

DIVI Setup & User Manual

REV 8

Thank you for purchasing a FASTCORP DIVI merchandiser. This guide will cover safety information and setup of your machine for the first time. Please observe all of the safety precautions at the beginning of this manual. This machine represents over 2 years of product development and incorporates many technological advances offering you years of service without obsolescence.

It is our sincere philosophy that we are partners with our customers and must grow together. With that in mind, we welcome all comments and suggestions either through your sales representative, our customer service department or whomever you have contact with from FASTCORP.

Refer to this manual as you become a DIVI merchandiser in vending.

Thank you, Fastcorp Team



The newest version of this manual may be downloaded at http://www.fastcorpvending.com/support or scan the QR code.

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SAFETY SYMBOLS, CAUTIONS, AND MEANINGS



WARNING: Unsafe practices or hazards that may result in severe personal injury or death.



WARNING: Disconnect power before servicing. Replace all parts and panels before operating. Failure to do so may result in electrical shock or death.



CAUTION: Unsafe practices or hazards that may result in injury or damage.



CAUTION: risk of fire.



Read and follow directions carefully.



Pressure symbol – to indicate pressure.



Unplug power from wall socket.



Ensure machine is grounded.



Do not disassemble.



Do not touch.



Do Not...



Acceptable / Safe.



Suitable for use in tropical climates.

GENERAL SAFETY CONSIDERATIONS



Before operating the vending machine, please read this manual thoroughly and WARNING retain it for your reference.

Use this appliance only for its intended purpose as described in this instruction manual. This appliance is not intended for use by children or any person with reduced physical, sensory, mental capabilities, or lack of experience and knowledge, unless they have supervision or instruction concerning use of the appliance by a person responsible for their safety. These operating instructions cover various models. The specifications of the refrigerator / freezer in your machine may differ slightly from those described in this manual. R600a, R408, or R134a are optional refrigerants used inside the refrigerator in this machine. Check the label on the freezer to verify which refrigerant is used.



- This product's refrigerator may contain isobutane (R600a) or other flammable refrigerants. These are flammable and potentially explosive gases.
- The thermal insulation foam in the freezer may contain flammable insulation blowing gases. Any exposed foam may be highly flammable and must be carefully treated before disposal.



Proper disposal requires refrigerants to be safely removed and insulated areas that used flammable blowing gas to be treated properly

before disposal. Contact your local authority in regard to proper and safe disposal of the freezer in this product.

This machine may be used outdoors.

CLIMATIC ZONE CLASS T

(Suitable for use in Tropical locations, for use in ambient temps of +16 to +43°C.)



Fastcorp highly recommends outdoor installation in a protected location.

When disposing of the refrigerator and/or machine, remove the door(s,) door seal(s,) lock(s,) and door latch(es) so that children or animals cannot become trapped inside.

Contact your local authority to dispose of properly. Children are not allowed to operate, clean, or play in, on, or around the machine.



Failure to comply could result in injury, suffocation, and death.

All repairs must be performed in accordance with Fastcorp service instructions, local codes, and approved safety procedures. Persons attempting to service the machine without proper training or instruction from a Fastcorp service technician may become subject to hazards such as electrical shock which may cause serious injury and death. Only factory approved Fastcorp parts should be used in the repair of Fastcorp machines. Component parts shall be replaced with identical components.

Servicing shall be done by factory authorized service personnel to minimize the risk of possible ignition due to incorrect parts or improper service.

Vending machine shall not be intended for use in lobbies or locations of egress, such as a hallway or public corridor, if the vending machine flammable refrigerant charge amount exceeds three times the refrigerant lower flammable limit (3 x LFL) as expressed in kilograms per cubic meter (kg/m3).

The refrigerant lower flammable limit for the kind of refrigerant is specified on the vending machine nameplate.

No repairs, adjustments, or assembly should be undertaken without using appropriate parts, tools, methods, and instructions.



Always remain clear of the robot arm, freezer lid lift mechanism, and cabinet interior when machine power is on and the cabinet door is open.

Your Fastcorp Divi machine must be installed in accordance with this manual as well as state and local codes before use.

IMPORTANT SAFETY WARNINGS



- Do not move the vendor with a hand truck or stair climber (due to the large size and weight of the vendor.) The vendor should be moved with a pallet jack, fork lift truck, or vending machine dolly only.
- Do not use this machine outdoors at temperatures above 107.6°F (42°C) or below -34.6°F (-33°C).
- Do not use this machine at elevations over 6560 feet (2,000 meters).



- Do not install machine where it will get sprayed with water from surroundings (next to water rides, sea, waterway, car wash, etc.).
- Do not pressure wash or use water jets on or inside machine.
- Do not install in an area with power washers or water jets nearby.
- Do not allow persons with reduced: physical, sensory, mental capabilities, experience, and / or knowledge to operate or clean this machine unless they have supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not allow children of any age to use or play with an open machine.
- Do not allow children of any age to operate, fill, maintain, service, or clean this machine.
- Do not allow unsupervised children near this open machine.
- Do not expose machine to heat from radiators or heaters.
- Do not obstruct airflow to ventilation openings of the machine. 3" is the minimum allowed spacing between the back of the machine and any object to allow airflow in and out of the machine. If built in / recessed into a wall, Airflow into the build-in must not be obstructed (top and bottom.) A build in / built in structure must allow unobstructed airflow in the bottom and out the top.
- Do not install / set machine out of level. The vendor must be located on a solid, flat and level surface. Machine must be level within 2° and must have all 4 feet touching solid ground.
- It is recommended that the vendor be secured to the floor or wall to minimize injury or death from tipping.
- Ensure that the flooring / base substrate where the machine is installed can safely support 800 lbs.



- Do not attempt to repair, disassemble, or modify the machine unless you have had training.
- Do not recharge the refrigerator / freezer except by a certified and appropriately licensed HVAC tech.
- Do not recharge the refrigerator / freezer with refrigerant other than that shown on the freezer label.
- In order to reduce flammability hazards, do not remove or install the freezer unless you are a suitably qualified person to do so.
- Do not damage the refrigeration circuit. In case of damage to the refrigeration circuit, ventilate the area by opening windows. Do not operate any equipment that may produce sparks or flame in the area.
- Do not touch the inside of the freezer with wet hands.
- Do not store explosive or flammable substances such as aerosol cans with a flammable propellant inside.
- Do not store volatile or flammable materials in this machine as they may explode.
- Do not freeze carbonated drinks. They may explode.
- Do not consume food if it is too cold. Food removed from the freezer may be cold enough to cause damage to bare skin.
- Do not use aerosols near this machine.
- Do not install this machine where gas may leak.
- Do not touch the vacuum box until it is allowed to cool. Vacuum box will become hot from use.



FAILURE TO COMPLY WITH THE ABOVE WARNINGS AND HAZARDS COULD RESULT IN ELECTRICAL SHOCK, INJURY, FIRE, BURNS, EXPLOSION, AND DEATH.



A-weighted acoustical noise emitted by this appliance has a sound pressure level (SPL) below 70dB.



SANITATION & FOOD SAFETY REQUIREMENTS

- Access to the service and filling areas are permitted only to competent adult persons having knowledge and practical experience in vending machine sanitation best practices for safety and hygiene.
- Cold foods must be maintained at 41°F (5°C) or below.
- The food manufacturer may have a specific upper temp limit below 41°F (5°C) that the food must be kept below to maintain product integrity. Check with the food manufacturer for their specific upper temp limits.



- Do not fill machine with or vend any food products except for properly sealed, unopened, and pre-packaged food items. Sell by dates must be observed along with appropriate state and local laws. Past date food items must be disposed of properly.
- Potentially hazardous, ready to eat foods held for more than 24 hours must be labeled with the food preparation date to indicate the date by when the food shall be consumed by. This must be seven days or less from the day of preparation. Dispose of ready-to-eat potentially hazardous foods if not consumed within seven days from the date of preparation. Foods which had been prepared in a food processing plant are exempt. If not consumed in time the food must be discarded.
- All food must be labeled in accordance with the Code of Federal Regulations, Title 21.
- All potentially hazardous food must be vended in the original container in which it was packaged at the preparation facility.
- Prepackaged foods that have damaged or non-airtight packaging must be discarded.
- The machine must be checked for food spills and cleaned when found every time it is serviced or filled.
- Food spills must be cleaned up promptly, thoroughly, and properly to avoid sanitation issues.
- Food / product must be inspected for spoilage after a power failure and if a health sensor active code is present. The machine will automatically go out of service with a health error if freezer temp has risen above potentially unsafe limits to prevent vending spoiled foods. Food in a freezer that suffered a prolonged power failure may become spoiled and dangerous to eat. Spoiled food should be disposed of properly and not consumed.

1.5 ELECTRICAL / POWER SAFETY AND REQUIREMENTS

WARNING - ELECTRIC SHOCK HAZARD WORKING ON AN ENERGIZED ELECTRICAL CIRCUIT



COULD CAUSE SHOCK, BURN, SERIOUS HARM, OR DEATH! ALWAYS POWER OFF WARNING AND UNPLUG THE DIVI VENDOR BEFORE ATTEMPTING TO MAKE REPAIRS, TO ADJUST, OR INSTALL PARTS ON / IN THE MACHINE.

The cabinet serial plate indicates the proper Voltage and Amperage required for the vendor.

DIVI MODEL	USAGE	VOLTAGE	FREQUENCY (Hz)	AMPERAGE
FC01/ FC03/ FC05/ FC07	DOMESTIC - North America	110-120	60	12
FC02/ FC04/ FC06/ FC08	INTERNATIONAL	220-240	50	8

The vendor must be plugged into a properly rated, single phase, grounded, AC (alternating current) outlet equipped with its own circuit protection (fuse/circuit breaker).



Do not touch any power cords, switches, fuses, circuit breakers, etc. with wet hands.



- Do not plug in several machines into the wall outlet. This machine should only be plugged into its own outlet which supplies a voltage and amperage rating listed on the machine's power rating label. Wall outlet must be in good mechanical and electrical order and must be maintained to local electrical codes. If the outlet is loose or damaged, do not plug machine in - there is a risk of fire or electrical shock.
- Do not bend the power cord excessively.
- Do not tie, twist, bury, pinch, crush, wedge, entrap, or enclose the power cord.
- Do not place heavy objects on top of power cord.
- Do not hang the power cord over sharp objects.
- Do not use an extension cord with this machine. The vendor must be positioned close enough to an electrical outlet so that an extension cord is not necessary.
- Do not plug machine into a power strip, extension cord, or power splitter. Machine must be plugged directly into an appropriate wall outlet.
- Power cord should extend out or down out of wall outlet to prevent wire strain. If wire extends up from wall outlet an electrician must be called in to flip the wall plug to prevent cord strain and failure.
- Do not crush the power cord when moving the machine.
- Do not unplug machine by pulling on the power cord. It must be unplugged by gripping the plug and pulling.
- Do not use electrical appliances inside the food storage compartments of this machine.
- Do not replace fuses with any other than the standard fuse. Reference the fuse table in this manual or the fuse table in your machine.



Failure to comply with electrical / power safety warnings and requirements above WARNING could result in a damaged power cord. A damaged cord could cause electrical shock, fire, fire hazard, and death. Do not plug in machine If the power cord is showing signs of wear, cracks, abrasion, crush, or pinch damage. Damaged cords must be replaced. Contact Fastcorp to order a replacement cord.

GROUND THE VENDOR



The DIVI Vendor MUST be properly grounded. It must be plugged into a properly grounded outlet that complies with state WARNING and local codes. If the outlet will not accept the power cord plug, contact an electrician to install an appropriate AC outlet and line if WARNING necessary that meets local codes.

- Never use gas pipes, plastic water pipe, telephone lines, or other inappropriate connections as a grounding source.
- The machine must be properly grounded to prevent any power leakages or electrical shocks caused by current leakage from the machine.



Do not remove the ground pin or in any way bypass, modify, defeat, or destroy the grounding system of the vendor.



Do not bypass, defeat, destroy, or replace the power cord with a non GFCI cord if the machine was originally equipped with a GFCI (ground fault circuit interrupter) cord (all 110v Divi machines).



FAILURE TO COMPLY WITH PROPER GROUNDING LISTED ABOVE MAY RESULT IN SHOCK, ELECTROCUTION, BURN, EXPLOSION, AND DEATH.

GENERAL MAINTENANCE

LUBRICATION

With the exception of the robot hose drive bearings, do not use oil or any other lubricants on moving parts. Lubricants may damage the mechanical and electronic components.

3 in 1 oil may be used very sparingly on hose drive bearings. These do not require oil but occasionally can squeak. 3 in 1 oil will stop the squeak.

WD40 and other spray oils <u>are not to be used</u> on components in this machine.

CLEANING CONSIDERATIONS AND REQUIREMENTS

- It is important to maintain the machine in accordance with this manual. The cabinet, freezer, door, and delivery bin should be periodically wiped down with a non-abrasive damp cloth and vacuumed as necessary.
- Children and persons with reduced physical, sensory, mental capabilities, experience, and / or knowledge should not clean or maintain this machine unless they have supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Many commercially available cleaning and antibacterial products may contain solvents that may attack the plastic and rubber components in this machine.
- To allow for proper air flow, the fan located in the lower rear corner(s) of the cabinet should be cleaned using a cloth or a vacuum at regularly scheduled intervals. Those intervals will be dictated by the dustiness of the location.
 All machines should be cleaned at least once a month.
- Manual freezer defrosting should be done as needed using only the included ice scraper. Do not use mechanical devices or other means to accelerate defrosting other than the included ice scraper. Failure to comply could result in freezer damage, fire, explosion, and death.



Disconnect power prior to servicing any electrical or moving components including the fan. Do not pull on wires that supply power to any components. Failure to comply may result in damage to the vendor and increased risk of electric shock.



- To avoid the possibility of a fire hazard and to decrease the possibility of restricted airflow into the vendor, do not store anything or allow debris to accumulate on the bottom of the door, inside or behind the cabinet, near the fan or in the general area of the vendor.
- Do not use water, soap or any other liquid to clean the inside of the vendor. The outside of the cabinet and glass can be cleaned using a soft cloth

and a mild detergent. Never use flammable materials to clean any part of the vendor.



- Do not pressure wash or use water jets to clean machine.
- Do not immerse machine in water ever! If the inside of the machine gets wet, or machine is immersed, power must be disconnected to the machine and allowed to dry completely before restoring power to machine and restoring machine into operation.



Do not go near or attempt to unplug an already immersed machine. Power should be disconnected at the breaker box or other disconnect switch if the area is dry.

If it is an emergency, call the fire department to cut the power. If you are unsure of the above requirements, please call Fastcorp service at (888) 441-3278 for assistance.

MACHINE DIMENSIONS



72.5 - INCHES / 185 CENTIMETERS
41 - INCHES / 104 CENTIMETERS
37 - INCHES / 91 CENTIMETERS (WITHOUT BACK BRACE)
775 - POUNDS / 352 KILOGRAMS
800 - POUNDS / 363 KILOGRAMS

Machine Model Numbers:

FC01=DIVI basic FC02=DIVI Basic 220VAC

FC03= DIVI Refrigerated

FC04= DIVI Refrigerated 220VAC

FC05= DIVI Ambient

FC06= DIVI Ambient 220VAC

FC07= DIVI Combo (Refrigerated & Ambient)

FC08= DIVI Combo (Refrigerated & Ambient) 220VAC

NOTE: Vendor door can be opened and machine carefully "clam shelled" through a 36" door opening.

- Unwrap and inspect your machine for any shipping damage.
- Use a 7/6" open end wrench to adjust the 4
 leveling legs until machine is level. A bubble level
 has been supplied with the machine. An out of
 level machine can cause bin locations to be off as
 well as prevent the cooling system from
 operating properly.
- Remove all shipping tie-wraps. Ensure robot is free to move and freezer lid opens.
- If you are adding currency systems to the machine install them at this time with the machine powered OFF.
- Hot plugging currency systems will damage the control board! Be sure to switch off machine power before plugging in any MDB / currency handling devices.
- Undo cord from back of machine and plug into 15A or 20A dedicated wall outlet.
- The main power switch is located behind or to the left of the freezer – switch to ON.
- The controller power switch is to the left the delivery bin switch it on at this time.
- The machine display is mounted on a hinged plate.
 Pull it from inside the door to view from inside the cabinet where the keypads are located.
- When the machine powers up you should see menu #1 "Change Price." If not press the * button. The machine is in service mode when you see the menu options. It is in vend mode if it says please insert money or out of service. If the machine is in vend mode with the door open and you need service mode, push the door switch in (behind the T handle.) The door switch is a 3 position switch. Pushed in (door closed) is vend mode. Switch in the middle position is service mode. The switch can also be pulled out to force vend mode for testing.
- Press the "VAC" button to unlock service mode access.
- Use the * key to scroll to menu #7 and verify your time and date.
- Scroll to menu #13 and verify your health sensor is set correctly for your product.

• If your machine was pre-programmed from the factory you should scroll to menu #22 "Verify All Bins." This menu option will move the robot to each programmed location. If you see the location needs adjustment move the robot by hand into position and then press # to save and it will automatically go to next selection until you see "Selection Not Found." If bin to robot alignment is consistently off, check the machine for level and adjust if necessary before adjusting bins. Also check vacuum hose for straightness.



- The vacuum hose can set a memory from sitting for a long time. To help straighten the vacuum hose go to menu 20 and press the down button until the picker tip (the pickup head) is down near the bottom of the machine. Push the robot to the side where it wont get crushed in anything and let the machine sit overnight.
- If your machine is not pre-programmed you should use menu #4 "Create Selection" to start programming. See "Bin programming / Plan-o-gram" for instructions.
- Free vend can be used to test the machine operation. Press "Free Vend" then pull door switch out to enter vend mode. The display should read "Free Vend Mode." Make any selection and watch for operation.

NOTE: Since door is open you will need to be ready to catch your product in hand.

- It is important to vend 1 selection in a tall bin and 1 selection in a short bin until the controller believes the bin is empty in one of each. This will verify correct max pickup depth. The picker tip should never get closer than 1" to the bottom of the bin or it may try to grab the bin. If product is very thin, you can use a plastic mesh material with large openings that the robot vacuum can not grab if it tries to go down too far. If the vacuum fails to pickup 3x in that bin it will mark it empty. Its good practice to check bins marked empty to make sure its not trying to go down too far.
- Don't forget to turn "Free Vend" off and close the display door for customer operation. When closing the main door tighten the T handle until display reads "Please Insert Money" and then another turn before locking. Your machine is ready to run.

If you have read this manual and still have questions, please call Technical Support at 888-441-3278 ext #3

WARRANTY FASTCORP ("SELLER") TERMS AND CONDITIONS OF SALE.

I. PRICES

All prices, quotations, shipments and deliveries by Seller are F.O.B. Seller's facility. All base prices are subject to change upon thirty (30) days' notice and all orders are accepted subject to Seller's price in effect at the time of shipment.

II. APPLICABILITY, ACCEPTANCE AND MODIFICATION

These terms and conditions apply to all quotations and purchase orders covering the sale of Seller's products or services. Seller's acceptance of Buyer's order is expressly made conditional on Buyer's acceptance of the terms and conditions set forth herein. The terms and conditions set forth herein constitute the complete agreement between the Seller and the Buyer, and may be accepted only in accordance with their terms. They may not be modified except by written agreement referring specifically to these terms and conditions and signed by a duly authorized officer of Seller. Any provisions of Buyer's purchase order which are inconsistent with the foregoing shall be of no force and effect, unless Seller shall have agreed to a modification of these terms and conditions in the manner set forth herein. Buyer's failure to dissent from the terms and conditions, or Buyer's acceptance or use of the Seller's equipment shall constitute Buyer's acceptance of these terms and conditions. Buyer, by these presents and the acceptance of the goods ordered herein represents and warrants the Buyer is solvent and able to pay for the goods in accordance with these terms and conditions of sale. Any order accepted by Seller shall not be assigned, sold or otherwise transferred by Buyer unless Seller expressly agrees in writing to such sale, assignment or other transfer.

III. DELIVERY AND DELAYS

Seller's obligation is to deliver the goods F.O.B. Seller's facility. Risk of loss passes to Buyer at the moment of delivery. Buyer will inspect the products within a reasonable time after receipt thereof and if Buyer fails to notify Seller within thirty days after receipt that the products are defective in any respect, Buyer will have waived any rights or claims against Seller. Orders for products made to Buyer's specifications are not subject to cancellation by Buyer. Products made to Buyer's specifications must be inspected and accepted by Buyer before shipment. After shipment, Buyer shall have no rights or claims against Seller for such products. Delivery dates appearing on Seller's

order acknowledgment, or given to Buyer in any other manner, are approximate. Seller will not be liable for any delay in the peformance hereof or for any damages suffered by Buyer by reason of such delay it caused or by the occurrence of any contingency beyond the control of Seller including, but not limited to, delays or non-delivery arising directly or indirectly from fires, floods, substantial damage to its plant, accidents, riots, acts of God, open hostilities, declarations of national emergencies, war, terrorist acts, governmental interference or embargoes, strikes, labor difficulties, shortage of labor, fuel, power, materials or supplies, or any other cause or causes (whether or not similar in nature to any of those herein above specified) beyond its control. Seller shall allocate production and deliveries among Seller's customers in its sole discretion.

IV. STORAGE

In the event that Buyer is unable to accept delivery of parts or equipment at the time of completion and of shipment, Seller may invoice for the total purchase price as if the shipment has been made and; (i) if Seller is able to store such equipment in its own facilities, the Buyer shall pay Seller reasonable handling and storage charges for the period of such storage; or (ii) if Seller is unable to store such equipment in its own facilities, Seller reserves the right to arrange handling and storage in a suitable warehouse for the Buyer, at the Buyer's expense. In cases where handling and storage become necessary, it will become the responsibility of the Buyer to notify Seller when shipment is to be made and to what destination.

V. ADEQUATE ASSURANCES

Seller may, at any time, suspend performance of any order or require payment from Buyer in cash, security or other adequate assurance satisfactory to Seller when, in Seller's sole opinion, the financial condition of Buyer or other grounds for insecurity warrant such action.

VI. TAXES

Any tax which the Seller may be required to pay or collect, through assessment or otherwise, under any existing or future law upon or with respect to the sale, purchase, delivery, transportation, storage, processing, use or consumption of any goods or services provided by Seller to Buyer, including taxes upon or measured by the receipts from sales or services, shall be for the account of Buyer and may be added to the price of goods or services purchased by Buyer. Buyer shall promptly pay the amount thereof to Seller upon demand.

5 YEAR LIMITED PARTS WARRANTY

- A. Subject to the limitations specified herein, the DIVI Merchandiser manufactured by Seller is warranted for five (5) years from the date of purchase against defective parts and workmanship for motors and vacuum motors. The DIVI Merchandiser's Boards, including the VMC Board, the Shoulder and Elbow Encoder Board and the Z Encoder Board are warranted for two (2) years from the date of purchase against defects in workmanship. The DIVI Merchandiser's freezer system consisting solely of the compressor, condenser, evaporator and the refrigerant tubing is warranted for two (2) years from the date of purchase against defective parts and workmanship. Any part or parts which are proven to be defective within the applicable warranty period will be repaired and/or replaced free of charge, provided that, (i) the return of such part or parts is authorized in writing by Seller's Warranty Department (the "Return Authorization"), and (ii) the defective part and a copy of the Return Authorization is returned with transportation charges prepaid to the destination designated by Seller's Warranty Department. All labor charges shall be for the account of Buyer. (iii) Items including but not limited too normal wear, i.e. rollers, hoses, gears are warranty for two (2) years from date of purchase.
- B. The warranties provided pursuant to apply only to the original purchaser of the DIVI Merchandiser and are null and void if the DIVI Merchandiser is sold during the period of warranty.
- C. Not with standing anything contained herein to the contrary, the limited warranties provided for herein do not apply to: (i) electrical components, wiring, or circuits and / or for all mechanical parts or assemblies damaged as a result of operating the DIVI Merchandiser at other than 115 volts, 60 Hertz current; (ii) incandescent lamps, neon lamps, fluorescent lamps, ballasts, starters, bins and associated components, graphics or other expendable items; (iii) when other manufactured components are installed by Buyer in the DIVI Merchandiser; and (iv) coin mechanisms, bill validators, currency systems, telemetry systems, cashless payment systems, debit card readers, and other accessories not manufactured by Seller installed at Buyer's request.

- D. Seller is not responsible for any cost of service rendered or repairs made by buyer or its agents on merchandise or parts unless authorization to incur expense has been given in writing by Seller prior to incurring such expense.
- E. Seller shall not be liable to Buyer under this warranty if Seller determines that the defect was caused by misuse, abuse, vandalism, improper application, improper operation, improper maintenance, alteration, repair or modification, negligence or use, casualty, fire, flood, storage, handling or any other cause beyond the control of Seller.
- THE WARRANTIES PROVIDED FOR UNDER THIS ARE **EXCLUSIVE AND IN LIEU OF ALL OTHER** WARRANTIES, OBLIGATIONS OR LIABILITIES. SELLER EXPRESSLY DISCLAIMS AND BUYER HEREBY WAIVES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER ACKNOWLEDGES AND AGREES THAT NO OTHER REPRESENTATIONS OR WARRANTIES WERE MADE TO OR RELIED UPON BY BUYER WITH RESPECT TO THE QUALITY AND FUNCTION OF THE GOODS SOLD HEREIN. SELLER DOES NOT AUTHORIZE ANY PERSON, COMPANY OR ENTITY WHATSOEVER TO ASSUME FOR IT ANY **OBLIGATION OR LIABILITY IN CONNECTION** WITH THE SALE OF SAID EQUIPMENT OR ANY PART THEREOF.

LIMITATIONS OF BUYER'S REMEDIES

Buyer's remedies with respect to any claim arising out of any order, or Seller's performance in connection therewith, including, without limitation, any claim arising out of any defect or alleged defect in any goods or services furnished by Seller, shall be limited exclusively to the repair and replacement of defective parts as specified in herein. Without limiting the foregoing, Seller shall not be liable for breach of contract arising out of or in connection with a warranty claim. In no event shall Seller be liable for any damages including, but not limited to, lost profits or other incidental or consequential damages arising out of this agreement or the use or inability to use any of the products including, but not limited to, the DIVI FC (plus any subsequent digits) Merchandiser, even if Seller has been advised of the possibility of such damages, or of any claim by Buyer or any other party.

WAIVER

Waiver by Seller of any breach by Buyer of any of the terms and conditions set forth herein shall not be construed as a waiver of any other breach or the failure of Seller to exercise any right arising from any default of Buyer hereunder shall not be deemed to be a waiver of such right, which may be exercised at a subsequent time.

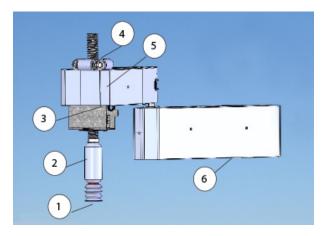
GOVERNING LAW

This Agreement shall be governed by the Uniform Commercial Code as adopted by the State of Connecticut in force as of the date hereof. Buyer consents to the jurisdiction of the state and federal courts within the State of Connecticut. Service of process by certified or registered mail shall be sufficient to commence suit and obtain a judgment by default. Buyer waives any right to personal service of process. Not with standing anything contained herein to the contrary, if Seller so directs, any controversy or claim arising out of or related to this agreement or the performance or breach thereof shall be resolved by binding arbitration in accordance with the rules and procedures then obtaining of the American Arbitration Association. Any action or proceeding by Buyer arising out of or in connection with this transaction, including any claim for Seller's breach of contract or Seller's breach of Warranty, must be commenced within five (5) years after the delivery of the equipment to Buyer except in the case of a claim for Seller's breach of Warranty relating to the DIVI Merchandiser's freezer system as provided for herein which must be commenced within two (2) years after the delivery of the equipment to Buyer.

CREDIT

All invoices paid after the due date specified within shall accrue interest at the lesser of 2% per month or the highest rate of interest permitted by law. In the event that the Buyer pays any invoice with a credit card, Buyer hereby waives, releases, and discharges any all rights that Buyer may have, under the terms of Buyer's agreement with the credit card provider to dispute, challenge and / or, protest the payment of any Seller invoice.

FAMILIARIZE YOURSELF WITH THE ROBOT ARM ASSEMBLY



	Robot Arm Assembly - F003 - A07877		
1	1 2300014 Vac Cup (AKA picker tip)		
2 F003-A04143 Weighted Picker Assy			
F003-A03910 Forearm Assy - with Cover Assy F003-D04617-WH			
4	49200130	Vacuum Hose	
5	F003-A04171	Vac Hose Drive Assy	
6	F003-A04147	Humerus Assy - with cover Assy F003-D04618-WH	

TRANSPORT, UNPACKING AND **INITIAL SETUP INSTRUCTIONS**

TRANSPORT CONSIDERATIONS

The DIVI Vendor should always be maintained in an upright position. Failure to do so may result in permanent damage to the vendor. Whenever the DIVI Vendor is transported, always install the shipping brackets that were provided with the machine. Replace cable ties as necessary. Refer to the un-crating instructions for cable tie and shipping bracket installation.



ALL SHIPPING BRACKETS MUST BE REMOVED BEFORE APPLYING POWER TO THE MACHINE. **FAILURE TO DO SO MAY RESULT IN** PERMANENT DAMAGE TO THE ROBOT OR ELECTRONICS.

RECEIVING INSPECTION

Upon Receipt and, before removing packing material, inspect the outside of the machine for damage. Remove exterior packing materials and again inspect the vendor for shipping damage. If possible, report shipping damage to the truck driver at the time of delivery. Have the driver note damage on the bill of lading and immediately notify the trucking company. Although the terms of sale are FOB shipping point which requires the consignee to initiate shipping damage claims, Fastcorp will gladly help if a claim needs to be filed.

TOOL REQUIRED UN-CRATING THE VENDOR

- Screw gun with #2 square bit -to remove screws (only if sand boxed)
- Box cutter knife to remove stretch wrap
- Cutting pliers to cut tie-wraps
- Phillips screw driver
- 3/8" wrench

The DIVI Merchandiser is packaged using the most effective means possible to safeguard the vending machine during transportation and distribution. We encourage you to save the shipping materials for reuse whenever the vendor is shipped. The cabinet is shrink-rapped after the installation of:

- Four Corner Boards
- **Bubble Wrap**
- **Card Board Panels**
 - This serves to protect the graphics and prevent damage to the cabinet and door.
- **Optional Sandbox**
 - We install a protective wood perimeter barrier onto the skids at the base of the cabinet to prevent damage from fork trucks during warehousing and transport.

Robot shipping bracket / ties



REMOVE SHRINK WRAP FROM THE CABINET BEFORE STORING THE VENDOR OUTSIDE.

REMOVE THE SHIPPING MATERIALS

Use a screw gun with a #2 square bit to remove the retainer screws from the wood perimeter barrier at the base of the vendor.

- Use a box cutter knife to cut the shrink wrap. When cutting the shrink wrap, make all cuts over the corner boards. Failure to do so may cause damage to the Power Supply Cord, Graphics, or paint.
- Store corner boards, card board panels and wood base barrier for future use.
- The shipping skids that are installed onto the DIVI Vendor will accommodate most pump jacks and vending machine lifting devices. It is unnecessary to mount the machine onto a pallet for transport with these in place. The skids are held in place by the (4) Leveling Legs.

REMOVE THE SHIPPING SKIDS



The shipping skids can be removed by lifting and supporting the vendor with an approved WARNING lifting device and then remove the (4) leveling legs using a pair of pliers. Re-install the leveling legs a minimum of 3/4". Store shipping skids for future use.

The shipping skids have center cuts (kerfs) cut through each end and between the leveling legs and screws on each end keeping the kerfs together. Remove the screws to split the skids. Please note, splitting the skids will render them unusable in the future. The shipping skids will need to be replaced before the machine is moved again. Adjustable feet will bend / break if shipped without a shipping skid.

TRANSPORT, UNPACKING AND INITIAL SETUP INSTRUCTIONS

ADJUST THE FRONT LEVELING LEGS

Level the cabinet using the included bubble level to less than 2° of being level. All legs must be in solid contact with the ground. A maximum of 1" of thread is visible when the leveling leg is fully extended. Do not extend the leg beyond this point. Leveling legs are adjusted using a $\frac{7}{16}$ " wrench. Unscrewing / adjusting the legs down will raise the machine approximately $\frac{1}{16}$ " per turn of the foot in that corner. If the machine is to be used next to another vendor, compare the top and side for proper alignment.

Minimum leg extensions should be used in leveling and alignment to attain greater stability. Make sure that all the leveling legs are in contact with the floor and that the machine does not rock. If you cannot level the vendor, select another location. Do not place any objects under the machine. Leveling is extremely important to ensure proper vendor operation and robot function. Do not program or operate the machine before the leveling process is complete. If pre-programming selections in a warehouse prior to placement, the machine must be leveled again at the new location and all the program selections checked for proper robot to bin alignment.

INSTALLING AND POSITIONING THE MACHINE

- Maintain a distance of at least 3" (7.6 cm) between the rear wall of the vendor and any obstructions to ensure adequate ventilation airflow. If enclosed / built in, airflow in the bottom and out the top must not be obstructed or blocked.
- Opening the Front Door: The T-Handle keys (if locks are supplied,) can be found in the coin change pocket. Unless otherwise noted, the T- Handle lock cylinder and keys that come with each DIVI Vendor are common to all machines shipped from Fastcorp Vending 3, LLC. All shipping locks should be replaced before the machine is placed on location.
- 3. Power Supply Cord: The 115v DIVI Vendor power supply cord is equipped with a resettable Ground Fault Circuit Interrupt device (GFCI). Care should be taken when handling the GFCI module. Damage may occur if dropped onto a hard surface. The GFCI unit has an LED light to let you know that the device is working properly. If the GFCI cannot be reset or if the GFCI unit trips immediately after being reset, a replacement cord may be necessary.
- 4. Verify the machine is level with the included bubble level.

Contact Fastcorp service at (888) 441-3278.

SHIPPING BRACKETS

- The DIVI Vendor makes use of a shipping bracket and tie wraps to secure the robot arm during transportation. It is necessary to install the bracket each time the machine is transported to or from location.
- Freezer Lid Shipping Bracket Removal Instructions:
 The Freezer Lid Hold Down makes use of a red cable tie to prevent the Freezer Lid from opening during shipping. The cable tie wraps around the Freezer Closed Switch Actuator Plate and the Freezer Closed Switch Mounting Bracket on the right front of the Freezer. Carefully cut the red cable tie and manually lift the freezer lid to make sure there are no obstructions.

TURNING ON THE MACHINE

NOTE: Before turning on the machine, make sure the shipping brackets have been removed. The Robot Arm should move freely in every direction and the Freezer Lid must open and close without restriction.

A. POWER BOX

The rear left power box is the primary power source for the vendor. It is located on the inside cabinet wall behind or to the left side of the Freezer (depending on freezer model.) There is an ON/OFF Power Switch located on top of the power box that supplies power to the freezer, and the power supply located to the left of the Product Delivery Bin on the bottom of the Front Door. The Power Box has 1 input (power cord) and 2 outputs (freezer and power cord to the door power supply.) It also has either (early machines) a fuse or 2 circuit breakers.

B. POWER SUPPLY

The power supply is located to the left of the product delivery bin on the bottom of the Front Door. The power supply has an ON/OFF switch located on the right side of the box which supplies power to the VMC, the robot arm, the digital display Currency/Telemetry systems (if equipped), and the vacuum.

- a. To turn on the machine, first turn "ON" the power box switch behind the freezer. Then turn "ON" the door power supply switch (left of the delivery bin on the bottom of the door). The Freezer and lamps will turn on, the Robot Arm will present itself at the Delivery Position, the Display will light up, and the machine will be ready for Programming.
- b. Press the VAC button then scroll to Service Menu Option 13 to set the Health Timer so that the machine can be set up before the Freezer cools down. See the Service Menu section for instructions.

TRANSPORT, UNPACKING AND INITIAL SETUP INSTRUCTIONS

CURRENCY SYSTEMS

The DIVI Vendor supports only 24 - 34 volt Multi-Drop Bus (MDB) Money Systems.

The DIVI Vendor is compatible with any MDB compliant, level 2 or higher coin mechanism or bill validator as well as most card readers and telemetry systems.

The DIVI vendor leaves the factory pre-wired with a DEX port located inside the door near the left side of the window frame. To collect sales data using the DEX port, insert the plug from your DEX handheld into the port and pull out the pin on the 3 position service/door/interlock switch. The door switch is located below the threads of the T-Handle bolt on the back of the door. It is necessary for the machine to have a unique identification number entered into the serial number field on the Service Menu Option 17) Machine Serial Number (defaults to the VMC Board serial number). Your DEX interrogator may need to be initialized prior to the first read to allow the vendor to be recognized.

INSTALLING PERIPHERALS



Coin and bill accepters as well as card readers and other MDB peripherals should be installed and their function tested prior to placing the vendor into service. Always <u>turn OFF the Power Supply</u> rocker switch (bottom of door under Delivery Bin) before plugging or unplugging MDB peripherals. Hot plugging MDB devices will result in a damaged control board.

COIN MECHANISM/CHANGER

- The Coin Changer mounts onto (3) screws on the back of the door inside the security door.
 Make sure that all (3) mounting screws are tightened. The coin changer harness can be plugged directly into the MDB harness (VMC location J8 MDB) or it can be plugged into the Bill Acceptor Y-Harness.
- Fill all coin tubes until a coin from each tube overflows into the cash box. Test the operation of the coin changer after filling the tubes.
- If the display reads, "Machine Must Be Set Up," then the robot arm must be calibrated. Follow the instructions for calibrating the machine.
- While testing, push the coin return to verify that coins will dispense into the coin return cup.
- Coins may be dispensed by pressing the payout keys on Service Keypad or by going to Service Menu Option 18) Fill / Dispense.

BILL ACCEPTOR

Remove the lower block-off plate from the door by removing the four #8 nuts with an "1/32" socket wrench. Install the Bill Acceptor onto the studs using the four #8 nuts that had previously held on the block-off plate. Some bill validators may require the use of stud extensions. These are usually supplied with the bill validator and should be used only if necessary. Tighten all four nuts to secure the assembly, then turn ON the vendor and test for proper operation.

CARD READERS AND TELEMETRY SYSTEMS

There are many card readers and telemetry systems available. Fastcorp has tested many of these devices to insure compatibility with our software. On occasion, a new product will be introduced which may require further testing to insure compatibility. If you have any questions relating to your MDB peripherals, please call Fastcorp Technical Service.

Card Readers may be installed to the left of the bill acceptor. Remove the left block-off plate and install on the four available studs using the four block-off plate #8 retainer nuts and an "1/32" socket wrench.

NOTE: Store the block off plates in a safe place for future use.

FREEZER MAINTENANCE

VIEWING FREEZER TEMPERATURE

While in Vend Mode (indicated by "Please Insert Money" on the Digital Display), press the "*" key on the Customer Keypad. The current temperature will be displayed on the Digital Display.

TEMPERATURE ADJUSTMENT:

Depending on the freezer model, some machines have adjustable temperature controllers.

A. STANDARD MACHINES

If available, the temperature may be adjusted by turning the Thermostat Dial counter clockwise to bring the freezer temperature colder and clockwise to bring the temperature warmer. Two to Three hours after powering up the Vendor, the temperature inside the Freezer should drop to about – 10°F / -23°C. The operating temperature for the standard ice cream and food vendor will vary based on the prevailing temperature at the machine. Typically the operating range should be between -5°F/-20°C and -15°F/-26°C.

B. EXTREME COLD MACHINES

Extreme cold machines should reach operating temperature approximately 4 hours after being turned on. Typically, operating temperature ranges between -30 °F / -34°C and -40°F / -40°C. The temperature may be viewed by pressing the "*" key while in Vending Mode (Please Insert Money).

SERVICING THE FREEZER

The standard chest freezer inside the DIVI does not self-defrost. The freezer chest requires maintenance when ice begins to affect the vend cycle, product loading, or closing the freezer lid. The refrigeration system does not require any maintenance. Depending on the location's moisture level (relative humidity) and frequency of operation, ice may accumulate inside the Freezer above the level of the bins.

Fastcorp recommends keeping the plastic ice scraper (provided with the machine), and a 9" by 11" piece of cardboard or plastic inside the machine. Place the plastic under the area to be scraped to prevent the ice from falling into the bins. This entire process should only take a few minutes. Wipe the area with a clean dry towel after the frost has been removed. This process should be repeated each time the Vendor is serviced to prevent large scale ice buildup that will require a time consuming freezer defrost.

DEFROSTING THE FREEZER



Do not use mechanical devices or other means to accelerate defrosting other than the included ice scraper. Failure to comply could result in freezer damage, fire, explosion, and death.

- Depending on usage, temperature, humidity, and maintenance practices, frost will accumulate. It will eventually become necessary to defrost the freezer.
 - a. Press the "LOAD" button, allow freezer to open completely, then turn OFF machine and unplug the vendor.



NOTE: Take a picture or verify that a bin plan-o-gram is correct to your freezer / bin layout.

- Remove all of the bins. Knock ice off the bins as best as possible and set aside to dry thoroughly.
- Place the product in an appropriate holding container that will keep product at its correct temperature.
- d. Scrape off and remove ice from the freezer chest.
- e. Drain freezer water into a pan. Plugs are located on the inside freezer floor and outside front of the freezer. A wet / dry vac or a sponge may be used depending on the volume of water.
- Ensure freezer is completely clean and dry before proceeding. Wet bins will deteriorate quickly and will freeze in place. Install bins in their proper locations, turn on the freezer, and load product after the freezer reaches operating temperature.
 - Test-vend each selection to verify accuracy of the robot. Edit locations as necessary.
- Under most conditions, the DIVI Vendor may lose power for up to 12 hours without compromising the quality of the product if the freezer remains closed. If freezer temps reach unsafe levels, the health sensor will activate and the machine will be placed out of order.

HEALTH SENSOR ACTIVE GUIDELINES

When the machine is placed out of service with a Health Sensor Active, the product must be inspected before the machine can be reset and placed back in operation. Often only the top two or three items in each bin will have melted. If the machine loses power for an extended period of time, the product must be discarded and the freezer and bins will have to be cleaned before the machine can be placed back in service. See sanitation and food safety info.

FREEZER MAINTENANCE

ICE CREAM AND FOOD MACHINES

The Health Sensor will go active and the vendor will go out of service if the freezer maintains a temperature warmer than $0^{\circ}F$ / $-18^{\circ}C$ for a period in excess of 15 minutes.

EXTREME COLD MACHINES

The Health Sensor will go active and the vendor will go out of service if the vendor maintains a temperature warmer than -25°F / -32°C for a period in excess of 15 minutes.

ERROR RECOVER

When a machine is out of service, the error message may be retrieved by pressing the "#" key. If the error is Health Sensor Active, the machine will not accept money until the error has been reset and the machine has reached operating temperatures.

VAC KEYPAD SECURITY FEATURE

The Service Keypad "VAC" button must be pressed to release the Keypad Security Feature and allow normal use.

SOLD OUT BINS AND BIN LOAD ERRORS

Sold out bins and bin load errors will trigger a display when the machine door is opened at the time of service. Press "#" to scroll through individual messages or press "*" to exit to 1) Change Price menu. Press the "VAC" button to release the keypads. Press "Load" (freezer lid will open, robot arm will move to the rear loading position) and then press "Close" (the Robot Arm will return to the delivery position) to clear the error and reset the machine. "Load" then "Close" will signal the VMC that the machine has been filled. Load / Close will automatically set a Health Sensor delay for 75 minutes.

HEALTH SENSOR ACTIVE

A health sensor active code along with an out of service machine signifies that a machine powered up with the freezer above its maximum allowable safe temp. This usually signifies that the power to the machine was interrupted for a prolonged amount of time. The product / food in the freezer may be spoiled and must be inspected before restoring the machine into service. Spoiled food must be discarded.

Errors are cleared by pressing the VAC button and # when the door is opened. Press "Load" (freezer lid will open, robot arm will move to the rear loading position) and then press "Close" (the Robot Arm will return to the delivery position) to clear the error. If the machine must be operated for testing purposes, the Health Sensor may be bypassed for up to 4 hours. See Programming Instructions, Service Menu Option #13) Health Timer. See also sanitation and food safety info.

A. VENDOR ERRORS

All DIVI Vending Machine errors other than Health Sensor Active are automatically cleared as soon as the machine door is opened or power to the machine is cycled off and back on.

B. VAC - ERROR LOG

An error history can be accessed by pressing the VAC button on the Service Keypad. Up to ten errors are stored in the Error Log with a time and date stamp. Entries may be viewed in reverse order of occurrence by pressing the "VAC" key. Each time the "VAC" key is pressed, the log will scroll back one entry. Press "*" to exit.

FREEZER MAINTENANCE

PRODUCT DISPLAY SYSTEM

- Determine what products will be vended and what the sale price will be.
- Access the Display Card Holder by sliding it up and out of the light housing.
 - Install the Price Stickers and then the Display Cards in the appropriate positions and on the display card holder.
 - Slide the display card holder in front of the light housing when done.

BIN SETUP/ PLAN-O-GRAM

The DIVI Vendor utilizes a bin system to hold product. The bin system is made up of a number of bins of various shapes and sizes. The type and size of the bins depends on the size and shape of the products being vended. Every machine comes pre-configured with a specific bin layout or bin plan-o-gram. The configuration of the bin plan-o-gram inside your machine may be modified to accommodate different size bins as your product line changes. If you have any questions relating to modifying your plan-o-gram contact the Fastcorp service department.

PRODUCT LOADING

- Press "LOAD" on the Service Keypad. The Freezer Lid will open and the Robot Arm will move to the rear cabinet loading position. Bins may be filled without being impeded by the Robot Arm.
- ii. Press "CLOSE" on the Service Keypad when bins have been filled. The Robot Arm will return to the front delivery position and the Freezer Lid will close. The Health Timer will automatically be set to 75 minutes to allow the freezer to recover from any possible temperature loss due to loading.
- iii. "Load" then "Close" will signal the VMC that the machine has been filled. Load/ Close will automatically set a Health Sensor delay for 75 minutes.

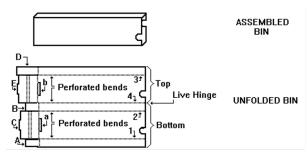


It is important to program the appropriate bins as short bins. Short and tall bin locations will vary based on the specific freezer in your machine. Bin height dictates how far down the picker tip will travel to get product. The short bins are shaded in Fig (IC plan-o-gram). If short bins are programmed as tall bins, the robot will make contact with the bottom of the bins and attempt to pull them out, resulting in possible machine failure (out-of-order). If tall bins are programmed as short bins, the machine will only vend product based on the height of a short bin. The robot will leave product at the bottom of the tall bin and flag it Out-Of-Product. The vending travel limits on the Up/Down axis can be adjusted by going to the Service Menu #21 Up Down Travel Limits and follow the prompts.

PRODUCT DISPLAY SYSTEM

FIGURE 1 SAMPLE PLAN-O-GRAM (AERIAL VIEW)

BIN ASSEMBLY DIRECTIONS



- 1. Place the unfolded bin on a flat surface "face up" so that the creases on Flaps C and E are visible.
- 2. Pre-crease Perforated Bends 1,2,3, and 4 by folding them over completely in both directions so the four bends are not stiff.
- 3. Remove rectangular corrugated pieces from slots a and b.
- 4. Fold Flaps A and B up at a 90° angle and inwards so that they are "above" Slot A, and the "sides" of the bottom of the bin are formed.
- 5. While holding Flaps A and B in place, fold Flap C over Flaps A and B and down, so that the tab fits in Slot A. The bottom of the bin is now complete.
- 6. Fold Flap D up at a 90° angle and inwards so that it is "above" Slot b, and the "side" of the top of the bin is formed.
- 7. While holding Flap D in place, fold Flap E over Flap D and down, so that the tab fits in Slot B. The top of the bin is now complete.
- 8. Fold the top of the bin over the bottom of the bin along the live hinge to complete the bin. Adjust the bin for squareness.

LOADING

- Product should always be level inside the bins. Alternate product direction when loading cone bins.
- 2. Wrapper seams must always face down.

- 3. Styrofoam spacers should be used to prevent small products from shifting in the bins.
- 4. No product should have more than 1/4"-inch of space from left to right and from front to back within each bin.

GENERAL CONSIDERATIONS

- Fastcorp recommends that a bin plan-o-gram form be filled out and attached to the inside of the machine. The product name, price and bin number can also be written directly on each bin.
 We also recommend that the machine is programmed to leave one product at the bottom of each bin to make it easier for the route driver to match products with a location inside the freezer when servicing the machine.
- Keep a copy of each machine's bin plan-o-gram on file as a reference and as a backup if necessary.
- Each bin can be used as a tall bin or a short bin depending on where it is placed inside the freezer. Short bins are approximately half the height of a tall bin and are located over the compressor. Cut a tall bin at the perforation and it becomes a short bin.
- Always load product from the bottom up so that the oldest product will be vended first (FIFO: First In First Out).
- The standard bin configuration will accommodate most novelty products. Spacers and inserts are provided for products such as ice cream cones, ice cream sandwiches, push-ups, etc. Alternative bin shapes and sizes are available to accommodate most products.
- Always keep an extra set of bins on hand to be used in the event of a meltdown. Bins can be removed and replaced quickly.
- There should not be more than one half of an inch distance from left to right and front to back between the product and the bin. Use smaller bins or proper spacers to ensure consistent product retrieval.
- Fastcorp recommends stacking uneven products with every other one rotated 180° to keep the stack of product stacked evenly and straight.
- Fastcorp recommends placing the best-selling items at the center of the freezer. This shortens the robot travel distance and will reduce vend cycle time.

The machine comes from the factory without any preset selection numbers or bin locations in memory. All information is entered during initial setup and programming.

Programming is menu driven and programming menus are accessed in Service Mode. Simply scroll through the menus until the desired function is reached. Once inside a menu function, the computer will prompt the user to enter the required information.

The machine enters Service Mode every time the cabinet door is opened.

- PRESS THE VAC BUTTON ON THE SERVICE KEYPAD
 TO DISABLE THE SECURITY-LOCKING FEATURE
 (DISPLAY READS "KEYPAD IS LOCKED") AND
 ENABLE USE OF THE CUSTOMER KEYPAD.
- Once enabled, press the "*=Next" key on the Customer Keypad to scroll through the Service Menu options. Press the "D" key to scroll in reverse order.
- If the machine is programmed in one location (for example in your warehouse) and transported to another, it is important to re-level the machine at the new location and perform test vends on each selection. Edit bin locations as necessary.

CLOSING THE DOOR

When closing the machine door it is important to NOT over-tighten the T-Handle. Rotate the T- Handle until the Display changes to, "Please Insert Money", then turn the handle one additional revolution and push it in. Over-tightening the T-Handle may result in damage to the T-Handle Assembly and may prevent normal operation.

SERVICE MENU OPTIONS

- 1. CHANGE PRICE: Allows the prices to be changed.
- 2. SALES METERS: Allows sales data to be viewed.
- **3. EDIT SELECTION:** Allows existing selections and bin positions to be edited. Allows bins to be added to existing selections.
- CREATE SELECTION: Allows a selection to be created.
- **5. DELETE SELECTION:** Allows a selection to be deleted.
- **6. SELECTION NUMBERS:** Allows programmed selection numbers to be viewed. (Use to check for erroneous selections).
- SET DATE & TIME: Allows date and time to be set or viewed.
- AUTO VENDS: Used internally to cycle-vend machines under test.

- SERVICE PHONE #: Allows service phone number to be set. The number is displayed when the machine is out- of-order. (Do not use Fastcorp's phone number).
- 10. SALES PIN CODE: Allows PIN code to be set and viewed for machine auditing. # 2) Sales Meters may be accessed from outside the machine without opening the door.
- **11. VEND BLOCK:** Allows the machine to be disabled for up to 4 predetermined periods of time.
- **12. VEND BLOCK PIN CODE:** Allows a PIN code to be set to access the vend block function without opening the door.
- **13. HEALTH TIMER:** Suspends Health Control for 1,2,3 or 4 hours; Set freezer temperature scale to display in either Fahrenheit or Centigrade; Set mode for Health Sensor: NAMA Ice Cream, chilled, super cold, frozen food, NAMA refrigerated, MMM.
- **14. PROGRAM VERSION:** Displays version of firmware installed on VMC.
- 15. DISPLAY LANGUAGE: Allows the programmer to choose the language displayed on the screen. Choose from English, German or Spanish. One additional language may be added to memory if necessary.
- **16. LINE MODE:** Shortens vend time by leaving the freezer lid open between vends. Lid opens when currency has been detected. Lid will close if there is no activity for 20 seconds.
- **17. MACHINE SERIAL NUMBER:** Allows the programmer to enter up to a 10-digit serial number for machine identification during DEXing.
- **18. FILL / DISPENSE:** Allows coins to be dispensed from tubes while displaying a coin count.
- **19. TOKENS & COUPONS:** Allows coupons and tokens to be recognized as free or valued vends and records sales in appropriate DEX fields.
- **20. FIELD TEST:** Allows the machine to run in a diagnostic mode to allow for quick troubleshooting.
- 21. UP/DOWN TRAVEL LIMITS: This feature allows the customer to adjust how deep the Picker Tip will descend into both tall and short bins.

NOTE: Increasing the number will cause the Suction Tip to travel further into the bin. Changing this value by 5 represents a change in travel of 1.

22. VERIFY ALL BINS: Automatically moves robot over each bin position. Allows user to verify and edit bin programming.

MDB SETTINGS: Allows specific settings for currency system:

Force Vend: Customer cannot use vendor for the purpose of changing bills. If a bill is inserted and the coin return button is pressed, it is ignored. A selection must be chosen. Only exception is when the selection is sold out.

No Cheat: Money is not accepted if there is a possibility where the customer will be short-changed. Bills are not accepted if there is not adequate change for a failed yend.

Change Bill: Similar to forced vend but focuses only on bills that have been accepted, whereas force vend is also concerned with coins. Bill will be returned if coin return is pressed.

Hold Lost Credit: Funds that could not be returned to a customer during a vending are available for another transaction.

Multi Vend: Change is not automatically returned after a transaction, but held for another transaction. Press the coin return button to receive your change.

Lev 2 Coin Mech: When set to "N" (default), the coin mechanism will determine optimum change. If set to "Y", the VMC will determine what coins to give back as change, regardless of the capabilities of the coin mechanism. Power to the VMC must be cycled off and back on after changing this setting.

Instant Reveal: When set to "Y" (default), a stored value cashless device can receive revaluation credit as soon as coin or cash is inserted into the vendor. When option is set to "N", revaluation occurs when a major action is taken such as pressing the coin return. This option is only necessary for older cashless systems where the number of revaluations per credit device is limited.

SOFT DROP: Allows enabling and setting the "Soft-Drop" feature that lowers the product before it releases it into the product chute. Delay time is how long the picker tip waits at delivery position to allow vacuum to dissipate and product to release from picker tip.

CALIBRATING THE ROBOT ARM

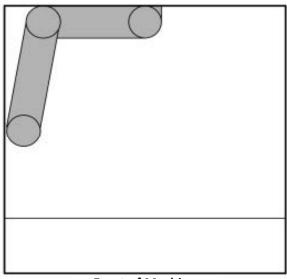
If the message on the Display reads, "MACHINE NOT SET UP", you will need to calibrate the robot arm. This typically only appears when the VMC or Robot Arm is first calibrated to the cabinet. Scroll to menu # 4) Create Selection. Press the "#" key to create a selection. You will be prompted to "SET ARM AT LEFT WALL". Position the arm shown in figure 9A. Press the "#" key to accept. Display will show "SELECTION STORED"

Now you will be prompted to "SET ARM AT DELIVERY." Position the arm as shown in figure 9B. Presst he "#" key to accept. Display will show "SELECTION STORED" Display should return to "4) CREATE SELECTION" You may now program your selections as described in the "PROGRAMMING YOUR MACHINE" section.

Figure 9A

Minimum

Position

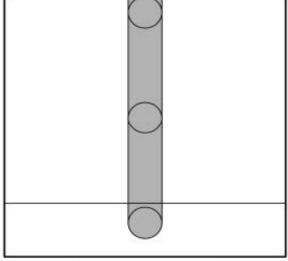


Front of Machine

Figure 9B

Delivery

Position



Front of Machine

RE-CALIBRATING THE ROBOT ARM

If the Robot Arm or VMC Board needs to be upgraded or changed, the Robot Arm calibration will need to be erased and re-calibrated. The arm may be re-calibrated without losing programmed information, but take care to follow the instructions, precisely.

- 1. Press the VAC button on the Service Keypad to release the security locking feature.
- Go to the Service Menu and press the "*" key repeatedly until the display reads,
 "4) Create Selection."
- 3. Press and hold the Reset button. The VMC will beep as you hold the Reset button. The display will immediately read, "this forces re-setup" but do not release the rest button yet.

THIS FORCES RE-SETUP		
*-NEXT D-BACK #-Yes		

4. Continue holding the Reset button. The VMC will continue to beep. The display will change to:

ARM UNCALIBRATED		
*-NEXT	D-BACK	#-Yes

- Release the reset button now immediately and press the #-Yes button. You will be prompted to "SET ARM AT LEFT WALL". Position the arm shown in figure 9A in the previous section. Press the "#" key to accept. Display will show "SELECTION STORED."
- Now you will be prompted to "SET ARM AT DELIVERY." Position the arm as shown in figure 9B in the previous section. Press the "#" key to accept. Display will show "SELECTION STORED."

NOTE: If at anytime during the re-calibrating process, the reset button is released prematurely before the display changes to "arm uncalibrated," it's best to turn off the machine and start over then chance erasing the computer memory.

ERASE ALL PROGRAMMED INFORMATION

On occasion it may become necessary to erase all programmed and sales data.

- 1. Press the VAC button on the Service Keypad to release the security locking feature.
- Go to the Service Menu and press the "*" key repeatedly until the display reads, "4) Create Selection." Press and hold the Reset button. The VMC will beep as you hold the Reset button. The display will immediately read:

THIS FORCES RE-SETUP		
*-NEXT	D-BACK	#-Yes

3. Continue holding the Reset button. The VMC will continue to beep. The display will change to:

ARM UNCALIBRATED		
*-NEXT	D-BACK	#-Yes

4. Continue holding the Reset button. The VMC will continue to beep. The display will change to:

PRODUCTS CLEARED		
*-NEXT	D-BACK	#-Yes

- Release the reset button and press the #-Yes button. You will be prompted to "SET ARM AT LEFT WALL." Position the arm shown in figure 9A in the previous section. Press the "#" key to accept. Display will show "SELECTION STORED."
- Now you will be prompted to "SET ARM AT DELIVERY." Position the arm as shown in figure 9B in the previous section. Press the "#" key to accept. Display will show "SELECTION STORED."
- You may now <u>program your selections</u> as described in the "PROGRAMMING YOUR MACHINE" section.

SERVICE MENU

CHANGE PRICE

Changes the Price of programmed selections.

Display		Programming Instructions		
1) Change Price		a.	Press the # = Yes key to enter Menu Option	
* = NEXT	D=Back	#=Yes	b.	Enter the selection number
E	Edit Selection		c. Type over the price. Press #	
# - Exit				to accept
* = Exit	* = Exit			
A1 Price: 1.00		d.	Press the # = Accept key to enter the price change	
* = Exit	* =	Exit		

SALES METERS

Provides access to Total and Resettable Meters.

Total Meter displays Total Sales data in units sold and currency. The Resettable Meter displays total sales data for each selection in units sold and currency. Resettable Meter sales data may be cleared and reset to 0 after each service visit.

Display			Programming Instructions	
2) S * = Next) Sales Meters D = Back # = Yes		a.	Press the #=Yes key to enter Menu Option.
Total	Vends * = Nxt 975		b.	Total Meter count of units sold. Press *=Nxt to continue.
	Value * = Nxt 1575.30		c.	Total Meter count in currency. Press *=Nxt to continue.
Selection 25	A1 40.00		d.	Press the * key to scroll through selection numbers to view sales data.
Selection 25	A2 72.50		e.	Press the * key to scroll through selection numbers to view sales data.
Reset Vends	* = Nxt 225		f.	View Total Resettable units sold. Press *=Nxt to continue.
Reset Vends	* = Nxt 375.25		g.	View Total Resettable Sales in currency. Press *=Nxt to continue.
Reset Card	* = Nxt 115.50		h.	View Total Resettable Sales in Credit Card. Press *=Nxt to continue.
Clear All OK?	* = Next	# = Yes	i.	Press # to clear Resettable Meters and continue.
Reset	Reset tables Cleared		j.	Long beep and Resettable Meters will be reset to 0.

EDIT SELECTION

Allows you to change the price, edit bin location or add multiple chained bins to a single selection.

Display			Programming Instructions		
3) EDIT SE	3) EDIT SELECTION		Press the #=Yes key. The robot will go to the delivery point and the freezer		
* = Next D =	Back # = Yes		lid will open.		
ENTER SELECT # # - Exit		b.	Enter selection number to be edited.		
A1 Price: *=Exit	1.00 #=Accept	c.	Type over the price and press the "#" key.		
A1 *=Cancel	Move The Robot #=Accept	d.	Adjust the position of the robot over the bin. Press # to accept.		
Bin Height: *=Change	Tall #=Accept	e.	Select Tall or Short by pressing the *key. Press # to accept.		
More Bins? *=No #=Yes		f.	Press the #=Yes key to add additional (chained) bins or press * to exit menu.		

CREATE SELECTION

Create new selections, with the ability to chain multiple bins to a single selection.

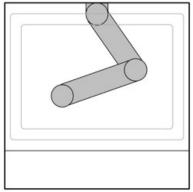
WHEN POSITIONING THE ROBOT OVER A BIN, THE ELBOW SHOULD POINT TO THE OPPOSITE SIDE OF THE FREEZER FROM THE BIN.

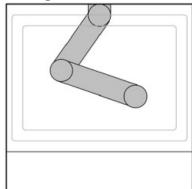
EXAMPLE- IF THE BIN IS LOCATED ON THE LEFT SIDE OF THE FREEZER THE ROBOT ELBOW SHOULD POINT TO THE RIGHT SIDE AND VICE VERSA. BINS NEAR THE CENTER OF THE FREEZER SHOULD BE PROGRAMMED WITH THE ELBOW POINTING TO THE RIGHT SIDE AND VICE VERSA.

ROBOT ARM POSITIONS FIGURE 10

Figure 10

Vending A Product from Vending A Product from the Left Side of the Freezer the Right Side of the Freezer





Front of Machine

Front of Machine

Display			Programming Instructions
4) CREATE SELECTION * = Next D = Back # = Yes			Press the #=Yes key to enter Menu Option.
ENTER SELECT # A1 # - Exit		b.	Enter selection number to be created.
A1 Price: *=Change	1.00 #=Accept	c.	Type in the price and press the # key. The robot will go to the delivery point and the freezer lid will open.
A1 *=Cancel	Move The Robot #=Accept	d.	Move the robot over the bin. This can be done manually or by using the service keypad. Press # key to save the bin location.
Bin Height: *=Change	Tall #=Accept	e.	Select Tall or Short by pressing the * key. Press # to save this setting.
More Bins? *=No #=Yes		f.	Press the #=Yes key to add chained bins. Press * to exit.

DELETE SELECTION

Display	Programming Instructions
5) Delete Selection * = Next D = Back # = Yes	a. Press the # = Yes key to enter the menu Option.
Delete Selection #: A1 (All selection) * = Exit D = Del # = Next	b. Press the # = Next key to scroll through selection numbers.Press the D = Delete key to choose the selection.
Delete Selection # A5 OK? * = No # = Yes	c. Press # = Yes key to delete the selection.
Delete Selection # A5 * = Exit * = Back # = Next	d. Momentary display.

SELECTION #S

View programmed selection numbers.

Display	Programming Instructions
6) SELECTION #s * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
Programmed: A1 *=Exit #=Next	b. Press the #=Next key to scroll through programmed selection numbers. Press *=Exit to exit menu.

SET DATE & TIME

Set or view the current date and time.

Display			Programming Instructions
7) SET DATE & TIME * = Next D = Back # = Yes			Press the #=Yes key to enter Menu Option.
TIME - 10: *-EXIT #-		b.	Enter a 4-digit time in AM/PM format. Press #=SAVE.
TIME - 10:35 1-AM 2-PM			Select "1" for AM or "2" for PM.
TIME 10:35AM			The programmed time is momentarily displayed.
DATE *-EXIT	08/19 #-SAVE	e.	Enter month and day in a 2-digit numerical format.
YEAR *-EXIT	10 #-SAVE	f.	Enter the year in a 2-digit format. Press #=SAVE.
SAVED			Time and Date is saved.

AUTO VENDS

Used internally to cycle-vend machines under test. Machine will automatically cycle through all programmed selection numbers repeatedly at 3 minute intervals until option is turned off. After Auto Vends is enabled, pull Service Switch "out." Push the Service Switch "in" to stop. Go back to 8) Auto Vends and follow instructions to turn Auto Vends "OFF."

Display			Programming Instructions
8) AUTO VENDS * = Next D = Back # = Yes			Press the #=Yes key to enter menu option.
AUTO VENDS *-CHANGE	. =		Press *-Change to scroll from "N" to "Y."
AUTO VENDS *-CHANGE	Y #-EXIT	c.	Auto Vends is "ON". Press # -EXIT menu. Pull out button on the Interlock/Service Switch to begin cycle. Press "Load"
*-EXIT	#-SAVE		button to reduce time interval at 10 second increments.
AUTO TEST IS ON			Momentary display.

SET SERVICE PHONE #

Enter, update, or view your service phone number. This programmed number will appear on the display screen in the event that the machine goes out-of-order.

Display	Programming Instructions		
9) SET SERVICE PHONE # * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.		
Phone (###) ### - #### * save ABCD=() # ex	b. Type in service phone number. Use the "ABCD" code to format your service phone number. A=, (B=), C=SPACE, D= -		
Phone (555) 555 - 1234	c. Press *save to save your service number and exit.		

SALES PIN CODE

View or change the PIN code that will allow access to Sales Meters without opening the door. While in "Please Insert Money" mode, Press # * and the four numbers you selected.

Display	Programming Instructions		
10) SALES PIN CODE * = Next D = Back # = Yes	a. Press the #=Yes key to view or change sales pin code		
Sales PIN: #*1234 *-EXIT #-SAVE	b. Sales Pin Code is factory set at #*1234. Use factory setting or type over four new digits and press the #-Save key. Type this code when you are in "Please Insert Money" mode to gain direct access to Sales Meters.		
SAVED	c. Press # to save the new PIN		

HEALTH TIMER

This setting allows the health sensor to be bypassed for a short time. Secondary options are display mode (°F or °C) and Health control mode. A test option is available for NAMA and for Health inspector's use.

NOTE: Health Timer resets to 0 if power is cycled off and then on, again.

Display	Programming Instructions
13) HEALTH TIMER * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
HEALTH TIMER: OHrs * = Next D = Back # = Yes	b. Press *=Next to scroll from 0 to 4 hours.
HEALTH TIMER: 2hrs * = Next D = Back # = Yes	c. Press #=Yes to start timer.
DISPLAY FAHRENHEIT * = Next D = Back # = Yes	d. Press * to select Fahrenheit or Centigrade. Press # to accept.
NAMA Ice Cream * = Next D = Back # = Yes	 e. Choose Health Control Mode. Press *=Next to scroll: NAMA Ice Cream (Default) Chilled Super Cold Frozen Food NAMA Refrigerated MMM Then press #=Yes

PROGRAM VERSION

Shows the date and software version installed.

Display	Programming Instructions
14) PROGRAM VERSION - * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
FASTCORP GEN 4 UNIVERSAL vX.XXY	b. Program version (X.XX) and revision (Y) are displayed.

DISPLAY LANGUAGE

Allows the programmer to change the language of all external text and all programming. English, German and Spanish languages reside in the software. One additional language translation may be added to the existing software subject to availability.

Display	Programming Instructions	
15) DISPLAY LANGUAGE * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.	
* = Next D = Back # = Yes	b. Press *=Next to scroll through language choices. Press #=Yes to accept.	

LINE MODE

Line mode shortens the time between vends by holding the freezer door open between vend cycles. If there is no activity for 20 seconds the Freezer Lid will close. (Default setting is OFF).

Display	Programming Instructions
16) LINE MODE * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
LINE MODE: ON * = Next D = Back # = Yes	b. Press the *=Next key to scroll between options.c. Press the #=Yes key to confirm the selection.

MACHINE SERIAL NUMBER

Program the serial number of the vendor into the VMC memory so that an external data retrieval unit (DEX) can include the serial number when uploading sales information. Up to 10 digits are allowed. Defaults to VMC Board serial number.

Display			Programming Instructions
17) Machine Serial # * = Next D = Back # = Yes			Press the #=Yes key to enter Menu Option.
SN *-Exit	000000000 #-Save	b.	Enter 10 digit ID number (asset #, machine serial #, etc.). Press #-Save.
MACHINE SN S	SAVED	c.	Save serial number is confirmed.
USE FOR CHANGER SN?			Select 1 to assign this number to coin changer. Select 2 if no.
1-YES	2-NO	e.	Select option 1 or option 2.

FILL / DISPENSE

Allows coin count to be viewed for up to 5 coin changer tubes. Coins may be dispensed from tubes 1 through 6.

	Display			Programming Instructions
FIL	L / DISPENSE			Dross that - Vas kouta antar Manu Ontion
* = Next	D = Back	# = Yes	a.	Press the # = Yes key to enter Menu Option.
SELECT T	SELECT TUBE 1 TO 5 # = EXIT		b.	Enter any tube number 1 to 5 to dispense a coin and view coin count.

TOKENS & COUPONS

This allows the machine to recognize coupons and tokens as free vends when the Promotional feature is on. Item and price will be recorded as a free vend in the DEX report.

Display	Programming Instructions
19) TOKENS & COUPONS * = Next D = Back # = Yes	a. Press the #=Yes key to enter menu option.
Tokens / Coupons off *= Change #=Accept	b. Press the "*" key to scroll between "On" and "Off." c. Press the "#" key to accept selection.

FIELD TEST

Enters a diagnostic mode to allow troubleshooting assistance.

Display	Programming Instructions
20) FIELD TEST * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
Press # to Exit Test	 b. Second line displays changes to the position of switches and encoders. c. Move any motor by pressing the associated Service Keypad key. d. Press "VAC" key. The Vacuum Pump will turn on then slowly turn off.
Press # to Exit Test S XXX E YYY	e. Press * key to inspect position sensor values for Shoulder and Elbow Sensors.

U/D TRAVEL LIMITS

This feature allows the customer to adjust how deep the Picker Tip will descend into both Tall and Short bins.

- a. Adjustment scale is in Encoder Pulses. Five Pulses = One Inch.
- b. Increase the number of pulses to go deeper into the bin. Too deep will cause the robot to attempt vending a bin.
- c. Reduce the number of pulses to go less deep into the bin. Not deep enough will leave too much product in the bin.

Display	Programming Instructions
21) U/D Travel Limit * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
Tall Bin 212 * = Next Up/Down #=Acc	b. Press "Up" or "Down" to make adjustments to Tall Travel Limits.
Tall Bin 210 * = Next Up/Down #=A	c. Press #=Acc to accept the new value.
Short Bin 164 * = Next Up/Down #=A	d. Press "Up" or "Down" to make adjustments to Short.
Short Bin 160 * = Next Up/Down #=A	e. Press #=Acc to accept the new value.

VERIFY BINS

Allows user to quickly step the Robot Arm through all programmed bin locations to verify accuracy. Reposition Robot Arm or accept programmed locations as they are and then move on to the next selection.

Display			Programming Instructions
22) Verify All Bins * = Next D = Back # = Yes		a.	Press the #=Yes key to enter Menu Option.
A1 *=Cancel	Move the Robot #=Accept		Position Robot Arm more accurately and / or press #=Accept to accept programmed location. Robot Arm will move to the next programmed location each time # =Accept key is pressed until all locations have been verified.

MDB SETTINGS

Allows user to specify settings for currency system.

- Force Vend Customer cannot use the vendor for the purpose of changing bills. If a bill is inserted and the coin return button is pressed, it is ignored. A selection must be chosen. The only exception is when the selection is sold out.
- No Cheat Bills are not accepted if there is not adequate change for a refund in the event of a failed vend.
- Change Bill Similar to forced vend but focuses only on bills that have been accepted, whereas force vend is also concerned with coins.
- Hold Lost Credit Funds that could not be returned to a customer during a vend are available for another transaction.
- Multi Vend Change is not automatically returned after a transaction, but held for another transaction or until coin return is pressed.
- Lev 2 Coin Mech When set to "N" (default), the coin mechanism will determine optimum change. If set to "Y", the VMC will determine what coins to give back as change, regardless of the capabilities of the coin mechanism. Power to the VMC must be cycled off and back on after changing this setting.
- Instant Reveal When set to "Y" (default), a stored value cashless device can receive revaluation credit as soon as coin or cash is inserted into the vendor. When option is set to "N", revaluation occurs when a major action is taken such as pressing the coin return. This option is only necessary for older cashless systems where the number of revaluations per credit device is limited.

Displa	ау	Programming Instructions
23) MDB S * = Next D = B	O	a. Press the #=Yes key to enter Menu Option.
Force Vend *=Change	N #=Accept	b. Press *=Change to change setting and # to accept choice.
No Cheat *=Change	Y #=Accept	c. Press *=Change to change setting and # to accept choice.
Change Bill *=Change	N #=Accept	d. Press *=Change to change setting and # to accept choice.
Hld Lost Crdt *=Change	Y #=Accept	e. Press *=Change to change setting and # to accept choice.
Multi-Vend *=Change	N #=Accept	f. Press *=Change to change setting and # to accept choice.
Lev2 Coin Mech *=Change	N #=Accept	g. Press *=Change to change setting and # to accept choice.
Instant Reval *=Change	Y #=Accept	h. Press *=Change to change setting and # to accept choice.

SOFT DROP

Allows the picker tip to lower the product before it is released into the Delivery Bin. The release height may be adjusted and Soft Drop may be turned "ON" or turned "OFF".

Display	Programming Instructions
24) Soft Drop * = Next D = Back # = Yes	a. Press the #=Yes key to enter Menu Option.
Use Up / Down Keys *=Turn Off #=Accept	b. Use Service Keypad up/down keys to adjust soft drop level and press #= Accept.c. Press * to turn function "OFF."
Saved *=Turn Off #=Accept	a. New Soft Drop release height is saved.
Press # to accept	b. Use service keypad to adjust delay setting before hose retracts.

INSTRUCTIONS TO FLASH UPDATE DIVI FIRMWARE

The DIVI firmware provides many upgrades that have enhanced the functionality and versatility of the DIVI Vendor. More notable additions include the ability to:

- Load a machine configuration from a Micro SD card
- Save a machine configuration to a Micro SD card
- Load new Firmware from a Micro SD card
- Save DEX sales data to a Micro SD card

If the user selects "Load New Firmware", the firmware will automatically save a copy of the existing programming configuration before starting the firmware upgrade. Once the firmware upgrade is complete, the new firmware will automatically look to see if a programming configuration had been saved and will restore that configuration into its operational memory.

If it is necessary to save a bin configuration or DEX data to a Micro SD card, the naming convention used is similar to that once used in cell phone technology for texting and saving phone numbers:

International	1	2	3	4	5	6	7	8	9	0
Standard		ABC	DEF	GHI	JKL	MNO	PQRS	TUV	WXYZ	

Fig. 12 Phone Dial Pad



To name a configuration, "BINS":

- 1. Press the number 2 twice = B
- 2. Press the number 4 three times = I
- 3. Press the number 6 twice = N
- 4. Press the number 7 four times = S

If you make a mistake, use the * key to scroll backwards and clear an entry.

Although DEX sales data remains untouched throughout the program upgrade process, the user should manually save a copy of DEX sales data to the Micro SD card before upgrading the firmware.

INSTRUCTIONS TO UPDATE FIRMWARE NECESSARY TOOLS AND COMPONENTS:

MICRO SD CARD - 1GB TO 16GB.

- 1. Open the DIVI machine door.
- 2. Open the inner door located to the left of the window opening on the inside of the door.
- The VMC Board is located at the top of the opening and the Digital Display Board is located directly below the VMC. Unlatch the right side of the Display Board and flip it around so that the display may be viewed from the back of the door.
- 4. Remove the Micro SD card from its SD adapter and carefully insert it into the metallic slot located on the upper right corner of the VMC board.

NOTES -

- 1. The Micro SD card should be inserted straight down into the slot.
- 2. The contacts on the Micro SD card should face away from you.
- 3. The lettering on the card will be facing you.
- 4. There should be an audible "click" when the card is seated.
- 5. If the card does not drop smoothly into the slot, remove and retry.

DO NOT FORCE THE MICRO SD CARD INTO THE SLOT

SAVE BIN CONFIGURATION AND DEX FILES

The Display will scroll between the options on the Micro SD Card menu:

- A. Load Config.
- B. Save Config.
- C. Load Firmware
- D. Save DEX Sales

Enter "2" to save your current bin configuration. Name your bin configuration appropriately using the naming convention described in the previous section (see Fig. 12). Press "#" to save your bin configuration to your Micro SD card. Push down slightly on your Micro SD card and then let it go. It will pop up slightly in the socket.



Major Program Upgrades may require a Boot Loader Upgrade in addition to the Program Upgrade.

NOTE: Reinstalling the Boot Loader will not have any effect on the Boot Loader or Program Upgrade.

BOOT LOADER UPGRADE

THE MICRO SD CARD SHOULD STILL BE IN THE BOARD SLOT. PRESS DOWN ON THE CARD AS BEFORE. THE DISPLAY WILL SCROLL BETWEEN THE OPTIONS ON THE MICRO SD CARD MENU:

- 1. Micro SD Ready...Load Config.
 - b. Save Config.
 - c. Load Firmware
 - d. Save DEX Sales
- 5. Enter "3" to load new firmware.
- 6. Use the asterisk "*" key to scroll through the contents of the Micro SD card. There may be more than one program version contained on the card. Typically there will also be a boot loader program. Use the "*" key to scroll to the latest or highest number version of the boot loader.
- 7. The boot loader version will be displayed in the "BOOTVxxx.bi2" format, where "xxx" is the numeric revision number.
- 8. Press the pound "#" key. The Display will read:
 - a. PROGRAMMING
 - b. BootVxxx.bi2
- 8. A LED status light on the right side of the board will start flashing rapidly. When the process is complete, the display will read:
 - i. Update success.
 - j. Remove card.....
- 9. Press down gently on the top and let go. The card will slide up slightly in the sleeve. Leave the Micro SD card in the slot. The Display will read:
 - j. BOOT UPDATE xxx
 - k. Done!
 - I. The Display will change to read:
 - m. BOOT LOAD xxx
 - n. Out of Service

PROGRAM REVISION UPGRADE

- The MICRO SD Card should still be in the computer Board slot. Press down on the Micro SD card so that it locks into the slot. The display will show Micro SD ready:
 - b. Load Config.
 - c. Save Config.
 - d. Load Firmware
 - e. Save DEX Sales
- 2. Enter "3" to load new firmware.
- 3. There may be more than one program version contained on the card. Use the "*" key to scroll to the latest or highest number version.
- 4. The program version will be displayed in the "FChXXX.bi2" format. For example, FCh137.bi2.
- Press the pound (#) key to enter the selection.
 The Display will read, "Programming". An LED status light on the right side of the VMC Board will start flashing rapidly. When the process is complete, the display will read, "UPDATE SUCCESS. Remove card..."
- To remove the Micro SD card, press down on the top. It should slide up slightly allowing you to grasp it between your fingers. Lift the SD card straight up and out.

NOTES -

- Power does NOT have to be turned OFF to remove the SD card.
- The vacuum may produce a clicking sound during this procedure. This is normal and is not a concern.
- A major firmware upgrade may require the Robot Arm to be re-calibrated. Please refer to the section, "Calibrating the Robot Arm" in your manual. Scroll to Service Menu Option "4) Create Selection", Press "#" and follow the prompts to calibrate the Robot Arm.
- Your programming data should have been saved to your Micro SD card and automatically reinstalled with the program upgrade. Test vend selections to confirm accuracy. Go to Service Menu 22) Verify Bins to check accuracy and make adjustments if necessary.



If your bin configuration had not been saved, reinsert your Micro SD card into the Daughter Board slot.

- Press 1 to Load Config.
- Choose the name that you used to save your bin configuration.
- Test-vend selections to confirm accuracy. Go to Service Menu 22) Verify Bins to check accuracy and make adjustments if necessary.

ROBOT CONTROL SEQUENCE / ORDER OF OPERATIONS

Control of the Robot Arm and the Freezer proceed through a sequence of states during the course of the vend cycle and until the product is delivered. These states are detailed below:

IDLE STATE

The Robot Arm is at the delivery position with the freezer closed.

VEND CYCLE BEGINS

Money is inserted into the machine and a selection is made. A credit is established and Control issues a request to convert a selection number into a product location.

The Freezer Open Switch and Freezer Closed Switch circuits are inspected. If both circuits are active, an error is declared. Otherwise, Control issues a request to open the Freezer. A seven second timer is set and Control proceeds to the "Freezer Open" state.

VEND BLOCK

Block out vending up to four times per day, seven days per week. Time and date must be entered correctly in SET TIME and DATE programming.

NOTE: When Vend Block is ON, vending is OFF.

Display			Programming Instructions
11) VENI * = Next D =	D BLOCK Back # = Yes	a.	Press the #=Yes key to enter Menu Option.
1 BEGIN *-SAVE	01:00 #-NEXT	b.	Enter the start time for the first Vend Block. Press *=Save to store time.
1 BEGIN 1-AM	01:00 2-PM	c.	Enter "1" for AM or "2" for PM. Display will advance.
BEGIN PI 01:00		d.	Block 1 "on" time is displayed momentarily.
1 END *-SAVE	10:00 #-NEXT	e.	Type the time you want vending to resume and press.
1 END 1-AM	10:00 2-PM	f.	Enter "1" for AM or "2" for PM. Display will advance.
END PE 10:00		g.	Block 1 "off" time is displayed momentarily.
Sunday *-CHANGE	OFF #-NEXT	h.	Press # - Next to scroll through all days, press *- Change to select a day.
SAV	ED	i.	After scrolling through all days to Saturday, display will show that your choices have been saved.
2 BEGIN *-SAVE	12:00AM #-EXIT	j.	Enter the start time for the second Vend Block or press # to exit.

VB PIN CODE

Set or alter the VEND BLOCK option from the outside of the machine without opening the door by using a PIN code.

Disp	olay		Programming Instructions
12) VB PIN CODE * = Next D = Back # = Yes		a.	Press the #=Yes key to enter Menu Option.
VB PIN *-EXIT	#*5678 #-SAVE	b.	Vend block pin code is factory set at #*5678. Use factory setting or type over four new digits and press the #-Save key. Type this code when you are in "Please Insert Money" mode to gain direct access to VEND BLOCK.
SAVED		c.	Press # to save the new PIN.

FREEZER OPEN

Control waits for one of the following conditions to occur:

- The Freezer Open Switch is detected.
- The seven second timer expires and the Freezer Lid is still not open.
- A period of time has elapsed without "seeing" Freezer Encoders.

A FREEZER LID LIFT MOTOR OVER-CURRENT IS DETECTED

When the Freezer Open Switch has been detected, a sequence of destinations is generated for the Robot Arm. In order to avoid hitting a gusset or wall, the Robot Arm will need to move to an intermediate position inside the cabinet, and then proceed to a position directly over the requested bin. Control starts a timer, sets the Robot Arm in motion and advances to the "Retrieve Inside Cabinet" state.

RETRIEVE INSIDE CABINET

Control guides the Robot Arm to an intermediate position. The Z axis (Up/Down) Home Switch is monitored while the Robot Arm is moving. The Z (Up) Motor is engaged, as necessary, to pull the picker tip up and to maintain the Z Home Switch in an active state. Control waits for one of the following conditions to occur:

- The intermediate cabinet position is reached.
- The timer monitoring the Robot Arm expires.
- A Robot Arm over-current condition occurs.
- The Robot Arm Angular Sensors report inaccurate data.

When the intermediate cabinet position has been reached, Control advances to the "Retrieve Product" state.

RETRIEVE PRODUCT

"Retrieve Product" is similar to the "Retrieve Inside Cabinet" state. Control directs the Robot Arm to reach a destination directly above the requested bin. When the destination has been reached, Control will set a 5 second timer while the Robot Arm pauses. The "pause state" will allow the Robot Arm to stabilize before the picker tip descends into a bin.

PAUSE

After the Robot Arm stabilizes, power to the Vacuum Pump is slowly ramped up until it is at the ideal level for product detection. A timer is set and the Z Motor is engaged to descend into the bin. Control proceeds to the Z (Down) state.

Z DOWN

We wait for one of the following to occur:

- An increase in current through the Vacuum Pump circuit indicates that product has been detected.
- Z Down timer expires.
- Z Encoder Pulses are not detected or the signal is lost.
- The Z Home Switch never goes inactive (open circuit).
- The number of encoder pulses exceeds the bin depth.

If product contact is made, the Z Down Motor is halted and (following another pause state to confirm product contact) a timer is set, a "slowdown point" is calculated for the upward travel, a current value is calculated which represents a dropped product and control proceeds to the Z Up state after engaging the Z motor in the UP direction.

ZUP

The Vacuum Pump remains ON as it ascends with the product out of the bin. Control waits for one of the following:

- The Z Home Switch is detected (active).
- Z Up timer expires.
- Z Encoder Pulses are not detected or the signal is lost.
- Current flow indicates a dropped product.

When the Z Home Switch is detected, another sequence of destinations is generated for the Robot Arm. To avoid hitting a gusset or a wall, the Robot Arm will move to an intermediate position inside the cabinet and then proceed to the delivery position. Control starts a timer, sets the Robot Arm in motion and advances to the cabinet intermediate position. Control advances to "Deliver Inside Cabinet" state.

DELIVER INSIDE CABINET

The Vacuum motor remains ON as long as a problem is not detected. The Z axis (Up/Down) Home Switch is monitored while Control guides the Robot Arm to the cabinet intermediate position. The Z- (Up) Motor is engaged, as necessary, to pull the picker tip up and to maintain the Z Home Switch in an active state. Control waits for one of the following conditions to occur:

- The intermediate cabinet position has been reached.
- The timer monitoring the Robot Arm expires.
- A Robot Arm over-current condition occurs.
- The Robot Arm Angular Sensors report inaccurate data.
- Current monitoring indicates that the product dropped.

When the intermediate cabinet position has been reached, Control advances to "Deliver to Home" state.

PROGRAMMING

DELIVER TO HOME

Deliver to Home is similar to the "Deliver Inside Cabinet" state. If the Robot Arm reaches the delivery position without issue, the vend cycle will be considered successful.

- If the Soft Drop feature had been enabled, Control
 will direct the Z Motor to descend the appropriate
 number of encoder pulses before turning OFF the
 Vacuum motor to release product into the
 Delivery Bin. After product has been released, the
 Z Motor will reel up the picker tip until the Z Home
 Switch is active.
- If the Line Mode feature had been enabled, Control will turn OFF the Vacuum motor to release product into the Delivery Bin and set a 20 second timer. If a new vend request arrives, the vend cycle will begin a new. If no new vend request arrives, then Line Mode will time out after 20 seconds.

Control will direct the freezer to close, set a timer and then Control will proceed to the "Freezer Close" state.

FREEZER CLOSE

We wait for one of the following to occur:

- The Freezer Closed Switch has been detected.
- The Freezer Open Switch is detected.
- The timer expires and the freezer is still not closed.
- A period of time has elapsed without "seeing" freezer encoders
- A Freezer Lid Lift Motor over-current is detected.

When the Freezer Closed Switch has been detected, Control will advance to a "Clean-up" state before returning to the "Idle" state to await another vend request.

CLEANUP

The "Clean-Up" state issues the "Vend Success" or "Vend Failure" signal to the Executive portion of the DIVI firmware. Control resets all parameters to prepare for the next vend request. Motors and switches are inspected. If the Z Home Switch is active, if the Robot Arm is at the delivery point and if no errors have been reported then Control will return to the "Idle" state.

DIVI LID LIFT MECHANISM REPLACEMENT AND INSTALLATION INSTRUCTIONS NECESSARY TOOLS AND ACCESSORY ITEMS:

- ¼" Wrench:
- 3/8" Wrench;
- 5/16" Wrench;
- · Cutting Pliers;
- (8) Cable Ties 7 ½"

THE FASTCORP DIVI LID LIFT MECHANISM:



Can be removed and replaced in approximately 30 to 45 minutes.

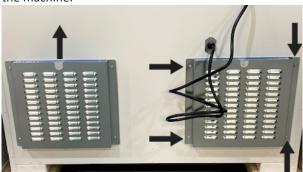
- Locate the power switch on the left side of the Power Supply next to delivery bin and turn it "OFF" to remove power to the VMC Board and the Freezer Lid Lift Mechanism.
- 2. Reach down behind the freezer to unplug the 2 pin connector for the circulation fan.
- Reach behind the freezer (right rear corner) to unplug the 2 pin thermistor connector.
 The harness will be labeled, "freezer." Be careful of sharp edges inside the cabinet.
- 4. Remove the cover from the Freezer Closed Switch Assembly (right front corner of Freezer). Make note of how the harness is plugged into the switch (common and normally open) and then unplug the switch.
- Note how the Freezer Lid Lift Harness is routed and where the cable ties are positioned. Mark each location on the cabinet and the harness.
 Follow the harness to the VMC Board and disconnect the connector at J3.
- 6. Carefully cut and remove the cable ties that hold the harness in place.
- 7. Manually open the Freezer Lid to access and remove the two (2) Freezer Lid Lift Mechanism retaining screws using a 3/8" wrench.

 These screws will be used over again to install the new mechanism.
- 8. If machine is equipped with fuse block for the lid lift, remove wires identified for the lid lift in the fuse identification table, by using a 3-4mm flat screw driver and insert in the fuse block wire port to release the wire, if this is not available, you can cut and wire nut the wires to the new harness.
- Remove the Lid Lift Mechanism and carefully pull the harness through the cabinet reinforcement bracket.

- Reverse the above instructions to install the new Freezer Lid Lift Mechanism. Take care not to damage the wiring harness when threading it through the cabinet reinforcement bracket.
- 11. Adjust the lift arm so that the Lift Pin on the right side of the Freezer Lid will drop into the fork on the top of the Lift Arm. You may have to raise the lift arm slightly. The Lid Lift Mechanism is adjustable front and back.
- 12. There is an adjustment at the bottom of the Lift Arm which determines how far the Freezer Lid will open before the Freezer Lid "Open" Switch is activated. Manually open the Freezer Lid. Tilt the top of the lift arm towards the back of the machine. The bottom of the arm will pivot outwards. You will need a ¼" wrench or nut driver to loosen the (2) screws. Raise the actuator plate to allow the "Open" Switch to activate sooner.

INSTRUCTIONS TO REPLACE DIVI

Location of filter housings in the lower rear of the machine:



Left Side Fan Filter:

- Lift at center cut-out. Remove to inspect old filter and replace if necessary, Part Number 2100405. Right Side Fan Filter:
- Remove 4 indicated nuts using an 11/32" socket wrench to remove the metal louvre to expose the filter.
- Inspect and change the filter as necessary, Part Number 2100405. Install the metal louvre using the same 4 nuts. X

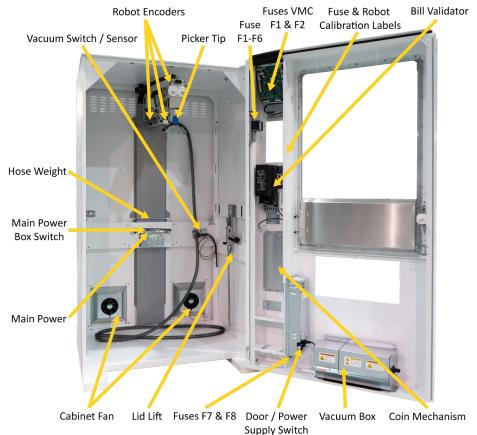
The Direction of the Filter is based on the Direction of the Airflow from the Circulation Fan:



There is an arrow on the top of the filter that shows airflow direction.

- Before removing the filter, place a piece of paper in front of the metal louvre panel to determine the direction of airflow from the circulation fan.
- Install the new filter with the arrow pointing in the same direction as the airflow from the circulation fan.

DIVI VENDING MACHINE



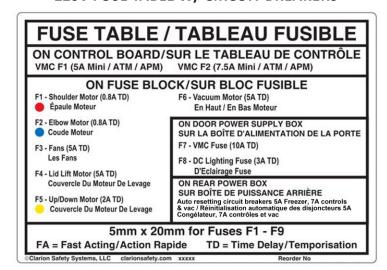
110V FUSE TABLE.



220V FUSE TABLE



220V FUSE TABLE W/ CIRCUIT BREAKERS



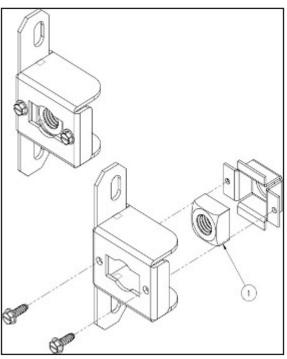
DIVI VENDING MACHINE (PARTS HIDDEN FOR CLEARER VIEW)



DIVI Vending Machine		
1	F003-A07877	Robot Arm Assembly
2	7000023	Mount, Leveling
3	1200013 (115v) 1200063 (220v)	Power Box Assembly

DIVI PARTS ASSEMBLIES

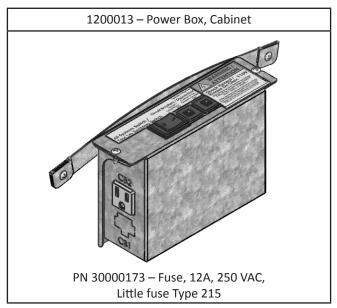
NUT BRACKET ASSEMBLY, T-HANDLE LOCK



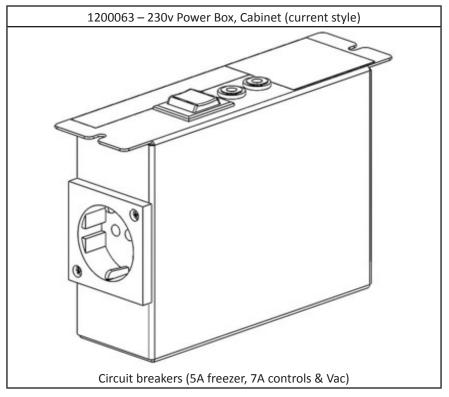
	1100017 - Nut	Bracket Assembly
1	6100007	Nut Square ½ -13

POWER BOX - CABINET

Model FS-01 - 115 VAC 1200013 – Power Box, Cabinet PN 30000173 – Fuse, 12A, 250 VAC, Little fuse Type 215

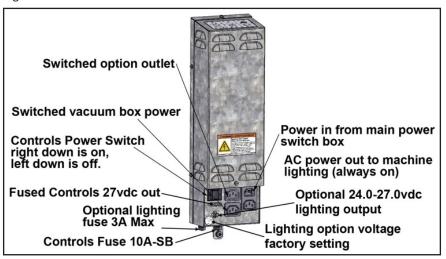


Model FS-02 - 230 VAC 1200063 – 230v Power Box, Cabinet (current style) Circuit breakers (5A freezer, 7A controls & Vac)



POWER SUPPLY ASSEMBLY

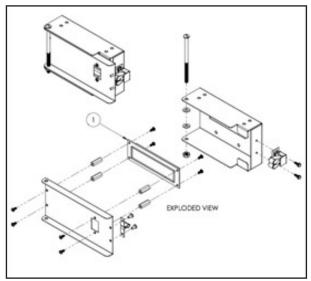
Power supplies with lighting option come factory set at 24.0v unless noted on voltage setting label on bottom left. If no label is present, voltage must be measured or it should be assumed to be 27VDC.



F003-A05383 for 27VDC power supply

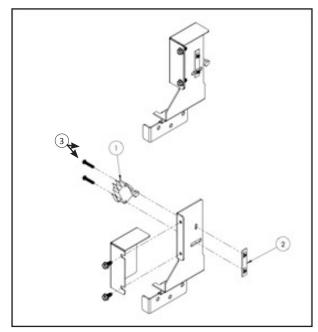
F003-A07083 for lighting option output power supply (see F003-A07045 for lighting adapter harness) F003-A07045 for lighting adapter harness)

DISPLAY ASSEMBLY



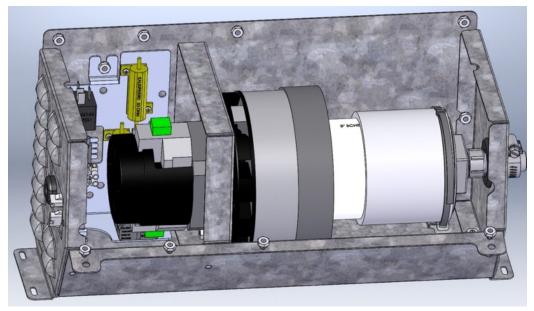
ĺ		1200016 Dis	play Assembly
ĺ	1	3000016	Display, OLED

FREEZER LID CLOSED SWITCH



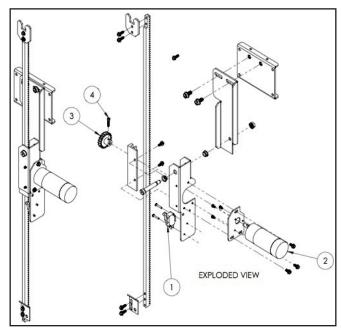
1200023 Freezer Lid Switch & Bracket Assembly			
1	3000008	Switch, Limit	
2	6100017	Fastener, Twin Type	
3	6000040	Screw, Type B #4-24	

VACUUM ASSEMBLY



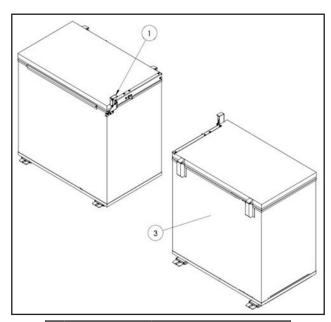
F003-A05431 - Vacuum Box Assembly (110v and 220v versions)

FREEZER LID LIFT ASSEMBLY



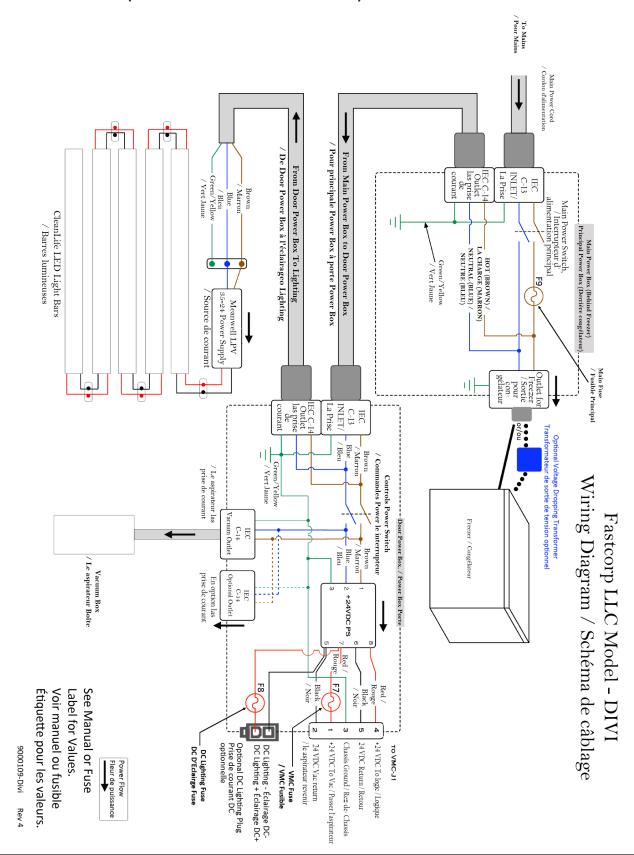
	1100124 Freezer Lid Assembly	
1	49500566	Switch, Limit
2	80450155001	Motor
3	49500406	Gear, Sprocket
4	48909121	6-32 x 5/8 Screw

FREEZER ASSEMBLY

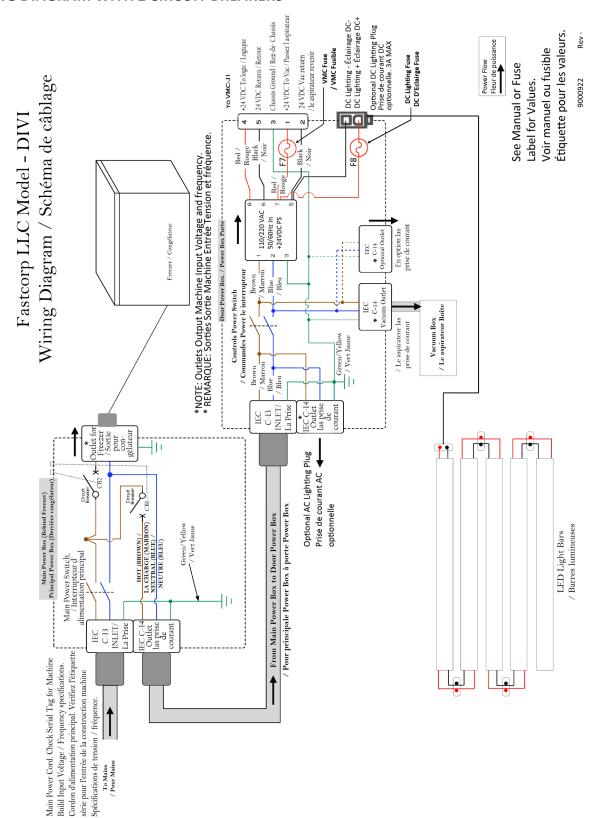


Freezer Assembly		
1	49500566	Freezer Lid Lift Switch
2	80492557001	Thermistor (not shown)
3	CALL	Freezer

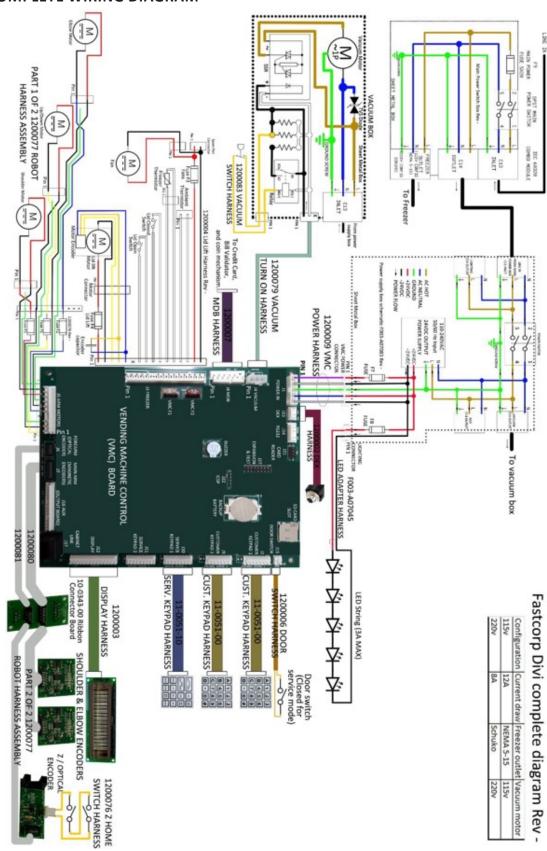
WIRING DIAGRAM (SINGLE MAIN POWER BOX FUSE)



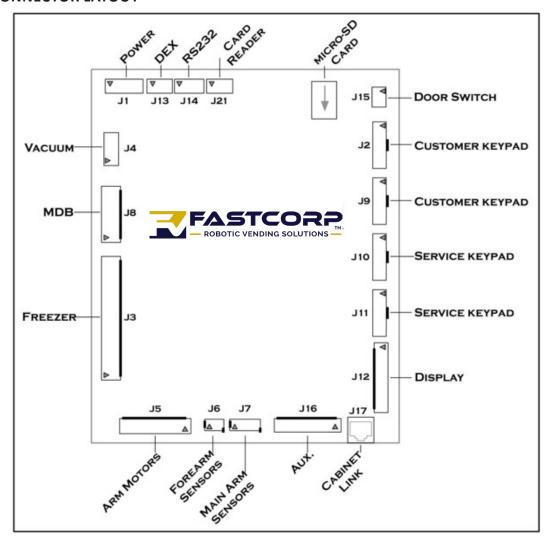
WIRING DIAGRAM WITH 2 CIRCUIT BREAKERS



DIVI COMPLETE WIRING DIAGRAM



VMC CONNECTOR LAYOUT



NOTES

NOTES

NOTES



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Fastcorp is part of a collaboration of companies that engineer and manufacture best-in-class and unique products to makets around the world. These include Chapcoinc.com, a specialist sheet-metal fabrication and assembly company; Trueformrunner.com, curved non-motorizedd treadmills; and Denlarhoods.com, creator of pre-engineered fire suppression range hood systems.





