



Thank you for purchasing a FASTCORP DIVI merchandiser. This guide will cover the basics of setting up your machine for the first time. Please observe 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,

The FASTCORP Team

#### **Fastcorp LLC Vendor Quick Start Guide**

- Unwrap and Inspect your machine for any shipping damage.
- Use a pair of Channel Locks or Wrench to adjust the 4 leveling legs until machine is level. A level has been supplied with the machine.
- Remove all shipping Ty-Wraps and then 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 power OFF. Hot plugging currency systems can destroy the control board.
- 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 under and 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". 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 momentary) 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. There should be 1 or 2 products left. If there are more you can go back to service menu # 21 "Up / Down Travel Limits" and adjust this. One setting for all the tall bins and one for all the short bins. Adjust the number larger to move the hose deeper into the bin. Try the vend again and repeat the process until you have the desired depth. Be cautious of setting the depth too far down. This could result in the robot trying to pickup the bin. The picker tip should never get closer than 1" to the bottom of 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.

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#### If you have any questions please call Technical Support. 888-441-3278 Option #3

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	1. PRICES	19
	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.	19
	2. APPLICABILITY, ACCEPTANCE AND MODIFICATION.	19
	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 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 here 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.	en cept of l ein. nall
	3. DELIVERY AND DELAYS.	. 19

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 performance 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

	ny of those herein above specified) beyond its control. Seller shall allocate production and deliveries among Seller's ustomers in its sole discretion	
	STORAGE	Э
	the event that Buyer is unable to accept delivery of parts or equipment at the time of completion and of shipment, eller may invoice for the total purchase price as if the shipment has been made and; (i) if Seller is able to store such quipment in its own facilities, the Buyer shall pay Seller reasonable handling and storage charges for the period of ach storage; or (ii) if Seller is unable to store such equipment in its own facilities, Seller reserves the right to arrange and ing and storage in a suitable warehouse for the Buyer, at the Buyer's expense. In cases where handling and orage become necessary, it will become the responsibility of the Buyer to notify Seller when shipment is to be made and to what destination.	e
	ADEQUATE ASSURANCES	)
	eller may, at any time, suspend performance of any order or require payment from Buyer in cash, security or other dequate assurance satisfactory to Seller when, in Seller's sole opinion, the financial condition of Buyer or other counds for insecurity warrant such action	J
	TAXES	)
	ny tax which the Seller may be required to pay or collect, through assessment or otherwise, under any existing or ture law upon or with respect to the sale, purchase, delivery, transportation, storage, processing, use or onsumption of any goods or services provided by Seller to Buyer, including taxes upon or measured by the receipts om sales or services, shall be for the account of Buyer and may be added to the price of goods or services purchased Buyer. Buyer shall promptly pay the amount thereof to Seller upon demand.	
В.	LIMITED WARRANTY	J
	a). Subject to the limitations specified herein, the DIVI Merchandiser manufactured by Seller is warranted for five ) years from the date of purchase against defective parts and workmanship for motors, vacuum motors and the IVI Merchandiser's freezer system consisting solely of the compressor, condenser, evaporator and the refrigerant bing is warranted for two (2) years from the date of purchase against defective parts and workmanship. Any part or exts which are proven to be defective within the applicable warranty period will be repaired and/or replaced free of earge, provided that, (i) the return of such part or parts is authorized in writing by Seller's Warranty Department (the seturn Authorization"), and (ii) the defective part and a copy of the Return Authorization is returned with ansportation 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 arrantee for two (2) years from date of purchase	e I
	). The warranties provided pursuant to Section 7(A) 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
	c). Notwithstanding anything contained herein to the contrary, the limited warranties provided for herein do not oply to: (i) electrical components, wiring, or circuits	c
	nd/or for all mechanical parts or assemblies damaged as a result of operating the DIVI Merchandiser at other than 15 volts, 60 Hertz current; (ii) incandescent lamps, neon lamps, fluorescent lamps, ballasts, starters, bins and sociated components, graphics or other expendable items; (iii) when other manufactured components are installed	ł

	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	
ı	equest	20
	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	20
	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	
ı	modification, negligence or use, casualty, fire, flood, storage, handling or any other cause beyond the control of	
	Seller	20
	F). THE WARRANTIES PROVIDED FOR UNDER THIS SECTION 7 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 REPRESENTATION	NS
	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	
C.	LIMITATIONS OF BUYER'S REMEDIES.	21
inc Sel Wi	yer's remedies with respect to any claim arising out of any order, or Seller's performance in connection therewith, luding, without limitation, any claim arising out of any defect or alleged defect in any goods or services furnished by ler, shall be limited exclusively to the repair and replacement of defective parts as specified in Section 7 herein. thout limiting the foregoing, Seller shall not be liable for breach of contract arising out of or in connection with a	/
	rranty claim. In no event shall Seller be liable for any damages including, but not limited to, lost profits or other	
	idental or consequential damages arising out of this agreement or the use or inability to use any of the products luding, but not limited to, the DIVI FC (plus any subsequent digits) Merchandiser, even if Seller has been advised of	
	possibility of such damages, or of any claim by Buyer or any other party.	
D.	WAIVER.	
	iver by Seller of any breach by Buyer of any of the terms and conditions set forth herein shall not be construed as a	
	iver of any other breach or the failure of Seller to exercise any right arising from any default of Buyer hereunder sha	
	be deemed to be a waiver of such right, which may be exercised at a subsequent time.	
Ε.	GOVERNING LAW.	
of '	s Agreement shall be governed by the Uniform Commercial Code as adopted by the State of Connecticut in force as the date hereof. Buyer consents to the jurisdiction of the state and federal courts within the State of Connecticut.	
۹۷	vice of process by certified or registered mail shall be sufficient to commence suit and obtain a judgment by defaul	t

Buyer waives any right to personal service of process. Notwithstanding 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

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	withi	in two (2) years after the delivery of the equipment to Buyer except in the case of a claim for Seller's breach of	
		ranty relating to the DIVI Merchandiser's freezer system as provided for herein which must be commenced with	
	five (	5) years after the delivery of the equipment to Buyer	21
	F.	Credit	21
	rate o	voices paid after the due date specified within shall accrue interest at the lesser of 2% per month or the highest of interest permitted by law. In the event that the Buyer pays any invoice with a credit card, Buyer hereby waive uses, and discharges any all rights that Buyer may have, under the terms of Buyer's agreement with the credit car	es,
	provi	ider, to dispute, challenge and/or protest the payment of any Seller invoice	21
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2. Adjust the front leveling legs to level the cabinet front-to-rear then adjust the front and rear legs an equal number of turns to level left to right. A maximum of 1" of thread is visible when the leveling leg is fully extended. Do not extend the leg beyond this point. A carpenter's level placed on top of the machine (front to back & left to right) will help verify that the machine is level. Leveling legs are adjusted using an adjustable wrench, pliers or a 1-3/8" open end wrench. Lowering the legs will raise the machine approximately 1/4" per 4 turns. 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

	o p	objects under the machine. Leveling is extremely important to ensure proper vendor operation. Do not program or operate the machine before the leveling process is complete. If preprogramming selections in a warehouse prior to olacement, the machine must be leveled again at the new location and all the program selections checked for proper obot to bin alignment.
ſ	Ο.	POSITIONING THE MACHINE
		Distance. Maintain a distance of at least 3"/ 10 cm between the rear wall of the vendor and any obstructions to ensure adequate ventilation airflow. Pay special attention to the air vents at the top and bottom of the rear cabinet vall.26
	2	226
		3. Opening the Front Door: The T-Handle keys (if locks are supplied), can be found in the Coin Change Pocket. The T-Handle lock cylinder and keys that come with each DIVI Vendor are common to all machines shipped from Fastcorp, LC. All shipping locks should be replaced before the machine is placed on location
	h d	I. Power Supply Cord: The DIVI Vendor power supply cord is equipped with a resettable Ground Fault Circuit nterrupt device (GFCI). Care should be taken when handling the GFCI module. Damage may occur if dropped onto a nard surface. The end of the power supply cord with the GFCI device is placed into the Delivery Bin to protect it during transport. The GFCI unit has an LED light to let you know that the device is working. If the GFCI cannot be eset or if the GFCI unit trips immediately after being reset, call Fastcorp Service at (888) 441-3278
	E. nec	SHIPPING BRACKETS. The DIVI Vendor makes uses tie wraps to secure the robot arm during transportation. It is sessary to install these tie wraps each time the machine is transported to or from location
	P	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.
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	1 c	Do not use oil or any other lubricants on moving parts. Lubricants may damage the mechanical and electronic components.
ı	3.	General Cleaning Considerations
	1 b	It is important to maintain the machine in accordance with this manual. The cabinet, freezer, door and delivery oin should be periodically wiped down with a non-abrasive damp cloth and vacuumed as necessary

an located in the lower rear corner of the cabinet should be cleaned usin	g a

	2. To allow for proper air flow, the fan located in the lower rear corner of the cabinet should be cleaned using a cloth at regularly scheduled intervals. Those intervals will be dictated by the cleanliness of the location. All machines should be cleaned at least once a month.	
	3. Disconnect power prior to servicing any electrical or moving components including the fan. Do not pull on w that supply power to any components. Failure to comply may result in damage to the vendor and increased risk of electric shock	of
	4. To avoid the possibility of a fire hazard and to decrease the possibility of restricted airflow into the vendor, d 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.	e
	5. Do not use water, soap or any other liquid to clean the inside of the vendor. The outside of the cabinet and g can be cleaned using a soft cloth and a mild detergent. Never use flammable materials to clean any part of the vendor	_
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	1. The DIVI Vendor supports only 24 - 34 volt Multi-Drop Bus (MDB) Money Systems	29
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	3. 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 t T-Handle bolt on the back of the door. It is necessary for the machine to have a unique identification number entinto the serial number field on the Service Menu Option 17) Machine Serial Number (defaults to the VMC Board so number). Your DEX interrogator may need to be initialized prior to the first read to allow the vendor to be recognized.	the ered erial
В	Installing Peripherals	29
	<ol> <li>Coin and bill accepters as well as card readers and other MDB peripherals should be installed and their functi tested prior to placing the vendor into service. Always turn OFF the Power Supply rocker switch (bottom of door under Delivery Bin) before plugging or unplugging MDB peripherals.</li> </ol>	
C	Coin Mechanism/Changer	29
	<ol> <li>The Coin Changer mounts onto (3) screws on the back of the door inside the security door. Make sure that a 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.</li> </ol>	, ,
	2. Fill all coin tubes until a coin from each tube overflows into the cash box. Test the operation of the coin char after filling the tubes.	_
	3. If the display reads, "Machine Must Be Set Up", programs a selection and then insert coins and test the coin changer for proper operation	29

5. Coins may be dispensed by pressing the payout keys on Service Keypad or by going to Service Menu Fill / Dispense.	
Till / Disperise	29
D. Bill Acceptor	29
1. Remove the lower block-off plate from the door by removing the four #8 nuts with an 11/32" socked Install the Bill Acceptor onto the studs using the four #8 nuts that had previously held on the block-off plate bill validators may require the use of stud extensions. These are usually supplied with the bill validator a used only if necessary. Tighten all four nuts to secure the assembly, then turn ON the vendor and test for operation.	late. Some and should be or proper
E. Card Readers and Telemetry Systems	29
1. There are many card readers and telemetry systems available. Fastcorp has tested many of these compatibility with our software. On occasion, a new product will be introduced which may require testing to insure compatibility. If you have any questions relating to your MDB peripherals, please call Factorical Service.	re further astcorp
2. Card Readers may be installed directly above the Customer Keypad. Remove the upper block-off pl install on the four available studs using the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket with the four block-off plate #8 retainer nuts and an 11/32" socket nuts an	
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1. Standard Machines	
2. Extreme Cold Machines	
C. Servicing the Freezer:	
<ol> <li>The standard chest freezer inside the DIVI does not self-defrost. The freezer chest requires mainten ice begins to affect the vend cycle, product loading, or closing the freezer lid. The refrigeration system does require any maintenance. Depending on the location's moisture level (relative humidity) and frequency ice may accumulate inside the Freezer above the level of the bins</li></ol>	oes not of operation,
2. FASTCORP recommends keeping a plastic ice scraper (provided with the machine), and a 9" by 11" cardboard or plastic inside the machine. Place the plastic under the area to be scraped to prevent the ice into the bins. This entire process should only take a few minutes. Wipe the area with a clean dry towel a has been removed. This process should be repeated each time the Vendor is serviced to prevent large s buildup that will require a time consuming freezer defrost	e from falling after the frost cale ice
D. DEFROST FREEZER:	

	1. de	Depending on usage, temperature, humidity and maintenance practices, it may eventually become necessary efrost the freezer.	
	-	Under most conditions, the DIVI Vendor may lose power for 12 hours without compromising the quality of the oduct. If freezer temps reach unsafe levels the health sensor will activate and the machine will be placed out of	
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	m m	Then the machine is placed out of service with a Health Sensor Active, the product must be inspected before the achine can be reset and placed back in operation. Often only the top two or three items in each bin will have elted. If the machine loses power for an extended period of time, the product must be discarded and the freezend bins will have to be cleaned before the machine can be placed back in service.	er
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	-	Press "CLOSE" on the Service Keypad when bins have been filled. The Robot Arm will return to the front deliversition and the Freezer Lid will close. The Health Timer will automatically be set to 75 minutes to allow the freezer recover from any possible temperature loss due to loading	er
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	3. He	"Load" then "Close" will signal the VMC that the machine has been filled. Load/Close will automatically set a salth Sensor delay for 75 minutes.	. 32
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	5.	General Considerations:	
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1	mem progr	Introduction. The machine comes from the factory without any preset selection numbers or bin locations in ory. All information is entered during initial setup and programming. Programming is menu driven and ramming menus are accessed in Service Mode. Simply scroll through the menus until the desired function is need. Once inside a menu function, the computer will prompt the user to enter the required information	. 35
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	9. ord	SERVICE PHONE #: Allows service phone number to be set. The number is displayed when the machine is outder. (Do not use FASTCORP'S phone number)	
		. SALES PIN CODE: Allows PIN code to be set and viewed for machine auditing. # 2) Sales Meters may be access om outside the machine without opening the door	
	11.	. VEND BLOCK: Allows the machine to be disabled for up to 4 predetermined periods of time	. 36
	12.	. VEND BLOCK PIN CODE: Allows a PIN code to be set to access the vend block function without opening the do 36	or.

		HEALTH TIMER: Suspends Health Control for 1,2,3 or 4 hours; Set freezer temperature scale to display in either	
		renheit or Centigrade; Set mode for Health Sensor: NAMA Ice Cream, Test, Super Cold or Food	
	14.	PROGRAM VERSION: Displays version of firmware installed on VMC.	36
		DISPLAY LANGUAGE: Allows the programmer to choose the language displayed on the screen. Choose from ish, German or Spanish. One additional language may be added to memory if necessary	36
		LINE MODE: Shortens vend time by leaving the freezer lid open between vends. Lid opens when currency has n detected. Lid will close if there is no activity for 20 seconds.	36
	17. iden	MACHINE SERIAL NUMBER: Allows the programmer to enter up to a 10-digit serial number for machine stification during DEXing.	36
	18.	FILL / DISPENSE: Allows coins to be dispensed from tubes while displaying a coin count	36
		TOKENS & COUPONS: Allows coupons and tokens to be recognized as free or valued vends and records sales in ropriate DEX fields	
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		VERIFY ALL BINS: Automatically moves robot over each bin position. Allows user to verify and edit bin	50
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	The VMC Board is located at the top of the opening and the Digital Display Board is located directly below the MC. Unlatch the right side of the Display Board and flip it around so that the display may be viewed from the ba	ıck
	The Microprocessor (daughter) Board is located on the upper right corner of the VMC Board. Remove the Mic D card from its SD Adapter and carefully insert it into the metallic slot located on the upper right corner of the aughter board.	
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-	Use the asterisk "*" key to scroll through the contents of the Micro SD card. There may be more than one ogram version contained on the card. Use the "*" key to scroll to the latest or highest number version of the boader.	
8.	Press the pound "#" key. The Display will read:	50
9. SE	Press down gently on the top of the card and let go. The card will slide up slightly in the sleeve. Leave the Mi	

		Gently, press down on the Micro SD card so that it locks into the slot. The Display will scroll between the option the Micro SD Card menu:	
		Use the asterisk "*" key to scroll through the contents of the Micro SD card. Scroll to the latest or highest ber version	5C
	right	Press the pound (#) key to enter the selection. The Display will read, "Programming". An LED status light on the side of the VMC Board will start flashing rapidly. When the process is complete, the display will read, "UPDATE CESS. Remove card"	
		To remove the Micro SD card, press down on the top of the card. It will slide up enough for you to lift the card ght up and out5	5C
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	firm	If the user selects "Load New Firmware", the firmware will automatically save a copy of the existing gramming configuration before starting the firmware upgrade. Once the firmware upgrade is complete, the new ware will automatically look to see i a programming configuration had been saved and will restore that figuration into its operational memory.	
	3. simi	If it is necessary to save a bin configuration or DEX data to a Micro SD card, the naming convention used is lar to that once used in cell phone technology for texting and saving phone numbers:	51
	4.	To name a configuration, "BINS":5	51
	5. save	Although DEX sales data remains untouched throughout the program upgrade process, the user should manual a copy of DEX sales data to the Micro SD card before upgrading the firmware	-
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		The Microprocessor (daughter) Board is located on the upper right corner of the VMC Board. Remove the Micro ard from its SD adapter and carefully insert it into the metallic slot located on the upper right corner of the	
	dau	ghter board5	
	6.	The Display will scroll between the options on the Micro SD Card menu:	52

		Enter "2" to save your current bin configuration. Name your bin configuration appropriately using the naming vention described in the previous section (see Fig. 12). Press "#" to save your bin configuration to your Micro Sl. Push down slightly on your Micro SD card and then let it go. It will pop up slightly in the socket	
	8.	We recommend that you also save your DEX data. Push down on the Micro SD card again while it is still in the and when the scrolling display again appears, enter "4" to save and name your DEX file(see Fig. 12)	
		Major Program Upgrades may require a Boot Loader Upgrade in addition to the Program Upgrade. Check with corp Service to determine if the boot loader upgrade is necessary. If it is not necessary, skip to instruction the program upgrade is necessary.	52
		The MICRO SD Card should still be in the Daughter Board slot. Press down on the card as before. The Display w ll between the options on the Micro SD Card menu:	
	prog	Use the asterisk "*" key to scroll through the contents of the Micro SD card. There may be more than one gram version contained on the card. Typically there will also be a boot loader program. Use the "*" key to scroll be latest or highest numberversion of the boot loader.	53
	12.	Press the pound "#" key. The Display will read:	53
		An LED status light on the right side of the board will start flashing rapidly. When the process is complete, the lay will read:	53
		Press down gently on the top and let go. The card will slide up slightly in the sleeve. Leave the Micro SD card in slot. The Display will read:5	
		The MICRO SD Card should still be in the Daughter Board slot. Press down on the Micro SD card so that it lock the slot. If The display will show Micro SD ready:	
		There may be more than one program version contained on the card. Use the "*" key to scroll to the latest or est number version.	53
	righ	Press the pound (#) key to enter the selection. The Display will read, "Programming". An LED status light on the table side of the VMC Board will start flashing rapidly. When the process is complete, the display will read, "UPDATE CESS. Remove card"	
		To remove the Micro SD card, press down on the top. It should slide up slightly allowing you to grasp it betwee fingers. Lift the SD card straight up and out.	
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	2. pow	Locate the power switch on the left side of the Power Supply under the delivery bin and turn it "OFF" to remover to the VMC Board and the Freezer Lid Lift Mechanism	
	3.	Reach down behind the freezer to unplug the 2 pin connector for the circulation fan	58
	4. labe	Reach behind the freezer (right rear corner) to unplug the 2 pin thermistor connector. The harness will be eled, "freezer". Be careful of sharp edges inside the cabinet.	. 58
	5. the	Remove the cover from the Freezer Closed Switch Assembly (right front corner of Freezer). Make note of how harness is plugged into the switch (common and normally open) and then unplug the switch.	
	6. the	Note how the Freezer Lid Lift Harness is routed and where the cable ties are positioned. Mark each location of cabinet and the harness. Follow the harness to the VMC Board and disconnect the connector at J3	
	7.	Carefully cut and remove the cable ties that hold the harness in place.	58
	8. usin	Manually open the Freezer Lid to access and remove the two (2) Freezer Lid Lift Mechanism retaining screws g a 3/8" wrench. These screws will be used over again to install the new mechanism.	. 58
		If machine is equipped with fuse block for the lid lift, remove wires identified for the lid lift in the fuse stification table, by using a 3-4mm flat screw driver and insert in the fuse block wire port to release the wire, if is not available, you can cut and wire nut the wires to the new harness	
	10.	Remove the Lid Lift Mechanism and carefully pull the harness through the cabinet reinforcement bracket	58
		Reverse the above instructions to install the new Freezer Lid Lift Mechanism. Take care not to damage the ng harness when threading it through the cabinet reinforcement bracket	. 58
		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 th Arm. You may have to raise the lift arm slightly. The Lid Lift Mechanism is adjustable front and back	
	the bacl	There is an adjustment at the bottom of the Lift Arm which determines how far the Freezer Lid will open befor Freezer Lid "Open" Switch is activated. Manually open the Freezer Lid. Tilt the top of the lift arm towards the cof the machine. The bottom of the arm will pivot outwards. You will need a ¼" wrench or nut driver to looser (2) screws. Raise the actuator plate to allow the "Open" Switch to activate sooner	า
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1.	Necessary Tools and Accessory Items:
2. VM0	Locate the power switch on the Power Supply under the delivery bin and turn it OFF to remove power from the C Board and Robot Arm
3. fron	Grab the hose at its access point to the robot arm and press the up button, this will retract the hose until free nollers, pull hose out from robot and set aside
plas char out	Open the wire channel that contains the ribbon cable and disconnect the connectors from the VMC Board (J6 J7). Make note of the connector orientation on the VMC. The Robot Arm Harnesses are routed through (2) black tic wire channels located on the top of the right and rear cabinet walls. To open the wire channels, begin at the nnel end closest to the Robot Arm and use your thumb to push up on the bottom of the channel while also pulling on the top of the channel. The channels should unlatch on top while hinging on the bottom. Remove the nessing from the wire channels.
5.	Unplug the twelve pin connector located at the back of the robot arm (right side)
6.	Remove the two screws securing the metal cover. Pull it aside to expose the mounting bracket, note that this er will remain attached to the robot by the harnessing and be careful not to damage the wires
the Whe	The mounting shaft of the Robot Arm is clamped into a mount located on the back cabinet wall. The mounting it is held in place by (4) screws. Use either a 5/16" (8mm) socket wrench to loosen the (4) screws. Do not remove (4) screws. Use one hand to support the Robot Arm while pulling out on the top of the hinged Robot Arm Clamp. En the clamp has been pulled out, the Robot Arm Shaft will drop down and out the bottom of the mount. The ot Arm may now be removed from the machine.
shaf mou	Remove the replacement Robot Arm from the packaging and carefully unspool the harness. The Robot Arm unting Shaft is pointed on one side and has a horizontal "notch" on the other. The pointed side of the mounting it should face the rear cabinet wall as the shaft is installed back into the mount. As you slide the shaft up into the unt, you should hear an audible "click" as the "notch" slides past the clamp on the bracket. Support the Robot until the (4) retaining screws are tight.
9.	Reinstall the ribbon cables and connect the twelve pin connector and secure the robot arm cover
Rep Rob	Plug the (2) connectors back into the VMC Board. It is critical to ensure that the orientation of these connectors coperly placed since the wire position is essential. Take care not to bend any pins as you seat the connectors. lace the cable ties so that the Robot Arm Harness is positioned next to the Lid Lift Harness as it was before. The ot Arm Harness must be positioned clear of the inner door and outer door as the doors are opened and closed. a care that the harnesses are not pinched by either door.
Rob	Review your work. Make sure that the Robot Arm fasteners are tight. Check all connections. Confirm that the ot Arm moves freely without binding. Confirm that all wires and harnesses are positioned correctly and no wires being pinched
Posi	Turn on the machine using the Power Switch on the left side of the Power Supply below the Delivery Bin. tion the Display Board so that it may be viewed from the back of the door. Press the "VAC" button to unlock the pad
13	The new Robot Arm must be calibrated to the machine. Refer to the section on Calibrating the Robot Arm. Go to

Service Menu Option 4) Create Selection. Press and hold the Reset button. The Display will first read, "THIS FORCES

RE-SETUP" and then, "Arm Uncalibrated". Release the Reset button. If you continue to hold the Reset button you	
will erase all product selections and their freezer locations	59
14. Press the pound (#) key to continue. (See Fig. 9A and 9B) The Display will instruct you to "Put Arm at Left Wall"	<b>'</b> .
Fold the Robot Arm so that the upper arm is against the back cabinet wall and the front of the Robot Arm is against	
the left side cabinet wall. Press the pound (#) key to accept. The Display will instruct you to "Set Arm at Delivery".	
Move the arm so it is straight out from the back wall with the Vacuum Pump housing in the front center position.	
Press the pound (#) key to accept	50
15. At this point the calibration and installation process is complete. Your selections should still be programmed	
correctly. We recommend that you try a few test vends to verify the operation and price settings	50

#### Setup and Users Guide

#### I. Warranty

#### A. FASTCORP ("SELLER") TERMS AND CONDITIONS OF SALE

#### 1. 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..

#### 2. 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.

#### 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 performance 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.

#### 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.

#### ADEQUATE ASSURANCES.

#### Setup and Users Guide

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.

#### 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.

#### B. LIMITED 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, vacuum motors and 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 warrantee for two (2) years from date of purchase.
- (B). The warranties provided pursuant to Section 7(A) 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). Notwithstanding 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.

#### Setup and Users Guide

(F). THE WARRANTIES PROVIDED FOR UNDER THIS SECTION 7 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.

#### C. 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 Section 7 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.

#### D. 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.

#### E. 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. Notwithstanding 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 two (2) 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 five (5) years after the delivery of the equipment to Buyer.

#### F. 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.

#### II. SPECIFICATIONS



#### SAFETY CONSIDERATIONS – GENERAL

Please read this manual in its entirety. This service information is intended for use by qualified service technicians that are familiar with approved safety and service procedures.

All repairs must be performed in accordance with Fastcorp Service Instructions 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 or death.

Only factory approved Fastcorp parts should be used in the repair of Fastcorp machines.

No repairs, adjustments or assembly should be undertaken without using appropriate tools.

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.



SAFTY CONSIDERATIONS - ELECTRICAL

#### Warning - Electric Shock Hazard

!!!WORKING ON AN ENERGIZED ELECTRICAL CIRCUIT COULD CAUSE SERIOUS HARM OR DEATH!!!

ALWAYS POWER OFF and UNPLUG the DIVI VENDOR BEFORE ATTEMPTING TO MAKE REPAIRS TO ADJUST or INSTALL PARTS ONTO the DIVI VENDING MACHINE.



#### **ELECTRIC POWER REQUIREMENTS**

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

DIVI MODEL	USAGE	VOLTAGE	CYCLE	AMPERAGE
FC01/FC03/FC05FC07	DOMESTIC - N.A.	115	60	12
FC02/FC04/FC06/FC08	INTERNATIONAL	230	50	8

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

DO NOT USE AN EXTENSION CORD OR POWER STRIP TO SUPPLY POWER TO THE DIVI MACHINE.



#### GROUND THE VENDOR

The DIVI Vendor MUST be plugged into a properly grounded outlet. If the outlet will not accept the power cord plug, contact an electrician to install an appropriate AC outlet.

DO NOT REMOVE THE GROUND PIN OR IN ANY WAY BYPASS, MODIFY, DEFEAT OR DESTROY THE GROUNDING SYSTEM OF THE VENDOR.

FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR FATAL.

#### E. Machine Dimensions:

HEIGHT	73 - INCHES / 185 CENTIMETERS
WIDTH	41 - INCHES / 104 CENTIMETERS
DEPTH	36 - INCHES / 91 CENTIMETERS(WITHOUT BACK BRACE)
WEIGHT, NET	775 - POUNDS / 352 KILOGRAMS
WEIGHT, GROSS	800 - POUNDS / 363 KILOGRAMS

FC01=DIVI basic

FC02=DIVI Basic 220VAC

FC03= DIVI Refrigerated

FC04= DIVI Refrigerated 220VAC

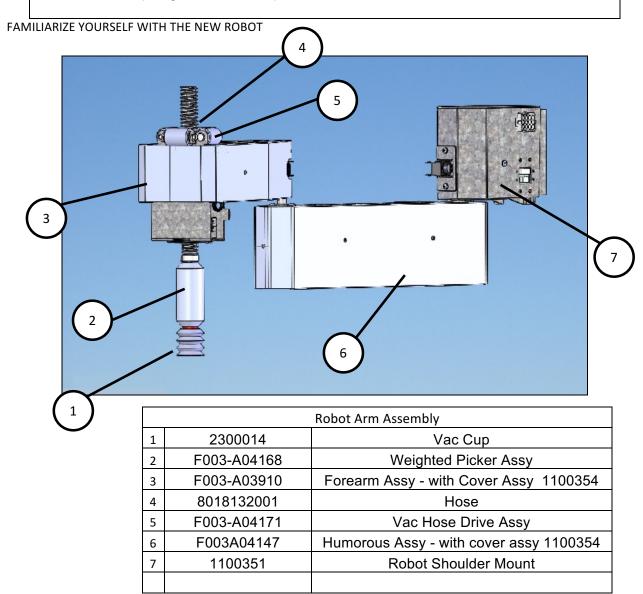
FC05= DIVI Ambient

III.

FC06= DIVI Ambient 220VAC

FC07= DIVI Combo (Refrigerated & Ambient)

FC08= DIVI Combo (Refrigerated & Ambient) 220VAC



#### Setup and Users Guide

#### IV. TRANSPORT, UNPACKING AND INITIAL SETUP INSTRUCTIONS

#### A. 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 uncrating instructions for cable tie and shipping bracket installation.

#### !! ATTENTION!!

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

#### B. RECEIVING INSPECTION

Upon Receipt, before removing packing material, inspect the outside of the machine. Remove exterior packing materials. 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.

- 1. Tools required uncrating the vendor:
  - a) Screw gun with Phillips #2 bit -to remove screws, only if sand box
  - b) Box cutter knife to remove stretch wrap
  - c) Cutting pliers to cut tie-wraps

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
  - o This serves to protect the graphics and prevent damage to the cabinet and door.
- 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.

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

2. Remove the Shipping Materials:

- a) Use a screw gun with a #2 Phillips bit to remove the retainer screws from the wood perimeter barrier at the base of the vendor.
- b) 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 or Graphics.
- c) Store corner boards, card board panels and wood base barrier for future use.
- d) 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. The skids are held in place by the (4) Leveling Legs.
- 3. Remove the Shipping Skids:
  - a) The shipping skids can be removed by lifting and supporting the vendor with an approved lifting device and then remove the (4) leveling legs using a 1 3/8" socket wrench. Re-install the leveling legs a minimum of % ". Store shipping skids for future use.
  - b) The shipping skids have kerfs cut through each end and between the leveling legs to allow skids to be split in half and removed using a pry bar if necessary. Splitting the skids will render them unusable. The shipping skids will need to be replaced before the machine is moved, again.



#### PRECAUTIONARY NOTES

- 1. THE VENDOR MUST BE PROPERLY LOCATED AND LEVELED.
  - a) The vendor must be located on a solid, flat and level surface.
  - b) The floor must be capable of supporting the weight load of a fully stocked machine.
  - c) The vendor must be positioned close enough to an electrical outlet so that an extension cord is not necessary.
  - d) The vendor should be moved with a pallet jack, fork lift truck, or vending machine dolly.
  - e) Due to the large size and weight of the vendor, never move the vendor with a hand truck or stair climber.
  - f) IF THE MACHINE WILL BE SUBJECT TO MISUSE OR VANDALISM, IT IS RECOMMENDED THAT THE VENDOR BE SECURED TO THE FLOOR OR WALL TO MINIMIZE RISK OF INJURY OR DEATH FROM TIPPING.
  - g) Do not use above 2000 meters (6560 feet)
  - h) Temp range: Indoor: 28.4°F to 107.6°F Protected & outdoor: -34.6°F to 107.6°F

CALL THE FASTCORP TECHNICAL SERVICE DEPARTMENT AT (888) 441-3278 FOR ASSISTANCE.

#### Setup and Users Guide

2. Adjust the front leveling legs to level the cabinet front-to-rear then adjust the front and rear legs an equal number of turns to level left to right. A maximum of 1" of thread is visible when the leveling leg is fully extended. Do not extend the leg beyond this point. A carpenter's level placed on top of the machine (front to back & left to right) will help verify that the machine is level. Leveling legs are adjusted using an adjustable wrench, pliers or a 1-3/8" open end wrench. Lowering the legs will raise the machine approximately 1/4" per 4 turns. 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. Do not program or operate the machine before the leveling process is complete. If preprogramming 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.

#### D. POSITIONING THE MACHINE

- 1. Distance. Maintain a distance of at least 4"/ 10 cm between the rear wall of the vendor and any obstructions to ensure adequate ventilation airflow. Pay special attention to the air vents at the top and bottom of the rear cabinet wall.
- 2.
- 3. Opening the Front Door: The T-Handle keys (if locks are supplied), can be found in the Coin Change Pocket. The T-Handle lock cylinder and keys that come with each DIVI Vendor are common to all machines shipped from Fastcorp, LLC. All shipping locks should be replaced before the machine is placed on location.
- 4. Power Supply Cord: The 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 end of the power supply cord with the GFCI device is placed into the Delivery Bin to protect it during transport. The GFCI unit has an LED light to let you know that the device is working. If the GFCI cannot be reset or if the GFCI unit trips immediately after being reset, call Fastcorp Service at (888) 441-3278.
- E. SHIPPING BRACKETS. The DIVI Vendor makes uses tie wraps to secure the robot arm during transportation. It is necessary to install these tie wraps each time the machine is transported to or from location.
  - 1. 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.

#### F. 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.

1. Power Box

#### Setup and Users Guide

- a) The Power Box is the primary power source for the vendor. It is located on the inside cabinet wall behind or to the 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, the lamps and the Power Supply located below the Product Delivery Bin on the bottom of the Front Door. The Power Box has (1) input Power Cord with GFCI and (2) outputs Freezer and Power Cord to the Power Supply.
- 2. Power Supply
  - a) The Power Supply is located below the Product Delivery Bin on the bottom of the Front Door. The Power Supply has an ON/OFF switch located on the left side of the box which supplies power to the VMC, the Robot Arm, the Digital Display and the Currency/Telemetry systems.
  - b) To turn on the machine, first turn "ON" the Power Box Switch and then turn "ON" the Power Supply Switch (below 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. 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.

#### V. General Maintenance and Cleaning

#### A. Lubrication

- 1. Do not use oil or any other lubricants on moving parts. Lubricants may damage the mechanical and electronic components.
- B. General Cleaning Considerations

- 1. 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.
- 2. To allow for proper air flow, the fan located in the lower rear corner of the cabinet should be cleaned using a cloth at regularly scheduled intervals. Those intervals will be dictated by the cleanliness of the location. All machines should be cleaned at least once a month.
- 3. 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.
- 4. 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.
- 5. 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.



1. Do not pressure wash

- 2. Do not operate machine above 2,000 meters (6560 feet).
- 3. Keep back of machine off wall at least 3" for unobstructed airflow.
- 4. Temp usage range: Indoor Use: 28.4°F to 107.6°F (-2°C to 42°C) Protected locations and outdoor use -34.6°F to 107.6°F (-33°C to 42°C)
- 1. Ne pas laver au jet sous pression
- 2. Ne pas faire fonctionner la machine au-dessus de 2 000 mètres (6560 pieds).
- 3. Dégager l'arrière de la machine d'au moins 75 mm (3 po) du mur pour permettre une circulation d'air sans obstruction.
- 4. Plage de températures d'utilisation : Utilisation à l'intérieur : -2 °C à 42 °C (28,4 °F à 107,6 °F) Utilisation sous abri et à l'extérieur : -33 °C à 42 °C (-34,6 °F à 107,6 °F)

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VI. SETUP INSTRUCTIONS

#### A. Currency Systems

- 1. The DIVI Vendor supports only 24 34 volt Multi-Drop Bus (MDB) Money Systems
- 2. 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.
- 3. 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.

#### B. Installing Peripherals

1. 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 turn OFF the Power Supply rocker switch (bottom of door under Delivery Bin) before plugging or unplugging MDB peripherals.

#### C. Coin Mechanism/Changer

- 1. 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.
- 2. 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.
- 3. If the display reads, "Machine Must Be Set Up", programs a selection and then insert coins and test the coin changer for proper operation.
- 4. While testing, push the coin return to verify that coins will dispense into the coin return cup.
- 5. Coins may be dispensed by pressing the payout keys on Service Keypad or by going to Service Menu Option 18) Fill / Dispense.

#### D. Bill Acceptor

1. Remove the lower block-off plate from the door by removing the four #8 nuts with an 11/32" 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.

#### E. Card Readers and Telemetry Systems

- 1. 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.
- 2. Card Readers may be installed directly above the Customer Keypad. Remove the upper block-off plate and install on the four available studs using the four block-off plate #8 retainer nuts and an 11/32" socket wrench.
- 3. Note Store the block off plates in a safe place for future use.

#### VII. FREEZER MAINTENANCE DIVI

#### A. Viewing freezer temperature:

#### Setup and Users Guide

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

#### B. Temperature Adjustment:

- 1. Standard Machines
  - a) Depending on the freezer model, some machines have temperature controllers and some don't.
  - b) If available, the temperature may be adjusted by turning the Thermostat Dial located on the outside back of the freezer next to the left freezer lid hinge. The scale ranges from 1 which is the warmest setting to 7 which is the coldest. The recommended factory setting is "5". Three to four hours after powering up the Vendor, the temperature inside the Freezer should drop to about  $-10^{\circ}$ F /  $-23^{\circ}$ 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  $-5^{\circ}$ F/ $-20^{\circ}$ C and  $-15^{\circ}$ F/ $-26^{\circ}$ C.

#### 2. Extreme Cold Machines

a) Extreme cold machines should reach operating temperature in approximately 4 hours after being turned on. Typically, operating temperature ranges between -30 °F / -34°C and -40°F / -40°C. There is no Thermostat or temperature adjustment mechanism on extreme cold machines (-40°). The temperature may be viewed by pressing the "\*" key while in Vending Mode (Please Insert Money).

#### C. Servicing the Freezer:

- 1. 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.
- 2. FASTCORP recommends keeping a 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.

#### D. DEFROST FREEZER:

- 1. Depending on usage, temperature, humidity and maintenance practices, it may eventually become necessary to defrost the freezer.
  - a) Press the "LOAD" button and then turn OFF and unplug the vendor.
  - b) Remove all the bins.
  - c) Place the product in an appropriate holding container.
  - d) Scrape off and remove ice from the freezer chest.
  - e) Drain freezer into a pan. Plugs are located on the inside floor and outside front. A wet/dry vac or even a sponge may be used depending on the volume of water.
  - f) Install bins, turn on the freezer and load product after the freezer reaches operating temperature.
  - g) Test-vend each selection to verify accuracy. Edit locations as necessary.
- 2. Under most conditions, the DIVI Vendor may lose power for 12 hours without compromising the quality of the product. If freezer temps reach unsafe levels the health sensor will activate and the machine will be placed out of order.

#### E. 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.

- 1. Ice Cream and Food Machines:
  - a) 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.
- 2. Extreme Cold Machines:
  - a) The Health Sensor will go active and the vendor will go out of service if the vendor maintains a temperature warmer than  $-25^{\circ}F$  /  $-32^{\circ}C$  for a period in excess of 15 minutes.

#### F. Error Recovery:

- 1. 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.
- 2. VAC Keypad Security Feature:
  - a) The Service Keypad "VAC" button must be pressed to release the Keypad Security Feature and allow normal use.
- 3. Sold out bins and bin load errors:
  - a) 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.
- 4. Health Sensor Active:
  - a) 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.
  - b) 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.
- 5. Vendor Errors:
  - a) 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.
- 6. VAC Error Log:
  - a) 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.

#### VIII. PRODUCT DISPLAY SYSTEM

#### Setup and Users Guide

- A. Determine what products will be vended and what the sale price will be.
- B. Locate the Product Card Pack and the Price Sticker Sheets from inside the delivery bin.
- C. Locate the Display Cards that correspond with the products that will be vended from the machine.
- D. Locate the Price Stickers that will correspond with each product.
- E. Access the Display Card Holder.
  - 1. Ice Cream Machines (12 select) remove the Display Card Holder from in front of the lower Light Fixture. It may be necessary to loosen the (4) lower light fixture retainer wing nuts and move the lamp away from the glass.
  - 2. Café 2 Go Machines (20 select) Open the front door and then access the Display Card Holder from behind the front door glass.
- F. Install the Price Stickers and then the Display Cards behind the retainer tabs in the appropriate slots and on the Display Card Holder.
- G. Ice Cream Machines install the Display Card Holder in front of the lower Light Fixture. Align the light fixture and Card Holder. Tighten the wing nuts.

#### IX. 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 preconfigured 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.

#### A. Product Loading:

- 1. 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.
- 2. 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.
- 3. "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.

#### Notes:

It is important to program the bin selections located on the left as short bins; the rest are tall bins. However, short and tall bin locations may vary based on the specific freezer in your machine. The short bins are shaded in Fig 8 (Sample). 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.

#### Setup and Users Guide

#### 4. Loading:

- a) Remove bins, one at a time. Open each bin and move product to the top of the bin. Place new product below the older product so that the older product will be vended first.
- b) Product should always be level inside the bins. Alternate product direction when loading cone bins.
- c) Wrapper seams must always face down.
- d) Styrofoam spacers should be used to prevent small products from shifting in the bins.
- e) No product should have more than ½-inch of space from left to right and from front to back within each bin.

#### General Considerations:

- a) 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.
- b) Keep a copy of each machine's bin plan-o-gram on file as a reference and as a backup if necessary.
- c) 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.
- d) Always load product from the bottom up so that the oldest product will be vended first (FIFO: First In First Out).
- e) 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.
- f) 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.
- g) 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.
- h) 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.

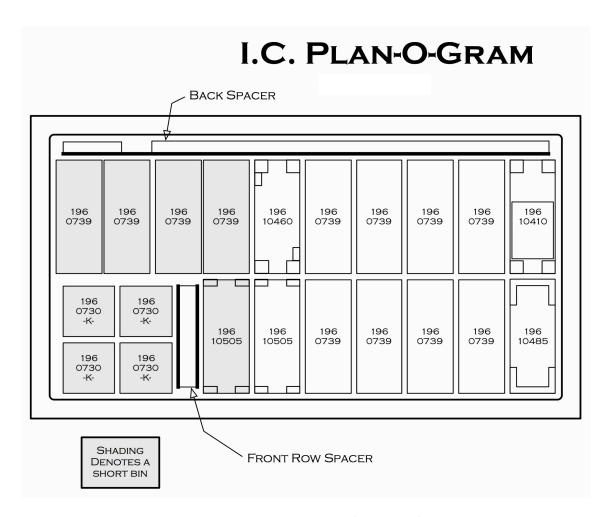


Figure 1 Sample Plan-O-Gram (Aerial View)

#### X. PROGRAMMING

A. Introduction. 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. NOTES:

- 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 <u>NOT</u> over-tighten the T-Handle. Rotate the T-Handle until the Display changes to, "Please Insert Money", then turn the handle two additional revolutions and push it in. Over-tightening the T-Handle may result in damage to the T-Handle Assembly and may prevent normal operation.
- B. SERVICE MENU OPTIONS:

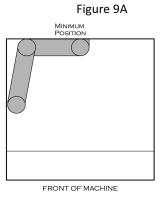
- 1. CHANGE PRICE: Allows the prices to be changed.
- 2. SALES METERS: Allows sales data to be viewed.
- 3. EDIT SELECTION: Allows existing selections and bin positions to be edited. Allows bins to be added to existing selections.
- 4. CREATE SELECTION: Allows a selection to be created.
- 5. DELETE SELECTION: Allows a selection to be deleted.
- 6. SELECTION NUMBERS: Allows programmed selection numbers to be viewed. (Use to check for erroneous selections).
- 7. SET DATE & TIME: Allows date and time to be set or viewed.
- 8. AUTO VENDS: Used internally to cycle-vend machines under test.
- 9. 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, Test, Super Cold or Food.
- 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 vacuum pump 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.
- 23. MDB SETTINGS: Allows specific settings for currency system:
  - a) 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 vend.
  - b) Change Bill Similar to forced vend but focuses only on bills that have been accepted, whereas force vend is also concerned with coins.
  - c) Hold Lost Credit Funds that could not be returned to a customer during a vending are available for another transaction.
  - d) Multi Vend Change is not automatically returned after a transaction, but held for another transaction. Press the coin return button to receive your change.

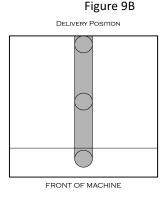
- e) Lev 2 Coin Mech When set to "N" (default), the coin mechanism will determine optimum change. If set to "Y", the VMC will determine what coins to give back as change, regardless of the capabilities of the coin mechanism. Power to the VMC must be cycled off and back on after changing this setting.
- f) Instant Reval 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.
- 24. SOFT DROP: Allows enabling and setting the "Soft-Drop" feature that lowers the product before it releases it into the product chute.

#### C. GETTING STARTED

#### CALIBRATING THE ROBOT ARM

- a) 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.
- b) Scroll to menu # 4) Create Selection.
- c) 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"
- d) Now you will be prompted to "SET ARM AT DELIVERY". Position the arm as shown in figure 9B. Press the "#" key to accept. Display will show "SELECTION STORED"
- e) Display should return to "4) CREATE SELECTION"
- f) You may now program your selections as described in the "PROGRAMMING YOUR MACHINE" section.





## 2. Re-calibrating the Robot Arm

- a) If the Robot Arm or VMC Board needs to be upgraded or changed, the Robot Arm calibration will need to be erased and recalibrated. The arm may be recalibrated without losing programmed information, but take care to follow the instructions, precisely.
- b) Press the VAC button on the Service Keypad to release the security locking feature.
- c) 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

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

	Arm Uncalibr	ated	
*-Next	D-Back	#-Yes	

- e) 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
- f) 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"

#### 3. ERASE ALL PROGRAMMED INFORMATION:

- a) On occasion it may become necessary to erase all programmed and sales data.
- b) Press the VAC button on the Service Keypad to release the security locking feature.
- c) 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	

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

	ARM UNCALIBE	ATED	
*-Next	D-Back	#-Yes	

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

	PRODUCTS CLE	ARED	
*-Next	D-Back	#-Yes	

f) 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"

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- g) 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"
- h) You may now program your selections as described in the "PROGRAMMING YOUR MACHINE" section.

## D. SERVICE MENU:

# 1. Change Price –

a) Changes the Price of programmed selections.

<u>Display</u>				Programming Instructions
1) Change Price			ce	a) Press the # = Yes key to enter Menu
* = NEXT	D=Bac	D=Back #=Yes		Option
Edit Selection				b) Enter the selection number
	# - Exit			
	A1 Price:	1.00		c) Type over the price. Press # to accept
* = Exit		* = Exit		
A1 Price: 1.50				d) Press the # = Accept key to enter the
* = Exit		*	= Exit	price change

# 2. SALES METERS –

a) 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	
Pro * = Next	gramming Instructi D = Back	ons # = Yes	a) Press the #=Yes key to enter Menu Option	
	Total Vends * = Nx	t	b) Total Meter count of units sold.	
	975		Press *=Nxt to continue.	
-	Total Value * = Nx	t	c) Total Meter count in currency	
	1575.30		Press *=Nxt to continue	
Selection		A1	d) Press the * key to scroll through selection numbers	
25	25 40.0		to view sales data.	
Selection	Selection A2		e) Press the * key to scroll through selection numbers	
25		72.50	to view sales data.	
Reset Vend	ls	* = Nxt	f) View Total Resettable units sold. Press *=Nxt to	
		225	continue	
Reset Value	e	* = Nxt	g) View Total Resettable Sales in currency. Press *=Nxt	
		375.25	to continue.	
Reset Card	1	* = Nxt	h) View Total Resettable Sales in Credit Card.	
		115.50	Press *=Nxt to continue.	
Clear All OK?	* = No	# = Yes	i) Press # to clear Resettable Meters and continue.	
	Resettables Cleared		j) Long beep and Resettable Meters will be reset to 0.	

#### b. EDIT SELECTION-

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

Display			Programming Instructions
3) EDIT SELECTION			a) Proce the #-Vec key. The repet will go to the delivery
* = Next	D = Back	# = Yes	a) Press the #=Yes key. The robot will go to the delivery point and the freezer lid will open.
ENTER SELECT #			b) Enter selection number to be edited.
# - Exit			

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A1 Price:	1.00	c) Type over the price and press the "#" key.
*=Exit	#=Accept	
A1	Move The Robot	d) Adjust the position of the robot over the bin. Press
*=Cancel	#=Accept	"#" key to save the bin location.
Bin Height:	Tall	e) Select Tall or Short by pressing the *key. Press # to
*=Change	#=Accept	accept.
More Bins?		f) Press the #=Yes key to add additional (chained) bins
*=No	#=Yes	or press * to exit menu.

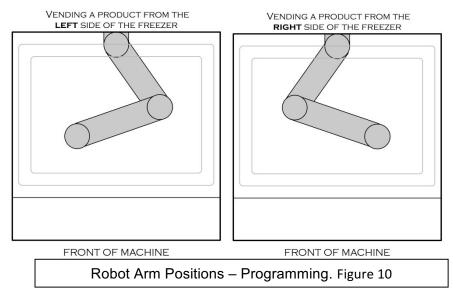
## 3. CREATE SELECTION -

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

#### NOTE:

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\*\*\*



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

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#### 4. DELETE SELECTION –

a) Delete any/all selection(s).

Display			Programming Instructions
Ţ	) DELETE SELECTIO	N	
* = Next	D = Back # = Yes		a) Press the #=Yes key to enter Menu Option.
Delete S	election #: A1 (All se	elections)	b) Press the #=Next key to scroll through selection
# - Exit	D=Del	#=Next	numbers. Press the D=Delete key to choose the selection.
Delete Selection # A5			c) Press the #=Yes key to delete selection
OK?	*=No	#=Yes	

# 5. SELECTION #S -

a) View programmed selection numbers.

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

#### 6. SET DATE & TIME –

a) Set or view the current date and time.

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

## 7. AUTO VENDS –

a) 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	a) Press the #=Yes key to enter menu option.

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AUTO VENDS	N	b) Press *-Change to scroll from "N" to "Y"
*-CHANGE	#-EXIT	
AUTO VENDS	Υ	c) Auto Vends is "ON". Press # -EXIT menu. Pull out
*-CHANGE	#-EXIT	button on the Interlock/Service Switch to begin cycle.
*-EXIT	#-SAVE	
AUTO TE	ST IS ON	d) Momentary display.

## 8. SET SERVICE PHONE #

a) 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.
Р	hone (###) ### - ###	<b>!</b> #	b) Type in service phone number. Use the "ABCD" code
* save	ABCD=( )	# ex	to format your service phone number. A=( , B=) , C=SPACE , D= -
Р	hone (555) 555 - 123	34	c) Press *save to save your service number and exit.

#### 9. SALES PIN CODE -

a) 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

# 10. VEND BLOCK -

a) 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.

	Dis	play		Programming Instructions
	11) VEN	D BLOCK		
* = Next	D =	Back	# = Yes	a) Press the #=Yes key to enter Menu Option.
1 BEGIN	1 BEGIN 01:00		01:00	b) Enter the start time for the first Vend Block. Press
*-SAVE	*-SAVE #-NEXT		#-NEXT	*=Save to store time.
1 BEGIN	1 BEGIN		01:00	c) Enter "1" for AM or "2" for PM. Display will advance.
1-AM			2-PM	

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	ERIOD 1 Dam	d) Block 1 "on" time is displayed momentarily.
1 END	10:00	e) Type the time you want vending to resume and press
*-SAVE	#-NEXT	*- Save.
1 END	10:00	
1-AM	2-PM	f) Enter "1" for AM or "2" for PM. Display will advance.
END PE	RIOD 1	g) Block 1 "off" time is displayed momentarily.
10:0	0AM	
Sunday	OFF	h) Press # - Next to scroll through all days, press *-
*-CHANGE	#-NEXT	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	12:00AM	j) Enter the start time for the second Vend Block or
*-SAVE	#-EXIT	press # to exit.

## 11. VB PIN CODE

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

	Displ	ay		Programming Instructions
	12) VB PIN	N CODE		
* = Next	D = Back # = Y		# = 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.

## 12. HEALTH TIMER -

a) 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.
ŀ	HEALTH TIMER: OHr	S	
* = Next	D = Back	# = Yes	b) Press *=Next to scroll from 0 to 4 hours.
	HEALTH TIMER: 2hrs	5	
* = Next	D = Back	# = Yes	c) Press #=Yes to start timer.
[	DISPLAY FAHRENHEI	Т	d) Press * to select Fahrenheit or Centigrade. Press # to
* = Next	D = Back	# = Yes	accept.
	NAMA Ice Cream		e) Choose Health Control Mode. Press *=Next to scroll:
* = Next	D = Back	# = Yes	<ul> <li>NAMA Ice Cream (Default)</li> <li>NAMA Test mode. This does not change operation mode.</li> <li>Food</li> <li>Super-Cold</li> <li>Then press #=Yes</li> </ul>

#### 13. PROGRAM VERSION -

a) Shows the date and software version installed.

	Display		Programming Instructions
1	4) PROGRAM VERSIO	N -	
* = Next	= 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. Press any key to continue.

# 14. DISPLAY LANGUAGE

a) 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 LANGUA	GE	a) Press the #=Yes key to enter Menu Option.
* = Next	D = Back	# = Yes	
	English		
* = Next	D = Back	# = Yes	b) Press *=Next to scroll through language choices. Press #=Yes to accept.

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#### 15. LINE MODE -

a) 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	•	b) Press the *=Next key to scroll between options.
* = Next	D = Back	# = Yes	c) Press the #=Yes key to confirm the selection.

# 16. MACHINE SERIAL NUMBER -

a) 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.

	Disp	lay		Programming Instructions
* = Next	17) Machine Serial #  * = Next			a) 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 SAVED	)	c) Save serial number is confirmed.
USE FOR CHANGER SN?				d) Select 1 to assign this number to coin changer. Select 2 if no.
1-YES	1-YES 2-NO			d) Select option 1 or option2.

#### 17. FILL / DISPENSE:

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

	Display		Programming Instructions
	18) FILL / DISPENSE		
* = Next	* = Next D = Back # = Yes		a) Press the #=Yes key to enter Menu Option.
	Select Tube 1 to 5		b) Enter any tube number: 1 to 5 to dispense a coin and
	# - EXIT		view coin count.

## 18. TOKENS & COUPONS -

a) 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

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19	) TOKENS & COUPO	NS	
* = Next	D = Back	# = Yes	a) Press the #=Yes key to enter menu option.
Т	okens / Coupons o	ff	b) Press the "*" key to scroll between "On" and "Off".
*= Change	*= Change		c) Press the "#" key to accept selection.

#### 19. FIELD TEST

a) 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		<ul><li>b) Second line displays changes to the position of switches and encoders.</li><li>c) Move any motor by pressing the associated Service Keypad key.</li><li>d) Press "VAC" key. The Vacuum Pump will turn on then slowly turn off.</li></ul>
	Press # to Exit Test		e) Press * key to inspect position sensor values for
S X	XX	E YYY	Shoulder and Elbow Sensors.

## 20. U/D TRAVEL LIMITS

- a) This feature allows the customer to adjust how deep the Picker Tip will descend into both Tall and Short bins.
  - (1) Adjustment scale is in Encoder Pulses. Five Pulses = One Inch.
  - (2) Increase the number of pulses to go deeper into the bin. Too deep will cause the robot to attempt vending a bin.
  - (3) Reduce the number of pulses to go less deep into the bin. Not deep enough will leave too much product in the bin.

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

#### 21. VERIFY BINS -

a) 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) Verif	y All Bins		
* = Next	D = Back # =		# = Yes	a) Press the #=Yes key to enter Menu Option.
A1	A1 Move the Robot		ve the Robot	b) Position Robot Arm more accurately and / or press
*=Cancel #		#=Accept	#=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.	

#### 22. MDB SETTINGS

- a) Allows user to specify settings for currency system.
  - (1) 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.
  - (2) No Cheat Bills are not accepted if there is not adequate change for a refund in the event of a failed vend.
  - (3) Change Bill Similar to forced vend but focuses only on bills that have been accepted, whereas force vend is also concerned with coins.
  - (4) Hold Lost Credit Funds that could not be returned to a customer during a vend are available for another transaction.
  - (5) Multi Vend Change is not automatically returned after a transaction, but held for another transaction or until coin return is pressed.
  - (6) 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.
  - (7) Instant Reval 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.

	Disp	olay		Programming Instructions
	23) MDB	Settings		
* = Next	D = I	Back	# = Yes	a) Press the #=Yes key to enter Menu Option.
Force Ven	Force Vend		N	b) Press *=Change to change setting and # to accept
*=Change	*=Change		#=Accept	choice.
No Cheat	No Cheat		Υ	c) Press *=Change to change setting and # to accept
*=Change			#=Accept	choice.
Change Bill			N	d) Press *=Change to change setting and # to accept
*=Change			#=Accept	choice.
Hld Lost Crdt			Υ	e) Press *=Change to change setting and # to accept

*=Change	#=Accept	choice.
Multi-Vend	N	f) Press *=Change to change setting and # to accept
*=Change	#=Accept	choice.
Lev2 Coin Mech	N	g) Press *=Change to change setting and # to accept
*=Change	#=Accept	choice.
Instant Reval	Y	h) Press *=Change to change setting and # to accept
*=Change	#=Accept	choice.

#### 23. Soft Drop -

a) Allows the Vacuum Pump 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".

	Dis	olay		Programming Instructions
	24) So	ft Drop		
* = Next	D = Back # = Yes		# = Yes	a) Press the #=Yes key to enter Menu Option.
*=Turn Of	Use Up / Down Keys  *=Turn Off #=Accept			b) Use Service Keypad up/down keys to adjust soft drop level and press #= Accept.
14111 61	-14111 011		" Mecept	c) Press * to turn function "OFF".
Saved				New Soft Drop release height is saved.
*=Turn Of	*=Turn Off #=Accept		#=Accept	New Soft Drop release fleight is saved.

- E. Instructions to Flash Update DIVI Firmware PRIOR to V119K
  - 1. Necessary tools and components:
    - a) Micro SD Card 1 to 2 GB.

Note: DIVI program updates can be sent via e-mail and saved to a Micro SD Card. This may require the use of an SD adaptor and possibly a USB adaptor.

- 2. Open the DIVI machine door and turn the VMC power "OFF". The power switch is located on the left side of the Power Supply under the delivery bin.
- 3. Open the inner door located to the left of the window opening.
- 4. 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.
- 5. The Microprocessor (daughter) Board is located on the upper right corner of the VMC Board. 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 daughter board.
  - a) The Micro SD card should be inserted straight down into the slot.
  - b) The contacts on the Micro SD card must face away from you.
  - c) The lettering on the card will be facing you.
  - d) There should be an audible "click" when the card is seated.
  - e) If the card does not drop smoothly into the slot, remove and retry.

BOOT LOADER UPGRADE: To be installed prior to major program revisions. (From Program Revision Prior to 119K)

<sup>\*\*\*</sup>DO NOT FORCE THE MICRO SD CARD INTO THE SLOT\*\*

- 6. Turn the Power Supply power switch "ON".
- 7. 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. Use the "\*" key to scroll to the latest or highest number version of the boot loader.
  - a) The boot loader version will be displayed in the "BOOTVxxx.bi2" format, where "xxx" is the numeric revision number. For example, BOOTV238.bi2.
- 8. Press the pound "#" key. The Display will read:
  - a) PROGRAMMING
  - b) BootVxxx.bi2
  - c) An LED status light on the right side of the board will start flashing rapidly. When the process is complete, the display will read:
    - (1) Update success.
    - (2) Remove card.....
- 9. Press down gently on the top of the card and let go. The card will slide up slightly in the sleeve. Leave the Micro SD card in the slot. The Display will read:
  - a) BOOT UPDATE xxx
  - b) Done!
  - c) The Display will change to read:
    - (1) BOOT LOAD xxx
    - (2) Out of Service

PROGRAM REVISION UPGRADE: (From Program Revision Prior to 119K)

- 10. Gently, press down on the Micro SD card so that it locks into the slot. 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
    - (1) Press "3" to load new firmware.
- 11. Use the asterisk "\*" key to scroll through the contents of the Micro SD card. Scroll to the latest or highest number version.
  - a) The program version will be displayed in the "FC0xxxy.bi2" format, where "xxx" is the numeric revision number and "y" is the alphabetic revision suffix. For example, FC0124J.bi2.
- 12. 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..."
- 13. To remove the Micro SD card, press down on the top of the card. It will slide up enough for you to lift the 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.

#### Setup and Users Guide

- Your programming data will need to be re-entered after this upgrade. Go to Service Menu Option 4) Create Selection, Press "#" and follow the prompts to program your machine. Going forward, the data will be saved and automatically re-installed as part of the upgrade process.
- 14. You can save a copy of your bin configuration onto your Micro SD Card as a backup file or to use to program other machines. Insert the card into the slot on your board after programming your first machine.
  - a) Press "2" to "Save Config".
  - b) Choose a name for your bin configuration and save the file onto your Micro SD card (see Fig. 12 in the next section). Remove the card from the daughter board.
  - c) To upgrade additional machines install the Boot Loader and Program Upgrades per instructions. To install the bin configuration, insert the Micro SD card, Press "1" to "Load Config". Use the \* key to scroll through the configuration files then press # to install the bin configuration for your machine.
  - d) Go to Menu 22) Verify Bins to confirm accuracy. Make adjustments if necessary.

Contact Fastcorp Tech Support at 888-441-3278 if you have any questions.

- F. Instructions to Flash Update DIVI Firmware After Revision V119K2
  - 1. The DIVI firmware after revision V119K2 provides many upgrades that have enhanced the functionality and versatility of the DIVI Vendor. More notable additions include the ability to:
    - a) Load a machine configuration from a Micro SD card
    - b) Save a machine configuration to a Micro SD card
    - c) Load new Firmware from a Micro SD card
    - d) Save DEX sales data to a Micro SD card
  - 2. 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.
  - 3. 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:

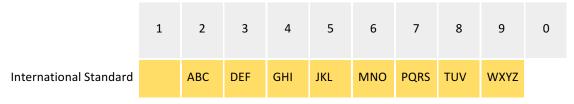


Fig. 12 Phone Dial Pad

- 4. To name a configuration, "BINS":
  - a) Press the number 2 twice = B
  - b) Press the number 4 three times = I
  - c) Press the number 6 twice = N
  - d) Press the number 7 four times = S

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

- 5. 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.
- G. Instructions to Update Firmware after Revision V119K:
  - 1. Necessary tools and components:
    - a) Micro SD Card 1GB to 8GB.
  - 2. Open the DIVI machine door.
  - 3. Open the inner door located to the left of the window opening on the inside of the door.
  - 4. 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.
  - 5. The Microprocessor (daughter) Board is located on the upper right corner of the VMC Board. 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 daughter board.

#### Notes -

- The Micro SD card should be inserted straight down into the slot.
- The contacts on the Micro SD card should face away from you.
- The lettering on the card will be facing you.
- There should be an audible "click" when the card is seated.
- 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: (Firmware after Revision V119K)

- 6. 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
- 7. 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.
- 8. We recommend that you also save your DEX data. Push down on the Micro SD card again while it is still in the slot and when the scrolling display again appears, enter "4" to save and name your DEX file(see Fig. 12).
- 9. Major Program Upgrades may require a Boot Loader Upgrade in addition to the Program Upgrade. Check with Fastcorp Service to determine if the boot loader upgrade is necessary. If it is not necessary, skip to instruction number 12.

#### Note:

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

BOOT LOADER UPGRADE: (Firmware after Revision V119K)

#### Setup and Users Guide

- 10. The MICRO SD Card should still be in the Daughter Board slot. Press down on the card as before. The Display will scroll between the options on the Micro SD Card menu:
  - a) Micro SD Ready...
    - (1) Load Config.
    - (2) Save Config.
    - (3) Load Firmware
    - (4) Save DEX Sales
    - (5) Enter "3" to load new firmware.
- 11. 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.
  - a) The boot loader version will be displayed in the "BOOTVxxx.bi2" format, where "xxx" is the numeric revision number. For example, BOOTV238.bi2.
- 12. Press the pound "#" key. The Display will read:
  - a) PROGRAMMING
  - b) BootVxxx.bi2
- 13. An LED status light on the right side of the board will start flashing rapidly. When the process is complete, the display will read:
  - a) Update success.
  - b) Remove card.....
- 14. 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:
  - a) BOOT UPDATE xxx
  - b) Done!
  - c) The Display will change to read:
    - (1) BOOT LOAD xxx
    - (2) Out of Service

PROGRAM REVISION UPGRADE: (Firmware after Revision V119K)

- 15. The MICRO SD Card should still be in the Daughter Board slot. Press down on the Micro SD card so that it locks into the slot. If The display will show Micro SD ready:
  - a) Load Config.
  - b) Save Config.
  - c) Load Firmware
  - d) Save DEX Sales

Enter "3" to load new firmware.

- 16. There may be more than one program version contained on the card. Use the "\*" key to scroll to the latest or highest number version.
  - a) The program version will be displayed in the "FC0xxxy.bi2" format, where "xxx" is the numeric revision number and "y" is the alphabetic revision suffix. For example, FC0120F.bi2.
- 17. 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..."
- 18. 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.

# Setup and Users Guide

- 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.
- 19. If your bin configuration had not been saved, reinsert your Micro SD card into the Daughter Board slot.
  - a) Press1 to Load Config.
  - b) Choose the name that you used to save your bin configuration.
  - c) Test-vend selections to confirm accuracy. Go to Service Menu 22) Verify Bins to check accuracy and make adjustments if necessary.

Contact Tech Support at 888-441-3278 if you have any questions.

#### H. 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:

- 1. Idle State:
  - a) The Robot Arm is at the delivery position with the freezer closed.
- 2. Vend Cycle Begins:
  - a) 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.
  - b) 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.
- 3. Freezer Open:
  - a) Control waits for one of the following conditions to occur:
  - b) The Freezer Open Switch is detected.
  - c) The seven second timer expires and the Freezer Lid is still not open.
  - d) A period of time has elapsed without "seeing" Freezer Encoders.

- 4. A Freezer Lid Lift Motor over-current is detected.
  - a) 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.
- 5. Retrieve Inside Cabinet:
  - a) 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 Vacuum Pump up and to maintain the Z Home Switch in an active state. Control waits for one of the following conditions to occur:
    - (1) The intermediate cabinet position is reached.
    - (2) The timer monitoring the Robot Arm expires.
    - (3) A Robot Arm over-current condition occurs.
    - (4) The Robot Arm Angular Sensors report inaccurate data.
  - b) When the intermediate cabinet position has been reached, Control advances to the "Retrieve Product" state.
- 6. Retrieve Product:
  - a) "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 Vacuum Pump descends into a bin.
- 7. Pause
  - a) 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.
- 8. Z Down
  - a) We wait for one of the following to occur:
  - b) An increase in current through the Vacuum Pump circuit indicates that product has been detected.
  - c) Z Down timer expires.
  - d) Z Encoder Pulses are not detected or the signal is lost.
  - e) The Z Home Switch never goes inactive (open circuit).
  - f) 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.

#### 9. Z Up

- a) The Vacuum Pump remains ON as it ascends with the product out of the bin. Control waits for one of the following:
  - (1) The Z Home Switch is detected (active).
  - (2) Z Up timer expires.
  - (3) Z Encoder Pulses are not detected or the signal is lost.
  - (4) Current flow indicates a dropped product.
- b) 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.

#### 10. Deliver Inside Cabinet

- a) The Vacuum Pump 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 Vacuum Pump up and to maintain the Z Home Switch in an active state. Control waits for one of the following conditions to occur:
  - (1) The intermediate cabinet position has been reached.
  - (2) The timer monitoring the Robot Arm expires.
  - (3) A Robot Arm over-current condition occurs.
  - (4) The Robot Arm Angular Sensors report inaccurate data.
  - (5) Current monitoring indicates that the product dropped.
- b) When the intermediate cabinet position has been reached, Control advances to the "Deliver to Home" state.

#### 11. Deliver to Home

- a) 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.
  - (1) 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 Pump to release product into the Delivery Bin. After product has been released, the Z Motor will reel up the Vacuum Pump until the Z Home Switch is active.
  - (2) If the Line Mode feature had been enabled, Control will turn OFF the Vacuum Pump to release product into the Delivery Bin and set a 20 second timer. If a new vend request arrives, the vend cycle will begin anew. If no new vend request arrives, then Line Mode will time out after 20 seconds.
- b) Control will direct the freezer to close, set a timer and then Control will proceed to the "Freezer Close" state.

#### 12. Freezer Close

- a) We wait for one of the following to occur:
  - (1) The Freezer Closed Switch has been detected.
  - (2) The Freezer Open Switch is detected.
  - (3) The timer expires and the freezer is still not closed.
  - (4) A period of time has elapsed without "seeing" freezer encoders.
  - (5) A Freezer Lid Lift Motor over-current is detected.
- b) 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.
- 13. Cleanup

# Fastcorp, LLC DIVI Setup and Users Guide

a) 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 Vacuum Pump has returned to the garage, 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.

# Fastcorp, LLC DIVI

## Setup and Users Guide

#### XI. APPENDIX

- A. DIVI Lid Lift Mechanism Replacement and Installation Instructions
  - Necessary Tools and Accessory Items:
    - a) ¼" wrench;
    - b) 3/8" wrench;
    - c) 5/16" wrench;
    - d) cutting pliers;
    - e) (8) Cable Ties 7-½"

The Fastcorp DIVI Lid Lift Mechanism can be removed and replaced in approximately 30 to 45 minutes.

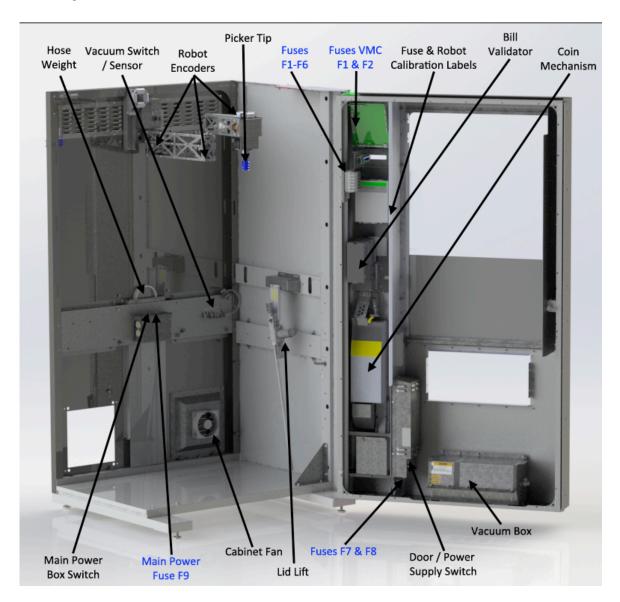
- 2. Locate the power switch on the left side of the Power Supply under the delivery bin and turn it "OFF" to remove power to the VMC Board and the Freezer Lid Lift Mechanism.
- 3. Reach down behind the freezer to unplug the 2 pin connector for the circulation fan.
- 4. Reach behind the freezer (right rear corner) to unplug the 2 pin thermistor connector. The harness will be labeled, "freezer". Be careful of sharp edges inside the cabinet.
- 5. 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.
- 6. 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.
- 7. Carefully cut and remove the cable ties that hold the harness in place.
- 8. 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.
- 9. 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.
- 10. Remove the Lid Lift Mechanism and carefully pull the harness through the cabinet reinforcement bracket.
- 11. 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.
- 12. 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.
- 13. 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.

- B. DIVI Robot Arm Installation Instructions
  - 1. Necessary Tools and Accessory Items:
    - a) Phillips screwdriver, #2; 5/16" wrench; cutting pliers;
    - b) (5) Cable Ties 7-½"
  - 2. Locate the power switch on the Power Supply under the delivery bin and turn it OFF to remove power from the VMC Board and Robot Arm.
  - 3. Grab the hose at its access point to the robot arm and press the up button, this will retract the hose until free from rollers, pull hose out from robot and set aside.
  - 4. Open the wire channel that contains the ribbon cable and disconnect the connectors from the VMC Board (J6 and J7). Make note of the connector orientation on the VMC. The Robot Arm Harnesses are routed through (2) black plastic wire channels located on the top of the right and rear cabinet walls. To open the wire channels, begin at the channel end closest to the Robot Arm and use your thumb to push up on the bottom of the channel while also pulling out on the top of the channel. The channels should unlatch on top while hinging on the bottom. Remove the harnessing from the wire channels.
  - 5. Unplug the twelve pin connector located at the back of the robot arm (right side).
  - 6. Remove the two screws securing the metal cover. Pull it aside to expose the mounting bracket, note that this cover will remain attached to the robot by the harnessing and be careful not to damage the wires.
  - 7. The mounting shaft of the Robot Arm is clamped into a mount located on the back cabinet wall. The mounting shaft is held in place by (4) screws. Use either a 5/16" (8mm) socket wrench to <u>loosen</u> the (4) screws. Do not remove the (4) screws. Use one hand to support the Robot Arm while pulling out on the top of the hinged Robot Arm Clamp. When the clamp has been pulled out, the Robot Arm Shaft will drop down and out the bottom of the mount. The Robot Arm may now be removed from the machine.
  - 8. Remove the replacement Robot Arm from the packaging and carefully unspool the harness. The Robot Arm Mounting Shaft is pointed on one side and has a horizontal "notch" on the other. The pointed side of the mounting shaft should face the rear cabinet wall as the shaft is installed back into the mount. As you slide the shaft up into the mount, you should hear an audible "click" as the "notch" slides past the clamp on the bracket. Support the Robot Arm until the (4) retaining screws are tight.
  - 9. Reinstall the ribbon cables and connect the twelve pin connector and secure the robot arm cover.
  - 10. Plug the (2) connectors back into the VMC Board. It is critical to ensure that the orientation of these connectors is properly placed since the wire position is essential. Take care not to bend any pins as you seat the connectors. Replace the cable ties so that the Robot Arm Harness is positioned next to the Lid Lift Harness as it was before. The Robot Arm Harness must be positioned clear of the inner door and outer door as the doors are opened and closed. Take care that the harnesses are not pinched by either door.
  - 11. Review your work. Make sure that the Robot Arm fasteners are tight. Check all connections. Confirm that the Robot Arm moves freely without binding. Confirm that all wires and harnesses are positioned correctly and no wires are being pinched.
  - 12. Turn on the machine using the Power Switch on the left side of the Power Supply below the Delivery Bin. Position the Display Board so that it may be viewed from the back of the door. Press the "VAC" button to unlock the keypad.
  - 13. The new Robot Arm must be calibrated to the machine. Refer to the section on Calibrating the Robot Arm. Go to Service Menu Option 4) Create Selection. Press and hold the Reset button. The Display will first read, "THIS FORCES RE-SETUP" and then, "Arm Uncalibrated". Release the Reset button. If you continue to hold the Reset button you will erase all product selections and their freezer locations.

- 14. Press the pound (#) key to continue. (See Fig. 9A and 9B) The Display will instruct you to "Put Arm at Left Wall". Fold the Robot Arm so that the upper arm is against the back cabinet wall and the front of the Robot Arm is against the left side cabinet wall. Press the pound (#) key to accept. The Display will instruct you to "Set Arm at Delivery". Move the arm so it is straight out from the back wall with the Vacuum Pump housing in the front center position. Press the pound (#) key to accept.
- 15. At this point the calibration and installation process is complete. Your selections should still be programmed correctly. We recommend that you try a few test vends to verify the operation and price settings.

# C. Illustrations

c. DIVI Vending Machine



**DIVI Vending Machine** 

b1. 110v Fuse Table.

# **FUSE TABLE / TABLEAU FUSIBLE**

# ON CONTROL BOARD/SUR LE TABLEAU DE CONTRÔLE

VMC F2 (7.5A Mini / ATM / APM) VMC F1 (5A Mini / ATM / APM)

## ON FUSE BLOCK/SUR BLOC FUSIBLE

- F1 Shoulder Motor (0.8A TD)
- Épaule Moteur
- F2 Elbow Motor (0.8A TD)
- Coude Moteur
- F3 Fans (5A TD) Les Fans
- F4 Lid Lift Motor (5A TD) Couvercle Du Moteur De Levage
- F5 Up/Down Motor (2A TD)
- Couvercle Du Moteur De Levage

F6 - Vacuum Motor (5A TD) En Haut / En Bas Moteur

ON DOOR POWER SUPPLY BOX SUR LA BOÎTE D'ALIMENTATION DE LA PORTE

F7 - VMC Fuse (10A TD)

F8 - DC Lighting Fuse (3A TD) D'Eclairage Fuse

ON REAR POWER BOX SUR BOÎTE DE PUISSANCE ARRIÈRE

F9 - Main Power Fuse (12A TD) D'alimentation Principale

## 5mm x 20mm for Fuses F1 - F9

FA = Fast Acting/Action Rapide

TD = Time Delay/Temporisation

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Reorder No. 9000788-DIVI Rev 1

b2. 220v Fuse Table

# **FUSE TABLE / TABLEAU FUSIBLE**

# ON CONTROL BOARD/SUR LE TABLEAU DE CONTRÔLE

VMC F1 (5A Mini / ATM / APM) VMC F2 (7.5A Mini / ATM / APM)

## ON FUSE BLOCK/SUR BLOC FUSIBLE

- F1 Shoulder Motor (0.8A TD)
- Épaule Moteur
- F2 Elbow Motor (0.8A TD)
- Coude Moteur
- F3 Fans (5A TD) Les Fans
- F4 Lid Lift Motor (5A TD) Couvercle Du Moteur De Levage
- F5 Up/Down Motor (2A TD)
- Couvercle Du Moteur De Levage

F6 - Vacuum Motor (5A TD) En Haut / En Bas Moteur

# ON DOOR POWER SUPPLY BOX

SUR LA BOÎTE D'ALIMENTATION DE LA PORTE

- F7 VMC Fuse (10A TD)
- F8 DC Lighting Fuse (3A TD) D'Eclairage Fuse

#### ON REAR POWER BOX

SUR BOÎTE DE PUISSANCE ARRIÈRE

F9 - Main Power Fuse (8A TD) D'alimentation Principale

# 5mm x 20mm for Fuses F1 - F9

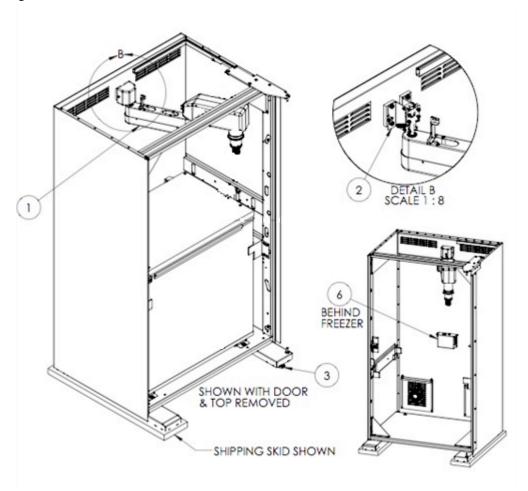
FA = Fast Acting/Action Rapide

TD = Time Delay/Temporisation

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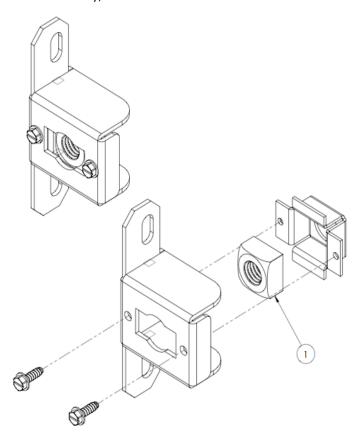
Reorder No. 9000883-DIVI Rev 1

# c. DIVI Vending Machine



	DIVI Vending Machine				
1	1 F003-A01460 Robot Arm Assembly				
2	F003-A03951	Robot Mount Assembly			
3	7000007	Leveler			
6	1200013	Power Box, Cabinet Assembly			

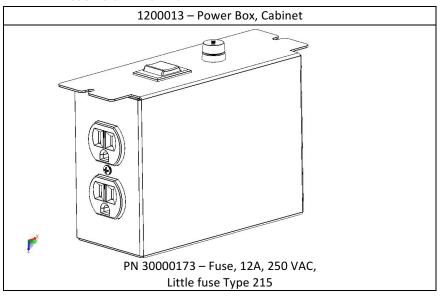
# d. Nut Bracket Assembly, T-Handle Lock



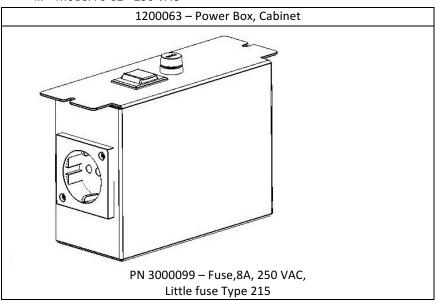
		1100017 - Nut Bracket Assembly
1	6100007	Nut Square ½-13

# e. Power Box – Cabinet

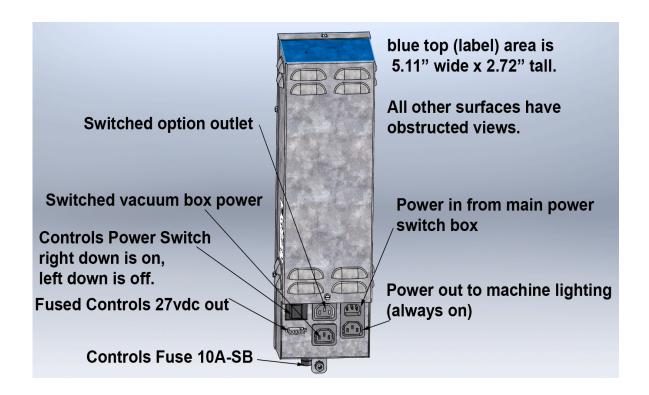
# i. Model FS-01 - 115 VAC



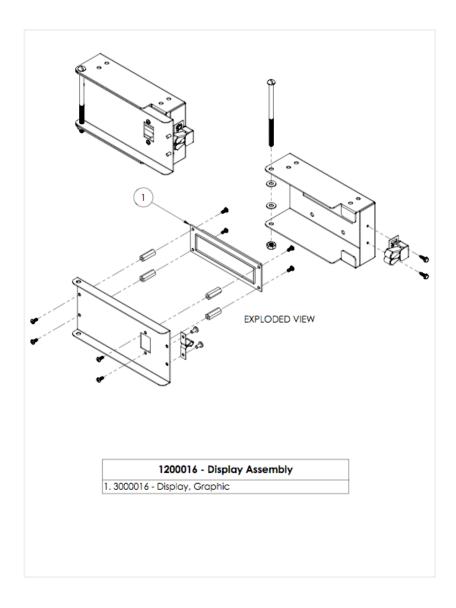
# ii. Model FS-02 - 230 VAC



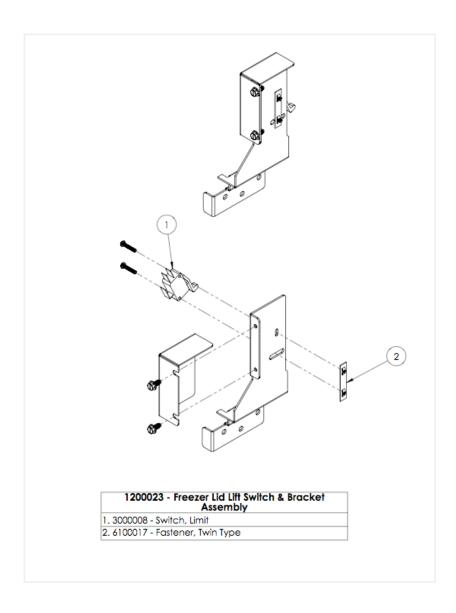
## f. Power Supply Assembly,



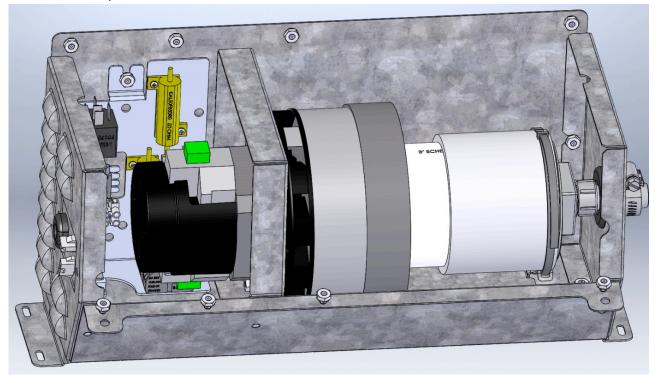
# g. Display Assembly



# h. Freezer Lid Closed Switch

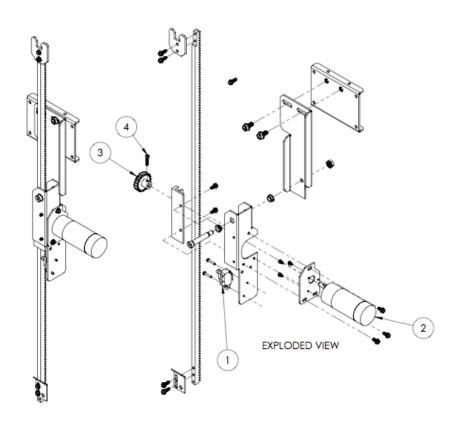


# i. Vacuum Assembly



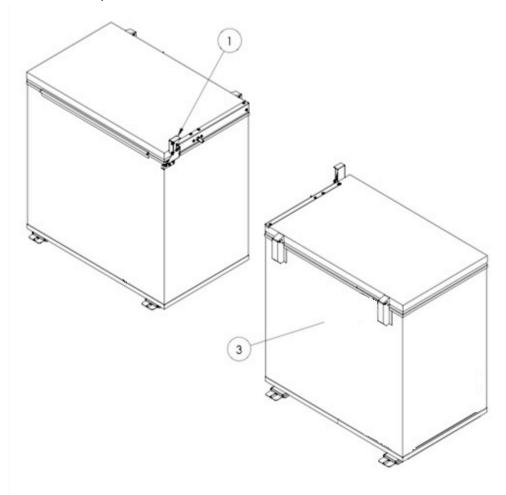
F003-A05431 - Vacuum Box Assembly

# j. Freezer Lid Lift Assembly



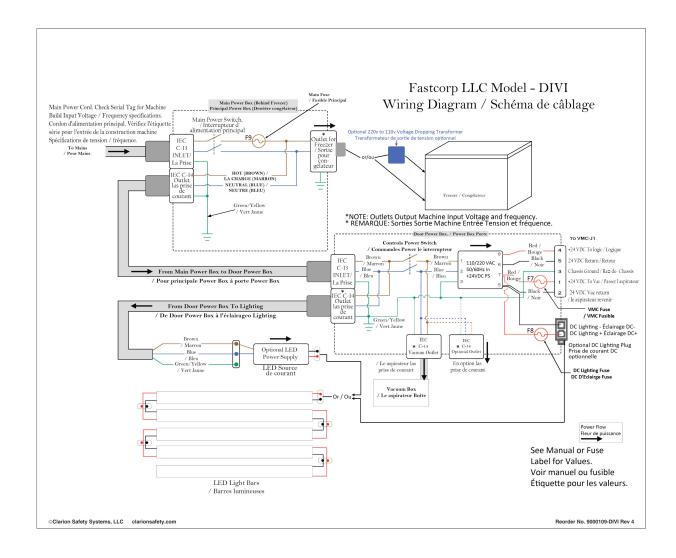
1100124 - Freezer Lid Lift Assembly			
1	49500566	Switch, Limit	
2	80450155001	Motor	
3	49500406	Gear, Sprocket	
4	48909121	6-32x5/8" Screw	

# k. Freezer Assembly



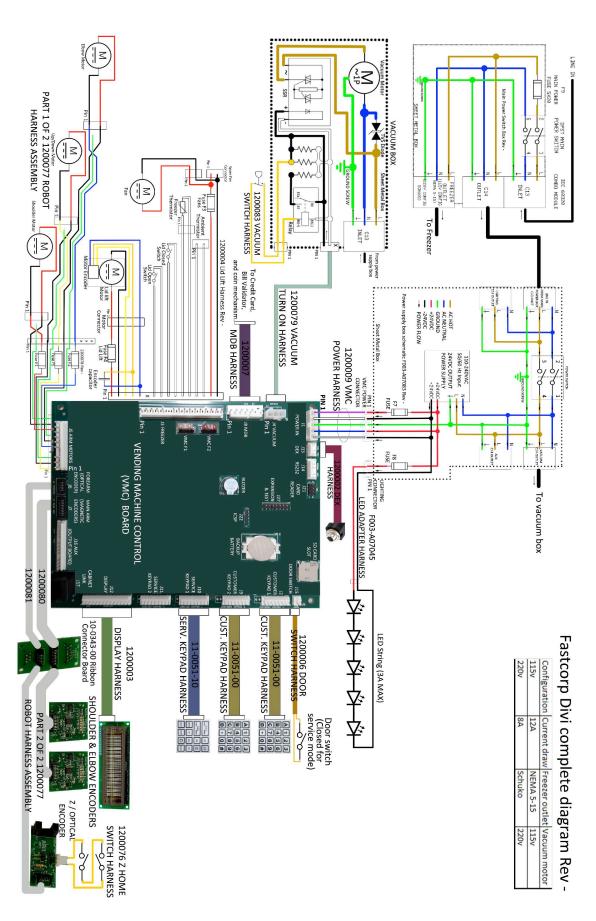
Freezer Assembly			
1	49500566	Freezer Lid Lift Switch	
2	80492557001	Thermistor (not Shown)	
3	CALL	Freezer	

#### I. Wiring Diagram



# Fastcorp, LLC DIVI Setup and Users Guide

m.



# n. VMC Connector layout

