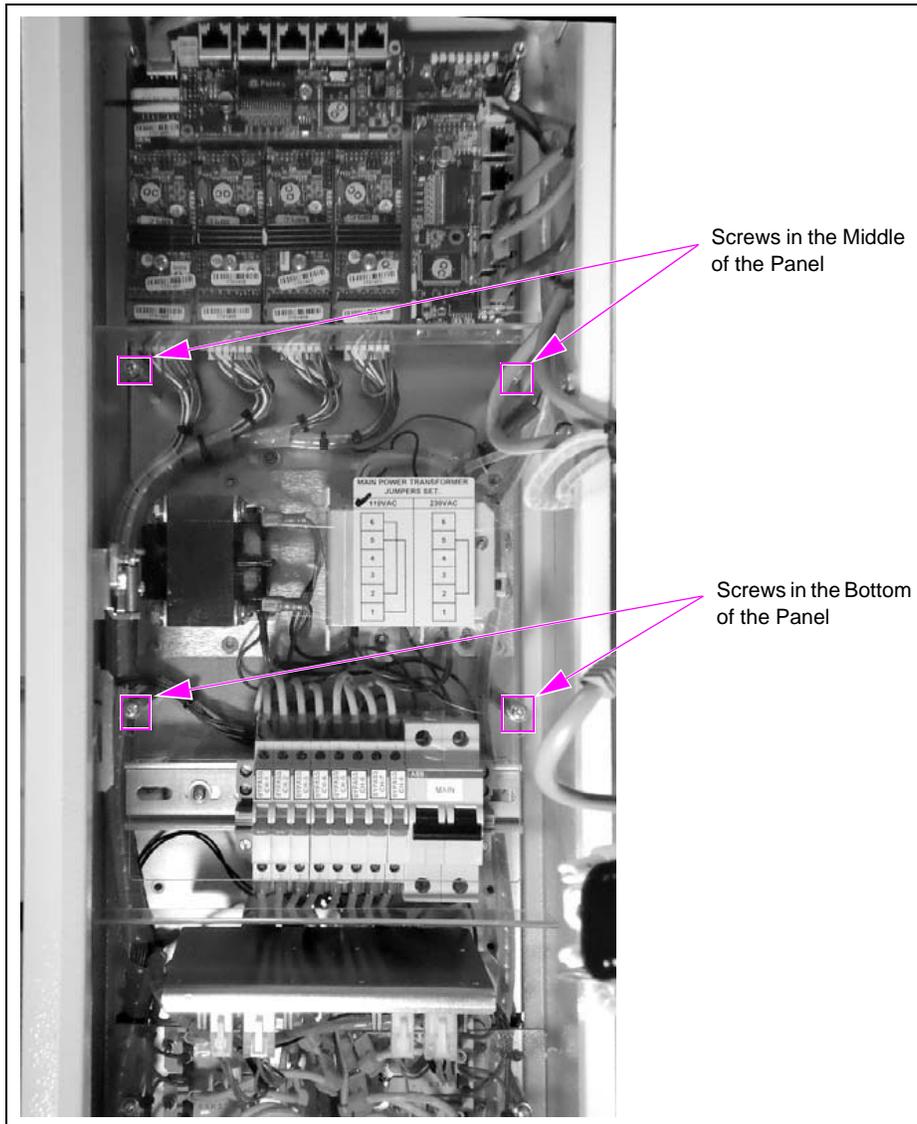
- 13 Check the position of the 5-port Switch. Ensure that it is parallel to the Islander PLUS cabinet at the top and mechanical pump cards at the bottom.

IMPORTANT INFORMATION

Check the alignment of the 5-port Switch before re-installing the screw. The 5-port Board must be straight across the top and bottom. The screw hole must be aligned with the spacer that was installed.

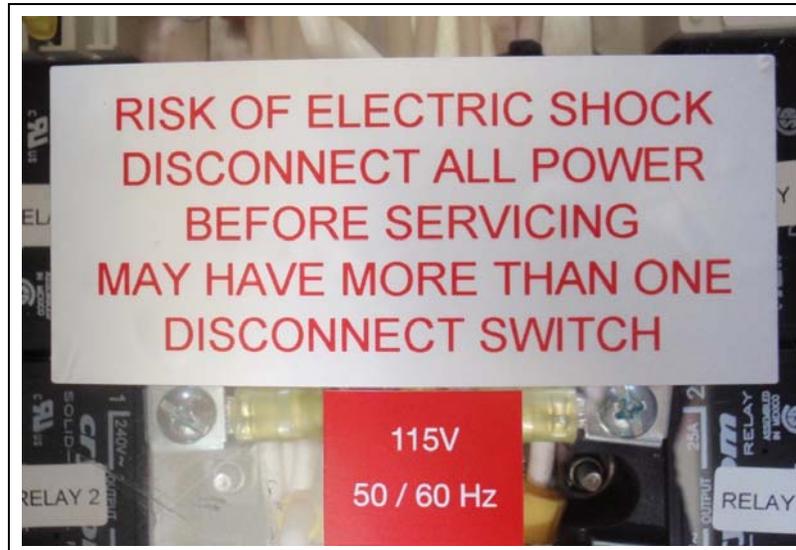
- 14 Re-install the six screws removed in step 5 on [page 9](#) to secure the 5-port Switch in place.
- 15 Replace the protective panel. When replacing the panel, re-install the two screws in the middle of the panel and two screws in the bottom of the panel (see [Figure 12](#)).

Figure 12: Protective Panel



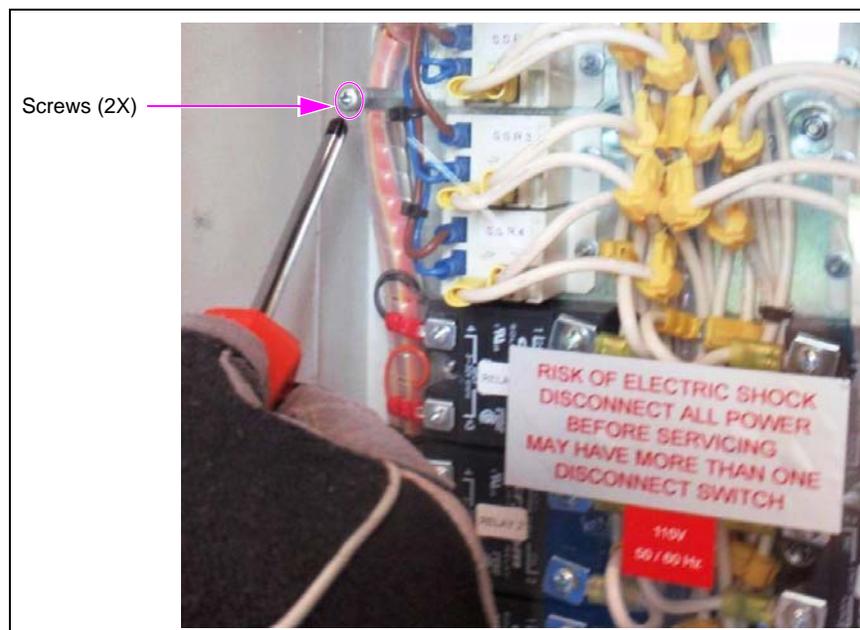
Installing the Server Bracket

Figure 13: Warning Message



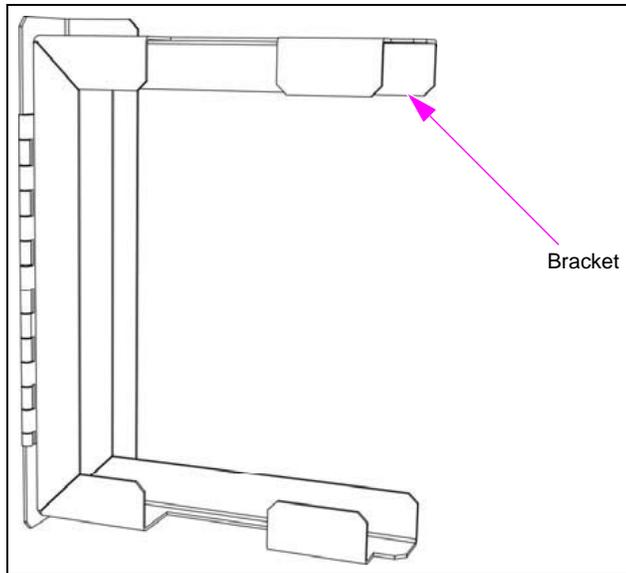
- 16 Loosen the two screws (top and bottom) from the left-hand side of the protective cover (see [Figure 14](#)). Back the screws out several turns to allow the slotted bracket to be inserted.

Figure 14: Removing the Screws



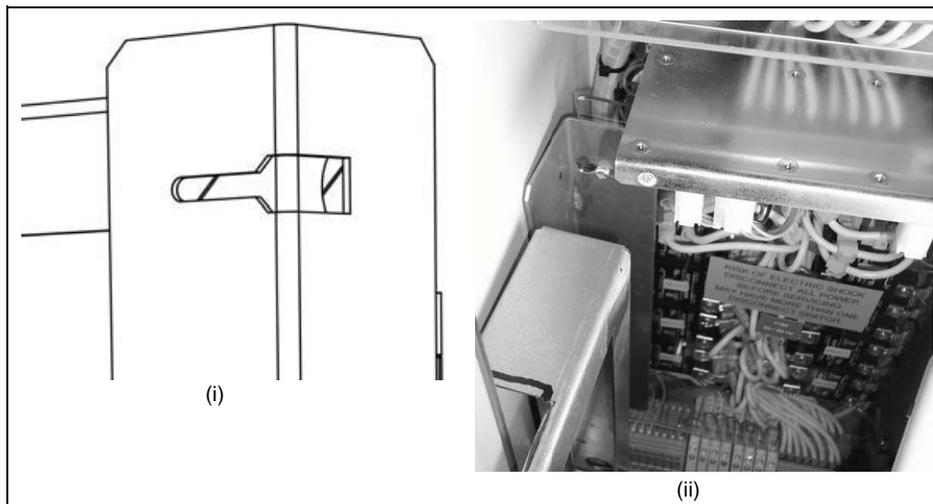
- 17 Place the bracket in correct orientation. The **bracket must swing out** to allow the cables to be connected (see [Figure 15](#)).

Figure 15: Placing the Bracket



- 18 Slide the bracket around the screws through the slotted holes, align the screws, and hand tighten them (see [Figure 16](#)).

Figure 16: Sliding the Bracket



- 19 Secure the bracket, but do not tighten the screws all the way. Slide the bracket back until the mounting base touches the side of the Islander PLUS cabinet (see [Figure 17](#)).

Figure 17: Securing the Bracket

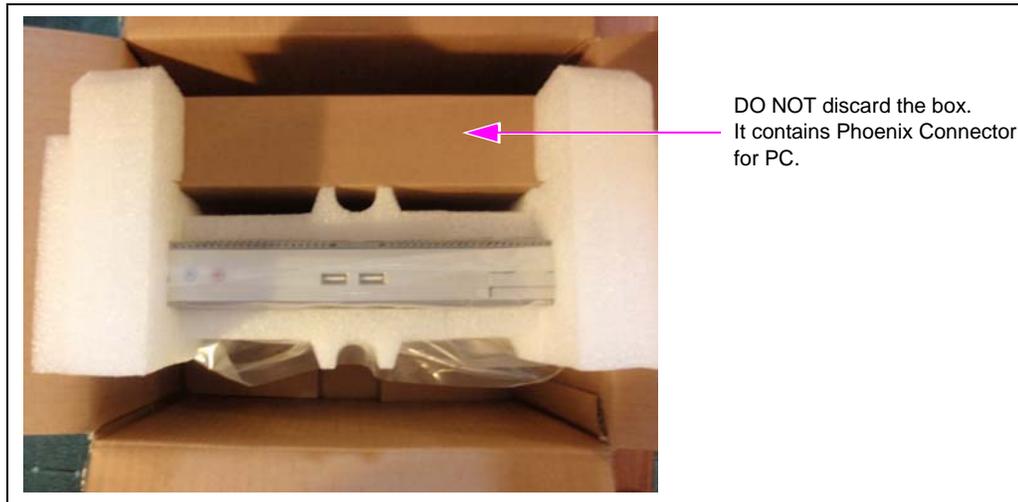


- 20 Tighten the screws to keep the bracket from moving.

Installing the FiPay Server

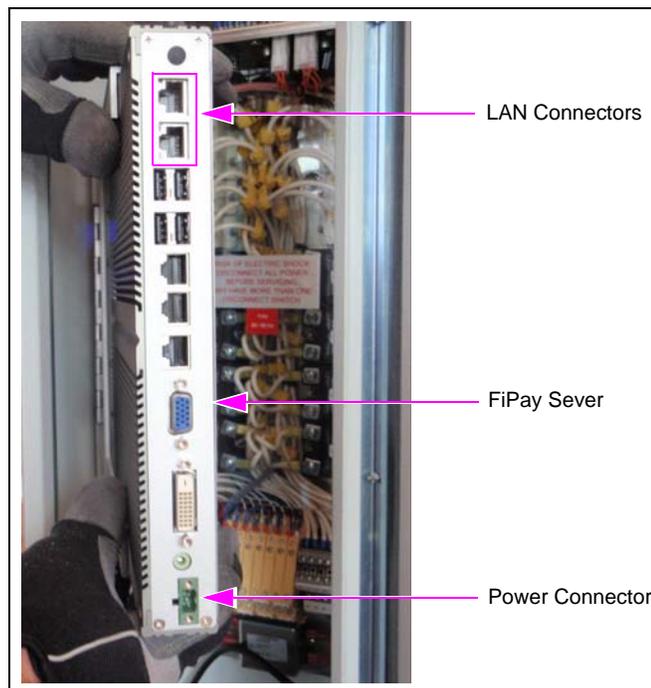
- 21 Remove the FiPay Server from the box.
- 22 Remove the green Phoenix® Connector from the second box (see [Figure 18](#)).

Figure 18: Removing the Phoenix Connector



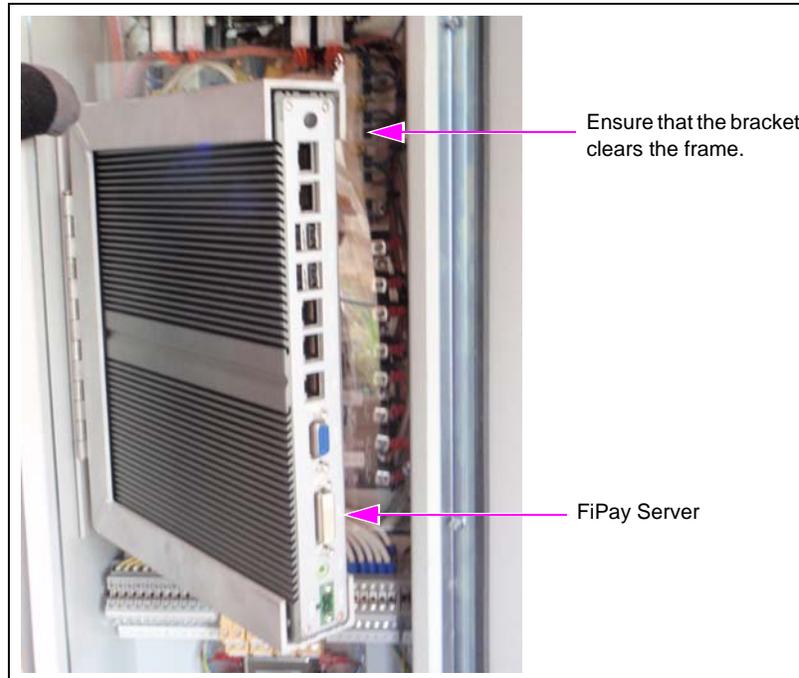
- 23 Check the orientation of the FiPay Server. The green power connector is at the bottom and Local Area Network (LAN) Connectors are at the top (see [Figure 19](#)).

Figure 19: Orientation of the Sever



- 24 Push the FiPay Server into the bracket and ensure that the bracket will clear the Islander PLUS frame. Adjust the bracket by pushing the mounting base of the bracket back against the side of the cabinet, if required (see [Figure 20](#)).

Figure 20: Adjusting the Bracket

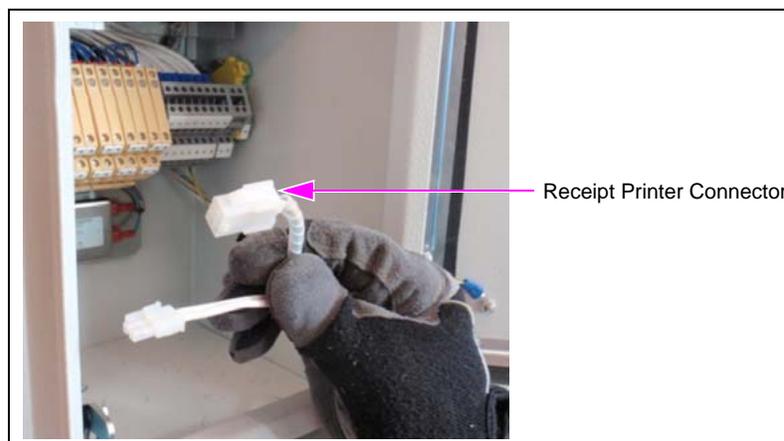


- 25 After checking the clearance, remove the FiPay Server from the bracket and place it in a secure location.

Wiring the FiPay Server

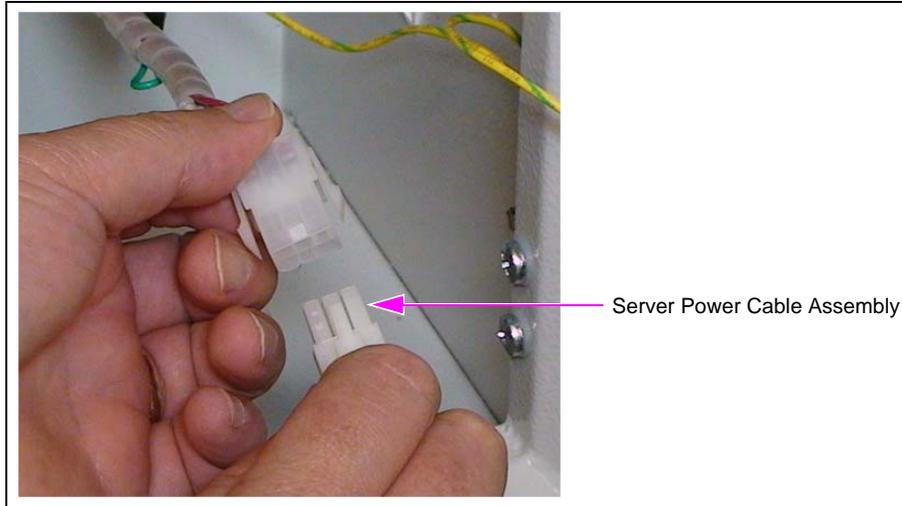
- 26 Locate the Receipt Printer Connector at the bottom of the Islander PLUS (see [Figure 21](#)).

Figure 21: Receipt Printer Connector



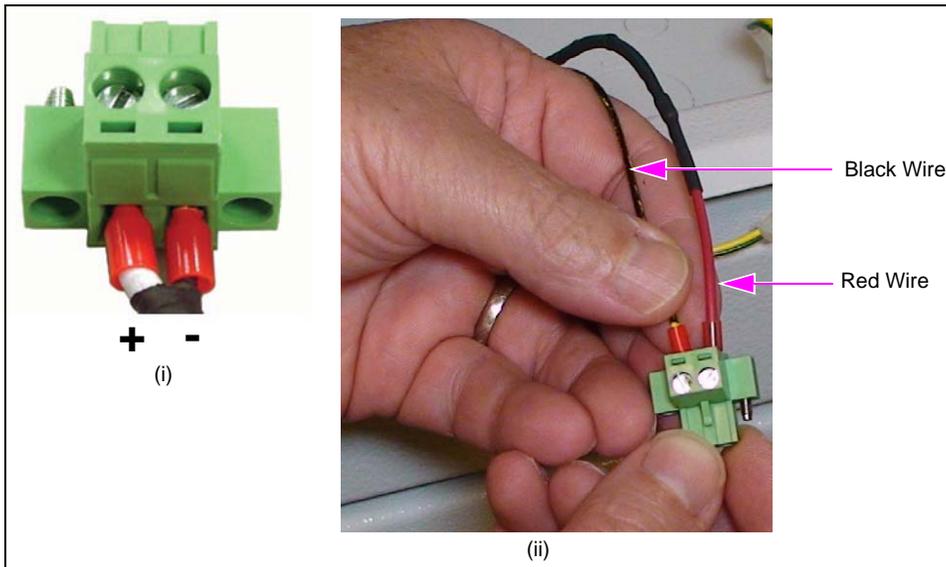
- 27 Plug the Server power cable assembly into the Receipt Printer Connector (see [Figure 22](#)).
Note: Connector is keyed and can be plugged in only one way.

Figure 22: Plugging the Server Power Cable Assembly



- 28 Locate the Phoenix Connector for the Server.
- 29 Insert the red fused wire into the positive (+) side and black wire into the negative (-) side of the Phoenix Connector [see [Figure 23 \(ii\)](#)].

Figure 23: Inserting the Red Fused Wire and Black Wire



The red and black wires are inserted into the Phoenix Connector as shown in [Figure 23](#).

- 30 Tighten the connectors and check if the wires are secure.

Figure 24: Tightening the Connectors



- 31 Check the voltage before installing the Phoenix Connector to the Server PC. Ensure that the voltage is 24 VDC (see [Figure 25](#)).

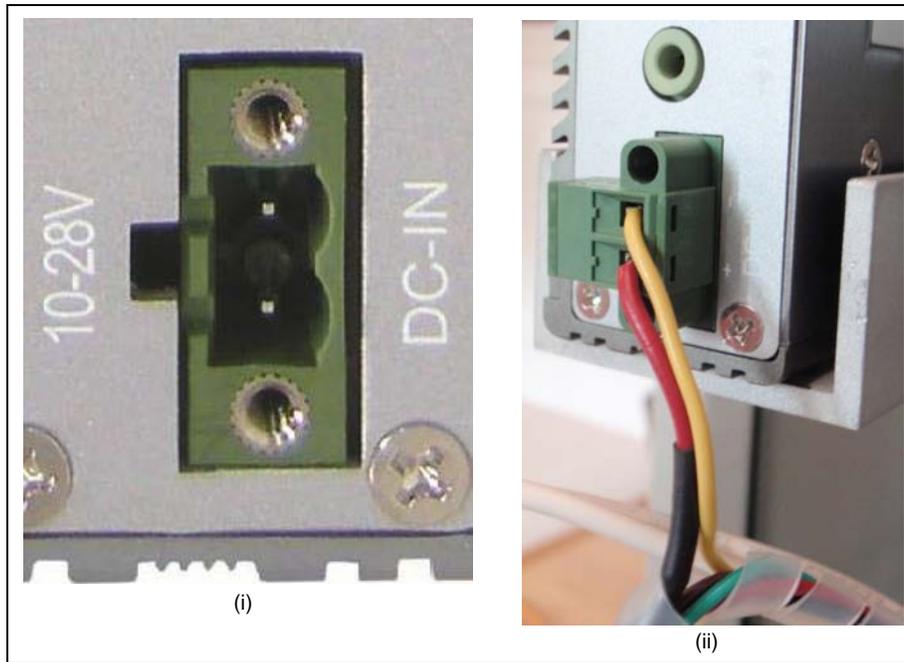
Note: Islander PLUS unit must be powered on.

Figure 25: Checking the Voltage



- 32 After verifying 24 VDC, connect the Phoenix Connector to the Server PC (see [Figure 26](#)).

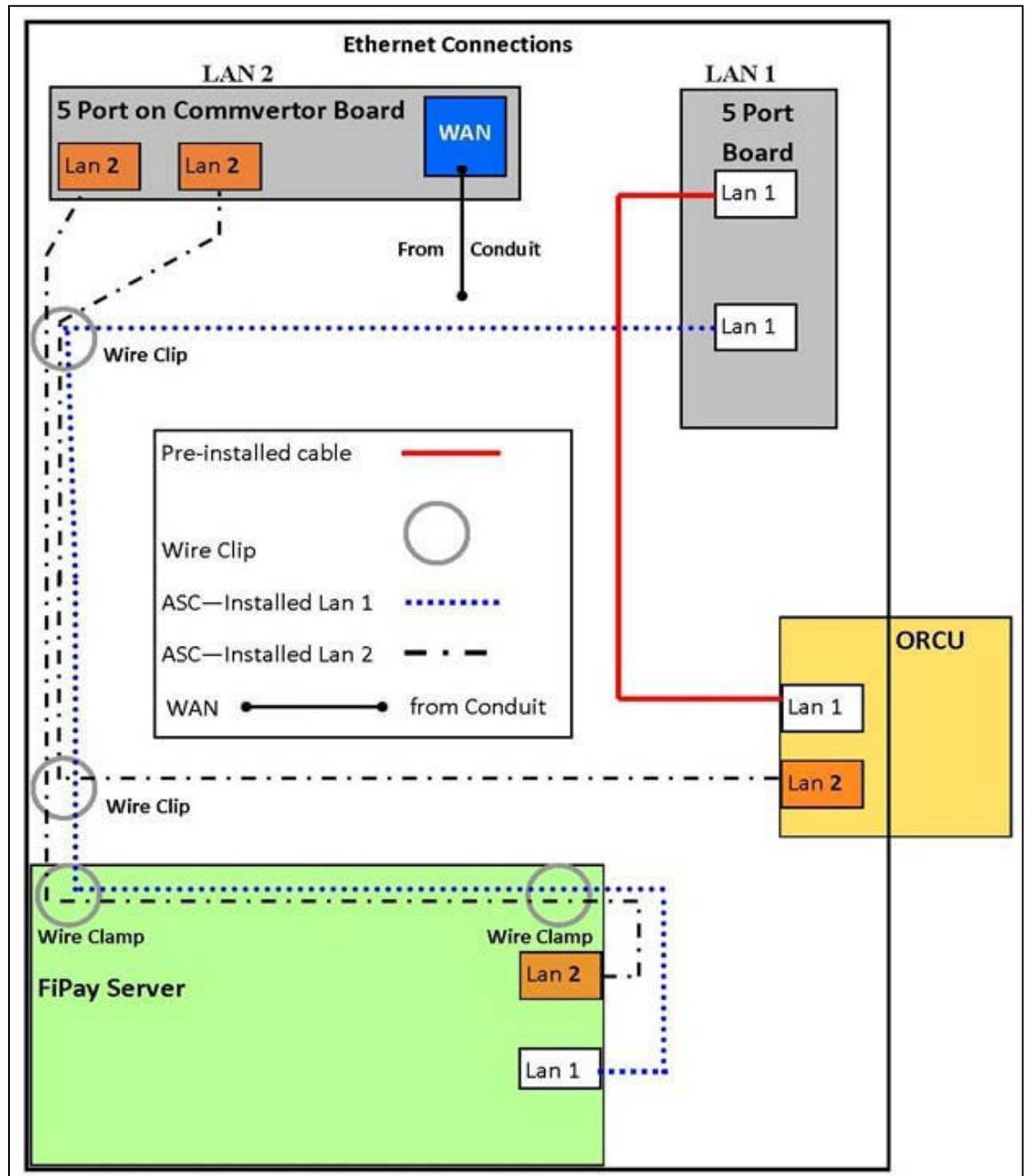
Figure 26: Connecting the Phoenix Connector



Connecting the Ethernet Cables

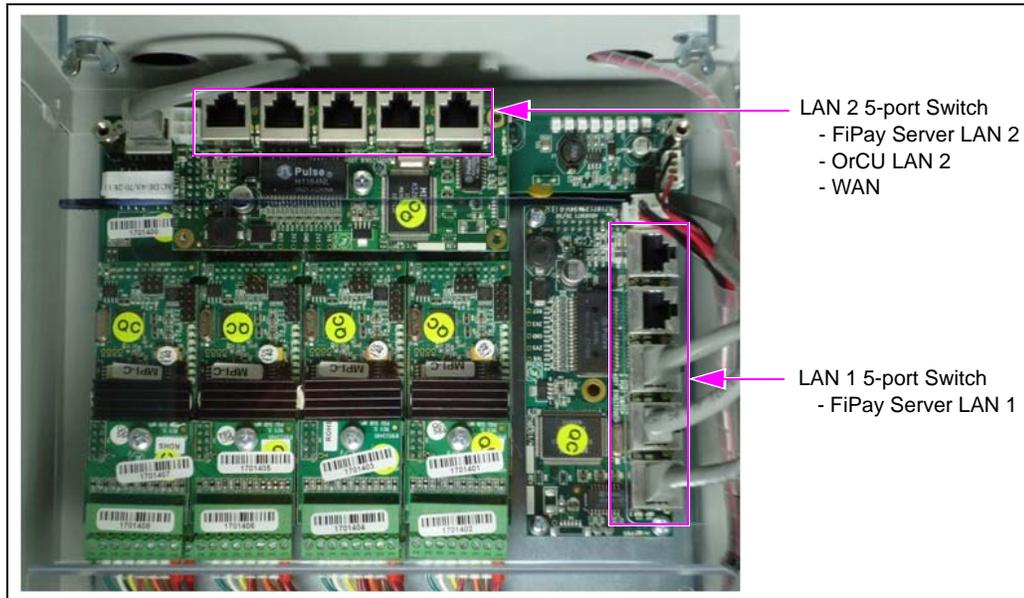
- 33 Make the Ethernet connections as shown in [Figures 27](#).

Figure 27: Connecting the Ethernet Cables



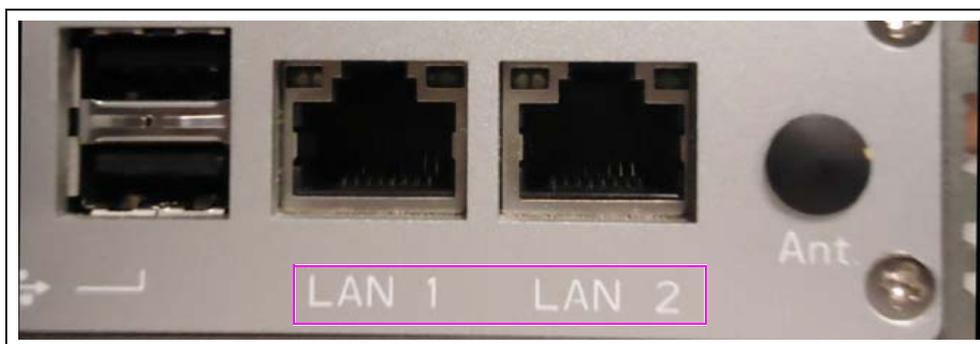
- 34 FiPay LAN ports and 5-port Switch locations in the Islander PLUS are shown in [Figure 28](#).
- Run cable from LAN 2 of the FiPay Server to the LAN 2 5-port Switch
 - Run cable from LAN 2 of the Orpak Controller Unit (OrCU) to the LAN 2 5-port Switch
 - Run cable from LAN 1 of the FiPay Server to the LAN 1 5-port Switch
 - Run cable from the Wide Area Network [WAN (in conduit)] to the LAN 2 5-port Switch

Figure 28: FiPay LAN Ports and 5-port Switch Location



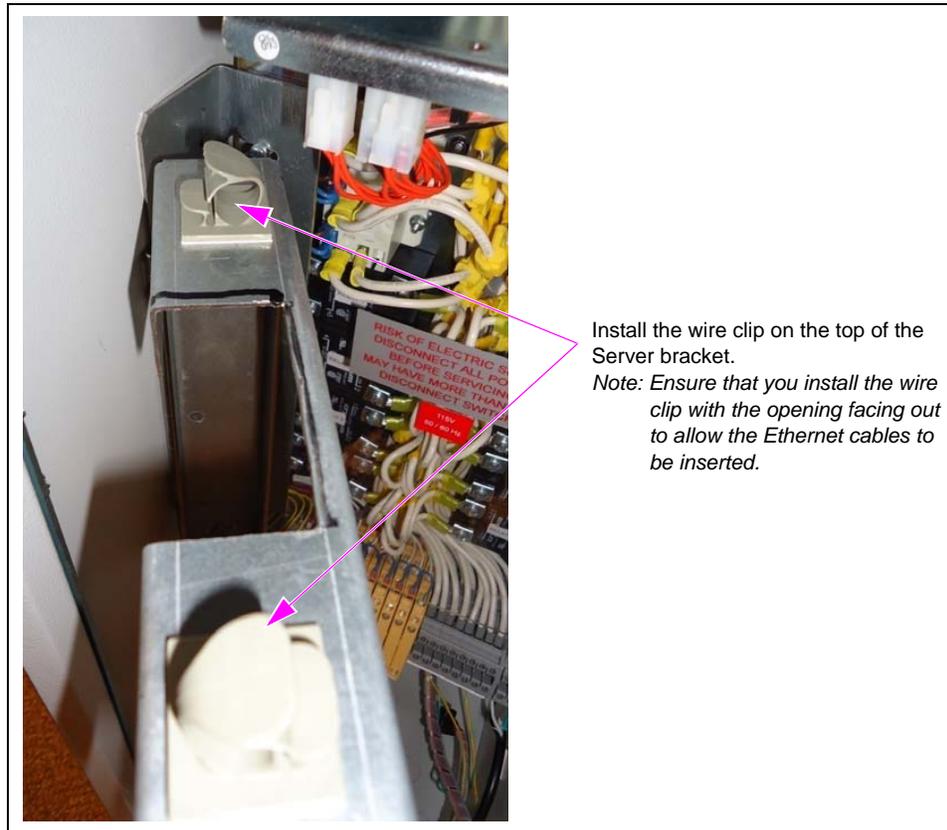
To avoid confusion, FiPay Server is clearly marked as LAN 1 and LAN 2 as shown in [Figure 29](#).

Figure 29: LAN 1 and LAN 2 of Fipay Server



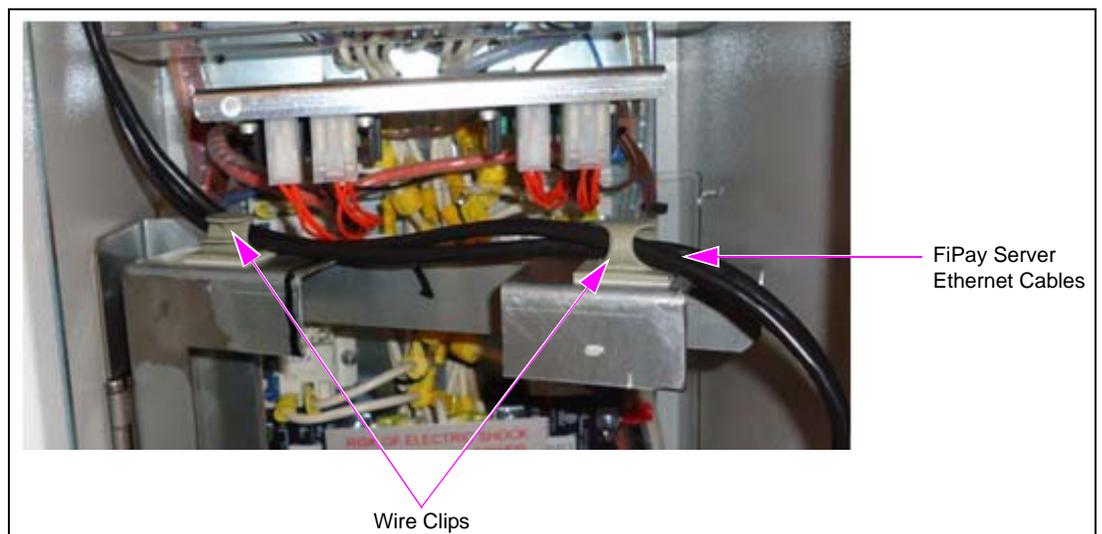
- 35 Install the wire clips on the **TOP** of the Server bracket, one at the front and one at the back.

Figure 30: Installing the Wire Clip



- 36 Insert the FiPay Server Ethernet cables into the wire clips and snap shut.

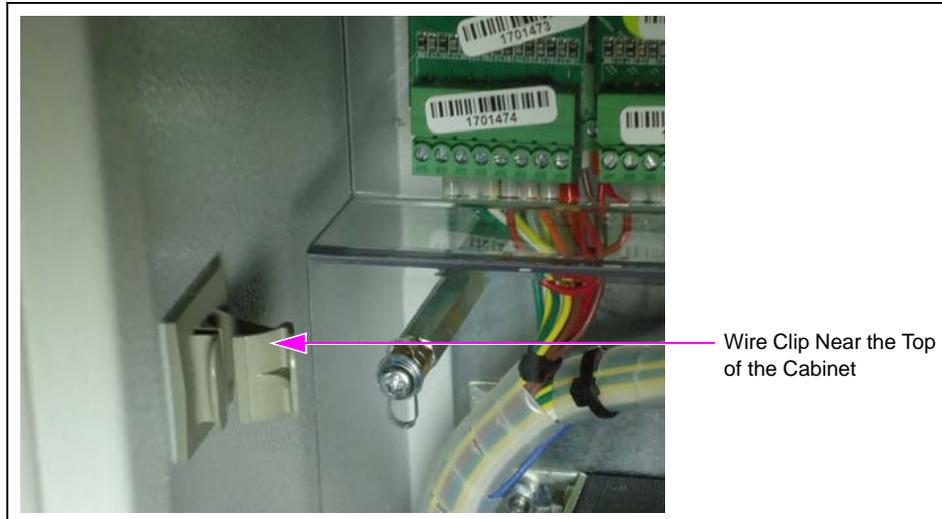
Figure 31: Inserting the FiPay Server Ethernet Cables



- 37 Install the wire clips on the side of the Islander PLUS cabinet.

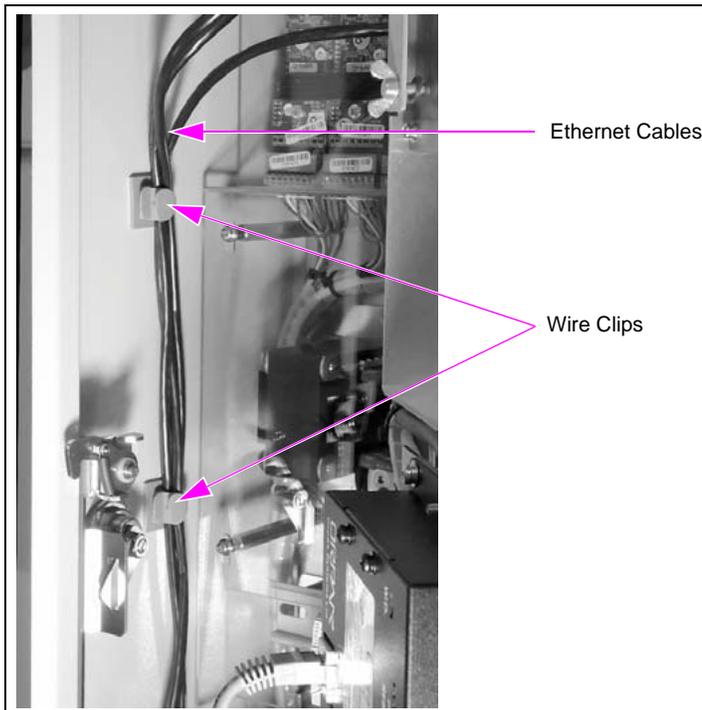
- 38 Place one of the wire clips near the top of the cabinet in line with the bottom of the pump cards.

Figure 32: Placing the Wire Clip



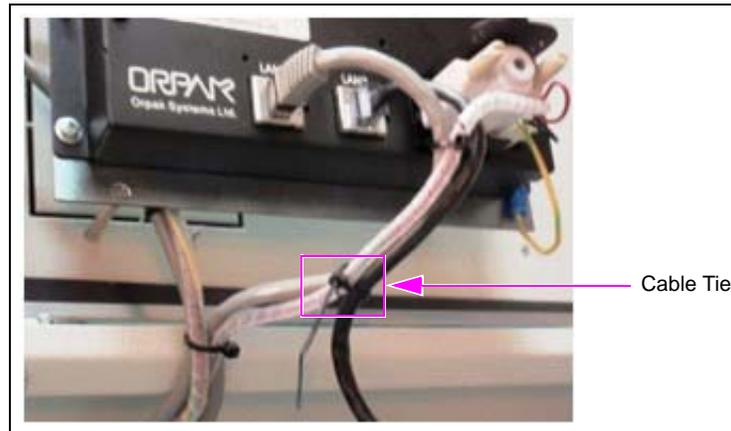
- 39 Install the second wire clip near the top locking mechanism. Both wire clips are installed as shown in [Figure 33](#).
- 40 Insert all the three Ethernet cables into the top wire clip and snap shut (see [Figure 33](#)).

Figure 33: Inserting the Ethernet Cables



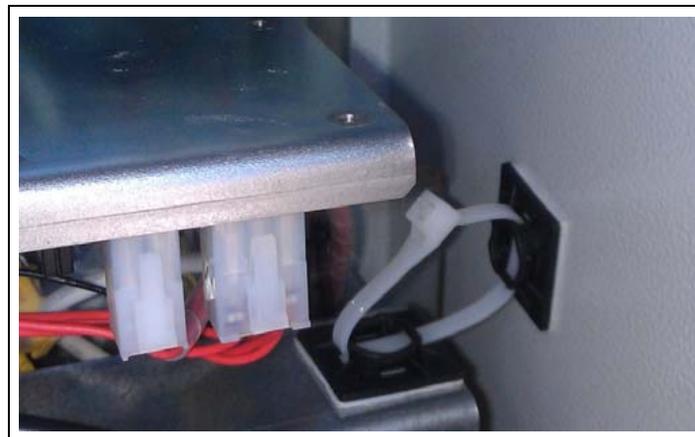
- 41 Insert all the three Ethernet cables into the bottom wire clip and snap shut (see [Figure 33](#) on [page 24](#)).
- 42 Tie the LAN 2 Ethernet cable to the LAN 1 Ethernet cable of the OrCU using a cable tie.

Figure 34: Tying the Ethernet Cables



- 43 Secure the Server bracket using two staycons and a zip tie, to keep it from moving (see [Figure 35](#)).

Figure 35: Securing the Server Bracket



The installation of the FiPay Server and additional hardware components in the 8-hose Islander PLUS system is now complete.

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