VS0-CP Model shown

MAGIKIST

Stainless steel
Vacuum

Instruction Manual
v1.3

VS0 Free Standing Indoor or Outdoor Vacuum

C ETL LISTED US
Intertek

Thank you for purchasing a Magikist vacuum. Magikist vacuums are designed for ease of installation, operation, and maintenance. They are built ruggedly of stainless steel for years of use. Please read this manual fully before installing and operating your vacuum. Should you still have questions regarding your vacuum, please contact your supplier who can provide you with the answers you require.

For future reference, record the model and serial number located near the bottom of the vacuum body. In addition, if your vacuum has a lockable coin meter, please record the key numbers for both the upper portion and the money drawer of the coin meter. The key numbers are stamped on the keys.

Model# _____

Serial# _____

Key Numbers _____

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE.

- **All local and national electric codes must be followed for installation and use. Licensed electricians are recommended for installation.**

- **The vacuum must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.**

- **High voltage is present in the coin meter and under the top dome of the vacuum. Always disconnect power before performing service work inside the coin meter or the top dome of the vacuum.**

- **This equipment incorporates switches, motors, or similar parts that can produce arcs or sparks. When installed in a service station or other gasoline dispensing locations, install this appliance a minimum of 20 feet (6 meters) horizontally from the exterior enclosure of any dispensing pump and a minimum of 18 inches (45 centimeters) above ground level.**

- **Use only as described in manual with manufacturer approved parts and accessories.**

- **Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.**

- **Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.**

- **Do not use without filter bags in place.**

1) INSTALLATION

1.1) MOUNTING

Observe the IMPORTANT SAFTEY PRECAUTIONS section when choosing your location for installing the vacuum.

To prevent damage from vehicles, it is recommended the vacuum cleaner be mounted on a base a minimum of 18" high. If the vacuum is to be mounted on a concrete base, use 3/8" expansion type concrete anchor bolts to mount the vacuum to the base. Be sure to choose a location that allows the cleanout doors to open and have access to the cleanout bins inside.

It is recommended that the cover for the false bottom compartment be removed, the vacuum be carefully placed on the base, and the locations of the holes in the mounting tabs be marked. The vacuum can then be removed and the expansion bolts installed in the correct location in the concrete base. Refer to the drawing later in this manual detailing the mounting hole locations.

1.2) ELECTRICAL CONNECTIONS

All local and national electric codes must be followed for installation and use. Licensed electricians are recommended for installation.

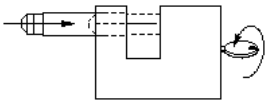
Grounding Instructions: This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

The electrical supply should be brought through the base into the false bottom area in the base of the vacuum. The connection for the electrical supply is made in the junction box located in the false bottom compartment. Access to the false bottom compartment is achieved by removing the 2 screws holding the false bottom compartment cover in place. Refer to the drawing later in this manual detailing the junction box. As well, consult the appropriate wiring diagram for your model of vacuum.

2.0 SETUP & OPERATION

2.1 VS0 (Coin Operated Models)

2.1.1) Coin Meter Block Locks

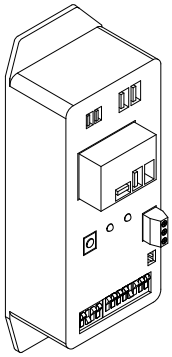


VS0 coin operated models are outfitted with a stainless steel coin meter. The coin meter is divided into an upper section, which houses the coin acceptor and timer, and a lower section, that is the money box where coins are collected once accepted. The coin meter uses a unique BlockLock locking system that provides maximum security, positive locking, and ease of use. Because of the high security provided by the BlockLocks, it is advised that a record of all key numbers be kept in case of key loss.

To open the faceplate or money box lock simply insert the key into the keyhole and turn 1/4 turn clockwise until the shackle ejects. Do not place your finger against the shackle when opening as the shackle is spring loaded. If the shackle does not eject far enough to permit the opening of the faceplate or money box, simply push the shackle back in and open the lock again. Note that once the lock is open the key cannot be removed until the lock is closed again.

To close the faceplate or money box lock, ensure that the faceplate or money box is fully inserted. Push the shackle in fully until it clicks into place and the key rotates counter-clockwise back to its original position. The key can now be removed from the lock. To ensure positive locking, the key cannot be removed from the lock until the lock is fully closed.

2.1.2) Coin Acceptor & Timer Setup



Behind the faceplate of the stainless steel coin meter is the MTV840 timer where both coin and time settings are made. The coin acceptor is mounted to the inside of the faceplate. **Before opening the faceplate, disconnect power to the vacuum.** Unlock the faceplate and set the faceplate on the top of the coin meter. The wire leads from the coin acceptor on the faceplate to the timer inside the coin meter are long enough to allow the faceplate to be set on top of the coin meter.

For vacuums equipped with iCoin electronic multi-coin acceptors, refer to the instruction manual supplied for the coin acceptor to set which coins the coin acceptor will be enabled to accept. **This step must be done first before making the coin and time settings on the timer.** Because the iCoin acceptor needs to be powered up for setup, ensure that the faceplate with the coin acceptor is sitting on top of the coin meter before reconnecting power. While power is reconnected, never access the inside of the coin meter as high voltage is present. Once you have finished with the setup of the iCoin acceptor, disconnect power before proceeding with the setup of the timer. Once you have established which coins the iCoin acceptor will be accepting, note which coin is the lowest value coin that the coin acceptor will accept. For example, if the coin acceptor is enabled to take $0.25, $1, and $2 coins, the lowest value coin it will accept is the $0.25 quarter. Likewise, if the coin acceptor is enabled to accept only $1 and $2 coins, then the lowest value coin the coin acceptor is enabled to accept is the $1 coin.

Disconnect power to the vacuum before accessing the MTV840 timer in the coin meter. The MTV840 timer has a row of DIP switches labeled **#Pulses to Start** and **Seconds Per Pulse.** To turn a switch on, depress the top side of the switch until it clicks positively into the down position. To turn a switch off, depress the bottom side until it clicks positively into the down position. Note the ON arrow points up which is the side of the switch that must be in the down position for the switch to be ON. Ensure that each switch is in either the on or off position, and not halfway in between.

Set the switches labeled **#Pulses to Start** such that they total the number of pulses required to start the vacuum. For vacuums equipped with the iCoin electronic mult-coin acceptor, the **#Pulses to Start** refers to the lowest value coin that was established in the setup of the coin acceptor.

For example, if the lowest value coin that the iCoin acceptor will accept is a $0.25 quarter, then to start the vacuum on 6 coins or 6 quarters, set switches 2 and 4 on. If the lowest value coin that the iCoin acceptor will accept is a $1 coin, then to start the vacuum on 2 coins or 2 coins, set only switch 2 on. For vacuums with mechanical acceptors that accept $1 coins only, the **#Pulses to Start** setting refers to the number for $1 coins required to start the vacuum.

Set the switches labeled **Seconds Per Pulse** such that they

The green POWER light on the timer shows that power is being supplied to the timer. The red LOAD light indicates that the vacuum is operating. The reset button resets the timer and cancels any existing time. Use a pen or similar object to press gently on the recessed reset button.

2.2 VS0 (Pushbutton Operated Models)

The non coin-operated pushbutton model has 2 pushbuttons, one start and the other stop, mounted on the front of the control box. Pressing the green start button will cause the vacuum to operate for a period of time as determined by the timer located in the the control box. Pressing the start button while the vacuum is operating will not add additional time to the current operating period. To stop the vacuum from operating prior to the end of the time period, press the red stop button.

The length of time that the vacuum will operate when the start button is pressed is set on the MTV840 timer. To access the MTV840 timer, remove the 4 screws holding the front cover to the box. **Before opening the front cover, disconnect power to the vacuum.** The MTV840 timer has two banks of switches labeled **#Pulses to Start** and **Seconds Per Pulse**. To turn a switch on, depress the top side of the switch until it clicks positively into the down position. To turn a switch off, depress the bottom side until it clicks positively into the down position. Note the ON arrow points up which is the side of the switch that must be in the down position for the switch to be ON. Ensure that each switch is in either the on or off position, and not halfway in between.

Set the switches labelled **#Pulses to Start** such that they are **ALL** in the OFF position. These switches must be set all OFF in order for the pushbutton operation to work correctly.

Set the switches labeled **Seconds Per Pulse** such that they total the number of seconds that the vacuum is to operate. For example, to configure the vacuum for 30 seconds per coin, set switches 2, 4, 8, and 16 ON. To configure the vacuum for 40 seconds per coin, set switches 8 and 32 ON. If all the **Seconds Per Pulse** switches are off, the vacuum will be set for 1 second per coin.

The green POWER light on the timer shows that power is being supplied to the timer. The red LOAD light indicates that the vacuum is operating. The reset button resets the timer and cancels any existing time. Use a pen or similar object to press gently on the recessed reset button.

2.3 VS0 (Toggle Switch Operated Models)

The non coin-operated toggle switch model has a single toggle switch to start and stop the vacuum. Move the toggle switch up to the on position to start the vacuum. To stop the vacuum move the toggle switch to the down off position.

3.0 MAINTENANCE

3.1 LOCKS

Because of the high security provided by the locks on your vacuum (VS0 coin operated models), it is advised that locks be maintained with a light lubricant (e.g. WD-40) such that they continue to operate smoothly.

3.2 MOTORS

Periodically inspect the brushes of the motors. Replace motors or motor brushes when the brushes are less that 3/8” in length.

3.3 FILTER BAGS

Filters bags should be inspected and cleaned frequently. To protect the vacuum motors, bags should be replaced immediately if there is an opening in a bag or if there are signs of wear that could lead to an opening in a bag.

3.4 CLEAN OUT BINS

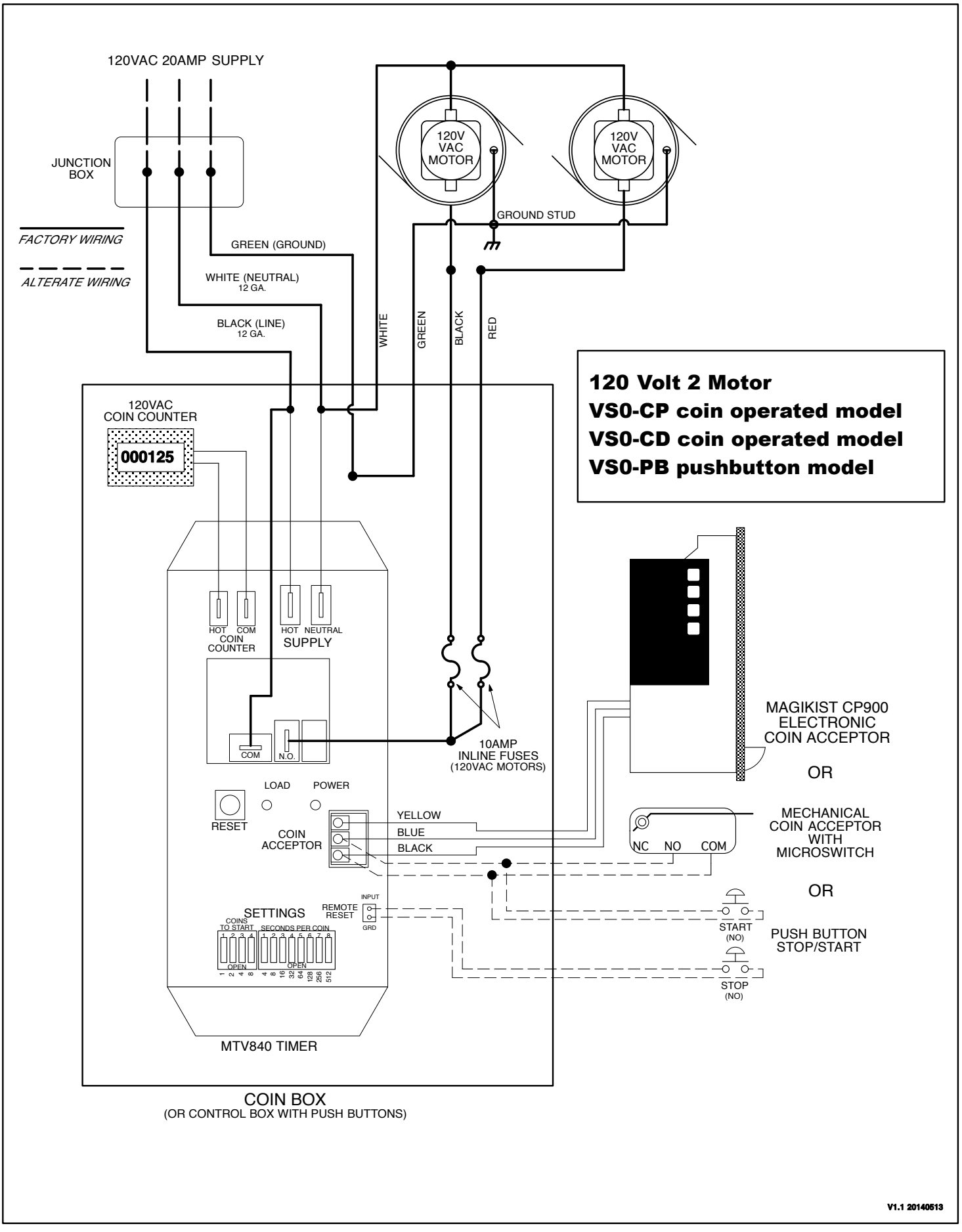
Disposing of dirt and dust that collects in the clean out bins on a regular basis will reduce the amount of dirt that the filter bags are exposed to. The bins are removed through the clean out door.

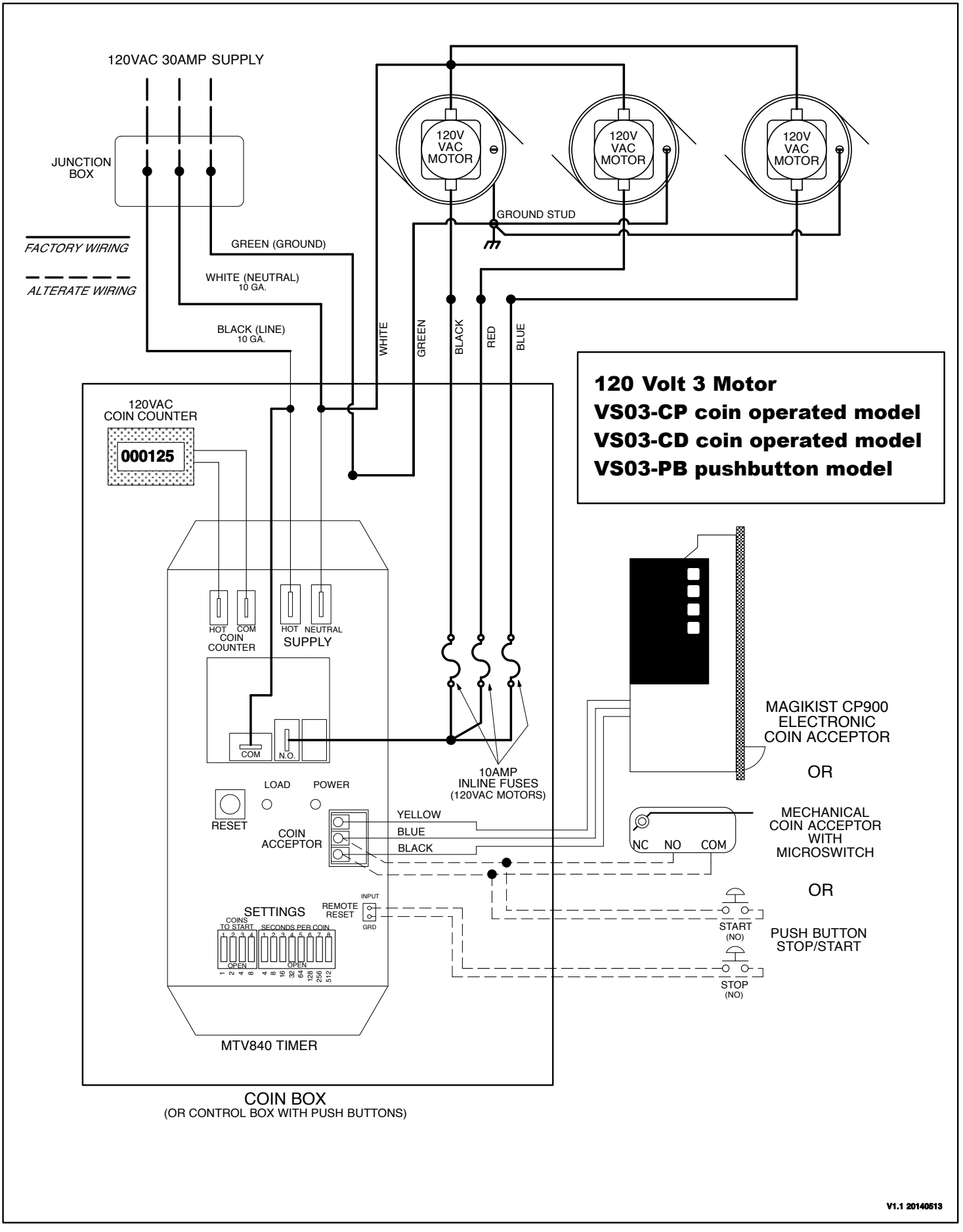
4.0 TROUBLESHOOTING

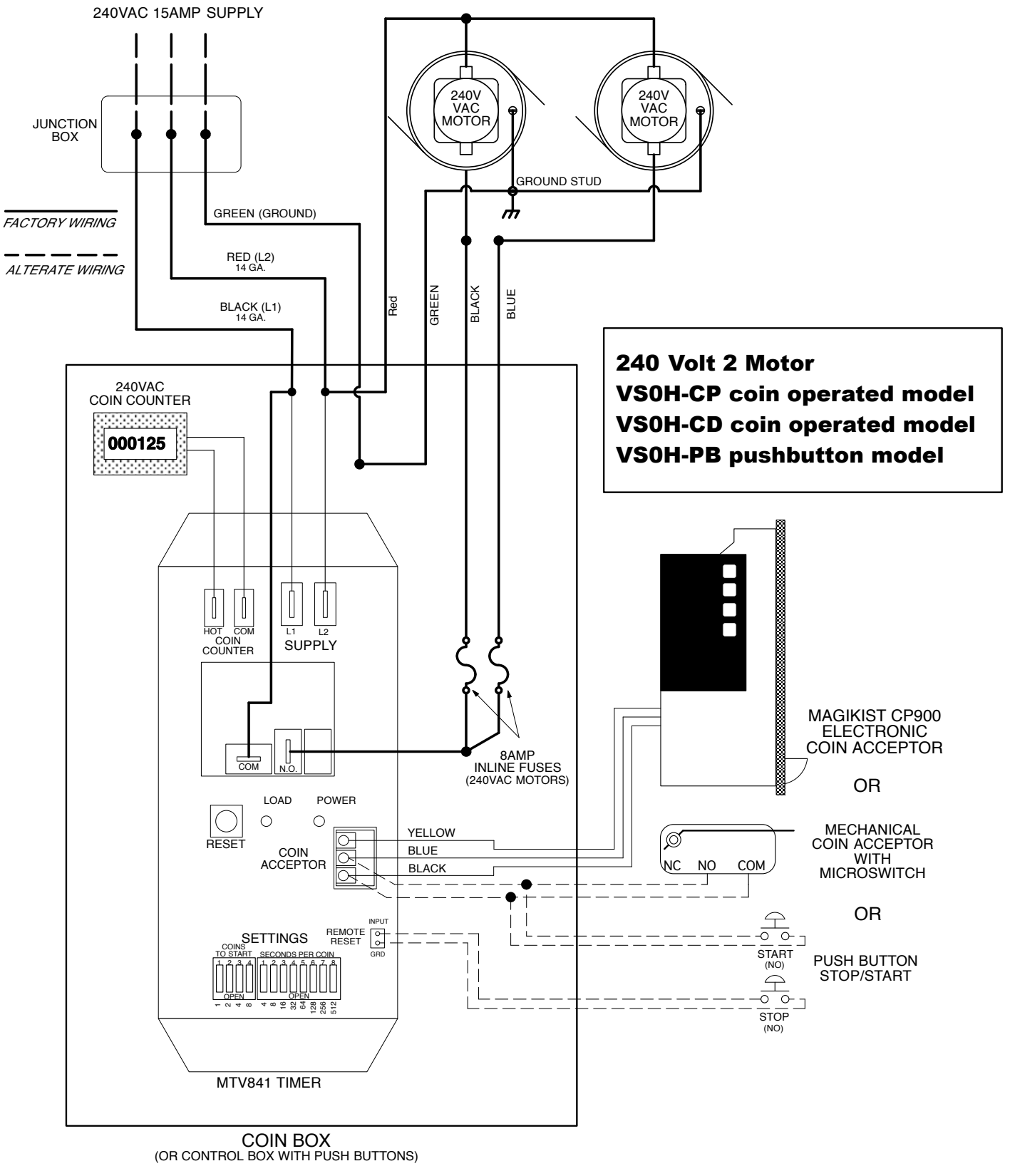
Symptom	Probable Cause	Corrective Action
Vacuum does not start.	No power to vacuum.	Ensure that 120 or 240 volts is being supplied at the junction box in the vacuum, depending on the power requirements of your model.
	Fuse or fuses blown.	Check and replace fuses to the vacuum motors. See Symptom *Vacuum motor fuses or fuses blown* for further action.
	Switch settings on timer are not set correctly (VS0 coin-operated or pushbutton operated models).	See section 2.1 or 2.2 to ensure that the timer is settings are correct.
	Stop button stuck in depressed position (pushbutton models)	Repair or replace stop button.
Vacuum does not stop.	Switch settings on timer are not set correctly (VS0 coin-operated or pushbutton operated models).	See section 2.1 or 2.2 to ensure that the timer is settings are correct.
	Timer or relay may not be working correctly.	Verify operation of timer or relay to ensure that it is shutting off vacuum motors.
Circuit breaker trips.	Electrical supply, including breaker and wire size, may not be sufficient to operate the electrical requirements of the vacuum and any other devices that may be operating on this same circuit.	Contact a certified electrician to check and ensure that breaker and wire size are sufficient for the vacuum and any other devices operating on the same circuit.
Vacuum motor fuse or fuses blown.	Motor brushes may be bad or shorted.	To confirm the problem is with one or more motors, use a clamp meter to measure the current draw of the motor(s). If the current draw exceeds the specifications of the motor(s) then replace the motor(s) or motor brushes.
No or low suction.	Hose cut or clogged with debris.	Check hose for cuts or debris and repair or replace as necessary.
	Filter bags clogged.	Check filter bags and clean.
	One or both of the motors may not be functioning properly.	Check motor fuses. If fuse is blown see Symptom *Vacuum motor fuses or fuses blown* for further action.
	Clean out doors not closed tightly with latch.	Ensure that latch is holding doors closed tightly. Latch can be adjusted if required.
	Clean out door gaskets or motor gaskets worn.	Replace leaking gaskets. Ensure that motors are held down securely by bracket or springs.

5.0 SPECIFICATIONS

Model & Description	Voltage	Amperage	Motors	Fuses
VS0	120	17	2	2 of 10A 3AB
VS03	120	25	3	3 of 10A 3AB
VS0H	240	8	2	2 of 8A 3AB
VS03H	240	11	3	3 of 8A 3AB


120VAC 20AMP SUPPLY
JUNCTION BOX
FACTORY WIRING
ALTERATE WIRING
GREEN (GROUND)
WHITE (NEUTRAL) 12 GA.
BLACK (LINE) 12 GA.
120V VAC MOTOR
120V VAC MOTOR
GROUND STUD
WHITE
GREEN
BLACK
RED
120 Volt 2 Motor
VS0-CP coin operated model
VS0-CD coin operated model
VS0-PB pushbutton model
120VAC COIN COUNTER
000125
HOT COM COIN COUNTER
HOT NEUTRAL SUPPLY
COM
N.O.
10AMP INLINE FUSES (120VAC MOTORS)
MAGIKIST CP900 ELECTRONIC COIN ACCEPTOR
OR
LOAD
POWER
RESET
COIN ACCEPTOR
YELLOW
BLUE
BLACK
NC NO COM
MECHANICAL COIN ACCEPTOR WITH MICROSWITCH
OR
INPUT
SETTINGS
REMOTE RESET
GRD
COINS TO START
SECONDS PER COIN
OPEN
OPEN
START (NO)
STOP (NO)
PUSH BUTTON STOP/START
MTV840 TIMER
COIN BOX
(OR CONTROL BOX WITH PUSH BUTTONS)
V1.1 20140513


120VAC 30AMP SUPPLY
JUNCTION BOX
FACTORY WIRING
ALTERATE WIRING
GREEN (GROUND)
WHITE (NEUTRAL) 10 GA.
BLACK (LINE) 10 GA.
120V VAC MOTOR
120V VAC MOTOR
120V VAC MOTOR
GROUND STUD
WHITE
GREEN
BLACK
RED
BLUE
120 Volt 3 Motor
VS03-CP coin operated model
VS03-CD coin operated model
VS03-PB pushbutton model
120VAC COIN COUNTER
000125
HOT COM COIN COUNTER
HOT NEUTRAL SUPPLY
COM
N.O.
10AMP INLINE FUSES (120VAC MOTORS)
MAGIKIST CP900 ELECTRONIC COIN ACCEPTOR
OR
LOAD
POWER
RESET
COIN ACCEPTOR
YELLOW
BLUE
BLACK
NC NO COM
MECHANICAL COIN ACCEPTOR WITH MICROSWITCH
OR
INPUT
SETTINGS
REMOTE RESET
GRD
COINS TO START
SECONDS PER COIN
OPEN
OPEN
START (NO)
PUSH BUTTON STOP/START
STOP (NO)
MTV840 TIMER
COIN BOX
(OR CONTROL BOX WITH PUSH BUTTONS)
V1.1 20140513



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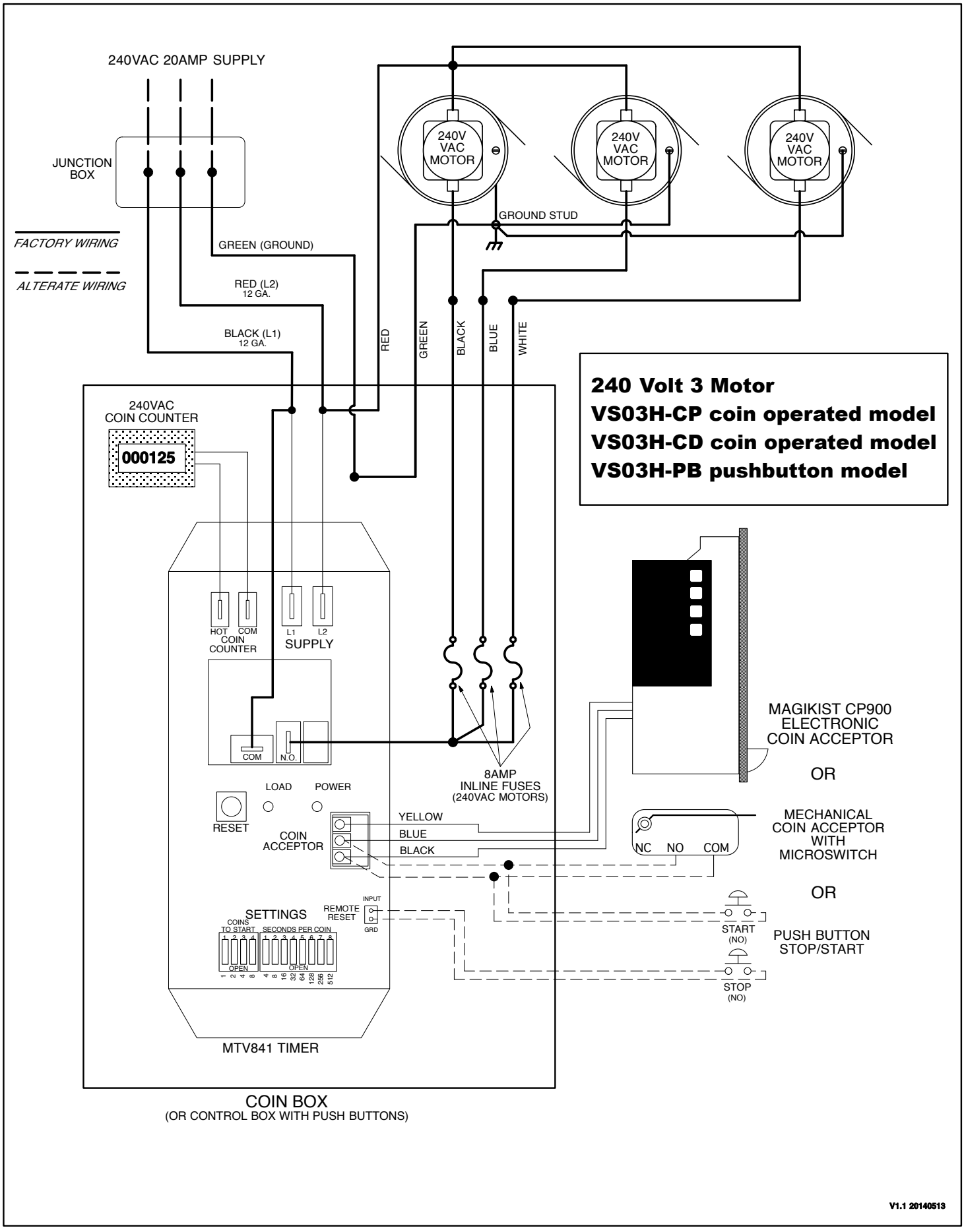
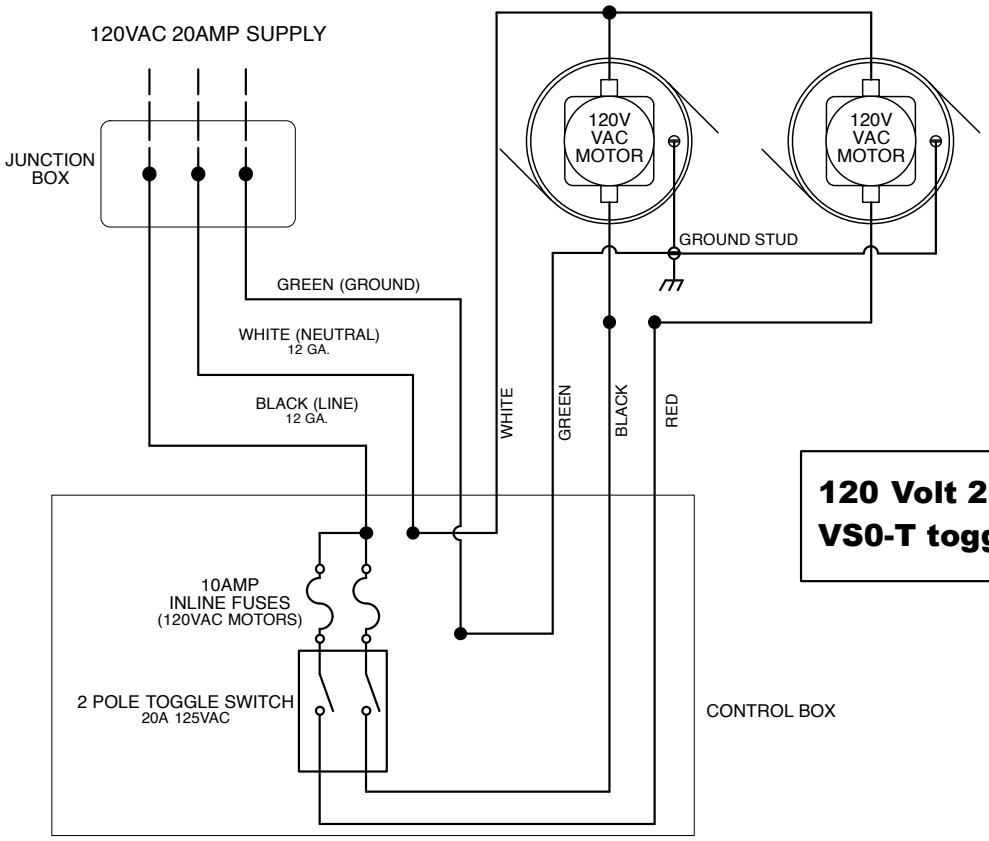

240VAC 20AMP SUPPLY
JUNCTION BOX
FACTORY WIRING
ALTERATE WIRING
GREEN (GROUND)
RED (L2) 12 GA.
BLACK (L1) 12 GA.
240V VAC MOTOR
240V VAC MOTOR
240V VAC MOTOR
GROUND STUD
RED
GREEN
BLACK
BLUE
WHITE
240 Volt 3 Motor
VS03H-CP coin operated model
VS03H-CD coin operated model
VS03H-PB pushbutton model
240VAC COIN COUNTER
000125
HOT
COM
COIN COUNTER
L1
L2
SUPPLY
COM
N.O.
8AMP INLINE FUSES (240VAC MOTORS)
LOAD
POWER
RESET
COIN ACCEPTOR
YELLOW
BLUE
BLACK
MAGIKIST CP900 ELECTRONIC COIN ACCEPTOR
OR
NC
NO
COM
MECHANICAL COIN ACCEPTOR WITH MICROSWITCH
OR
INPUT
REMOTE RESET
GRD
SETTINGS
COINS TO START
SECONDS PER COIN
OPEN
START (NO)
PUSH BUTTON STOP/START
STOP (NO)
MTV841 TIMER
COIN BOX
(OR CONTROL BOX WITH PUSH BUTTONS)
V1.1 20140513



120 Volt 2 Motor
VS0-T toggle switch model

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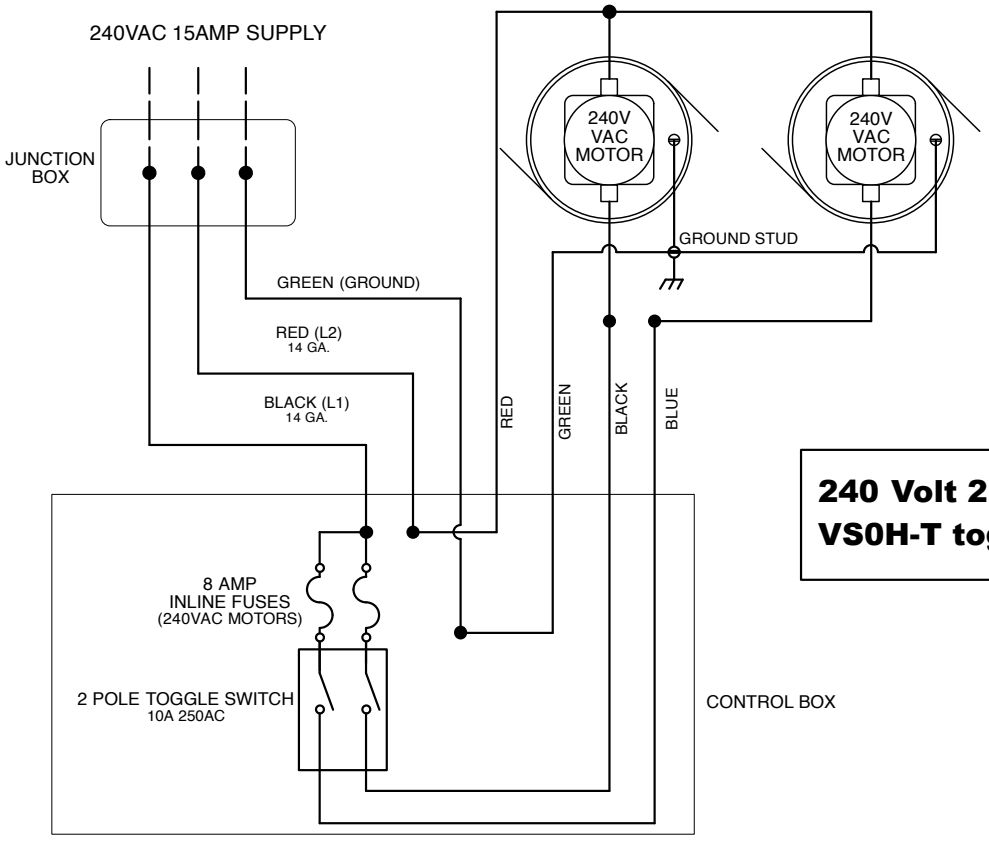

240 Volt 2 Motor
VS0H-T toggle switch model

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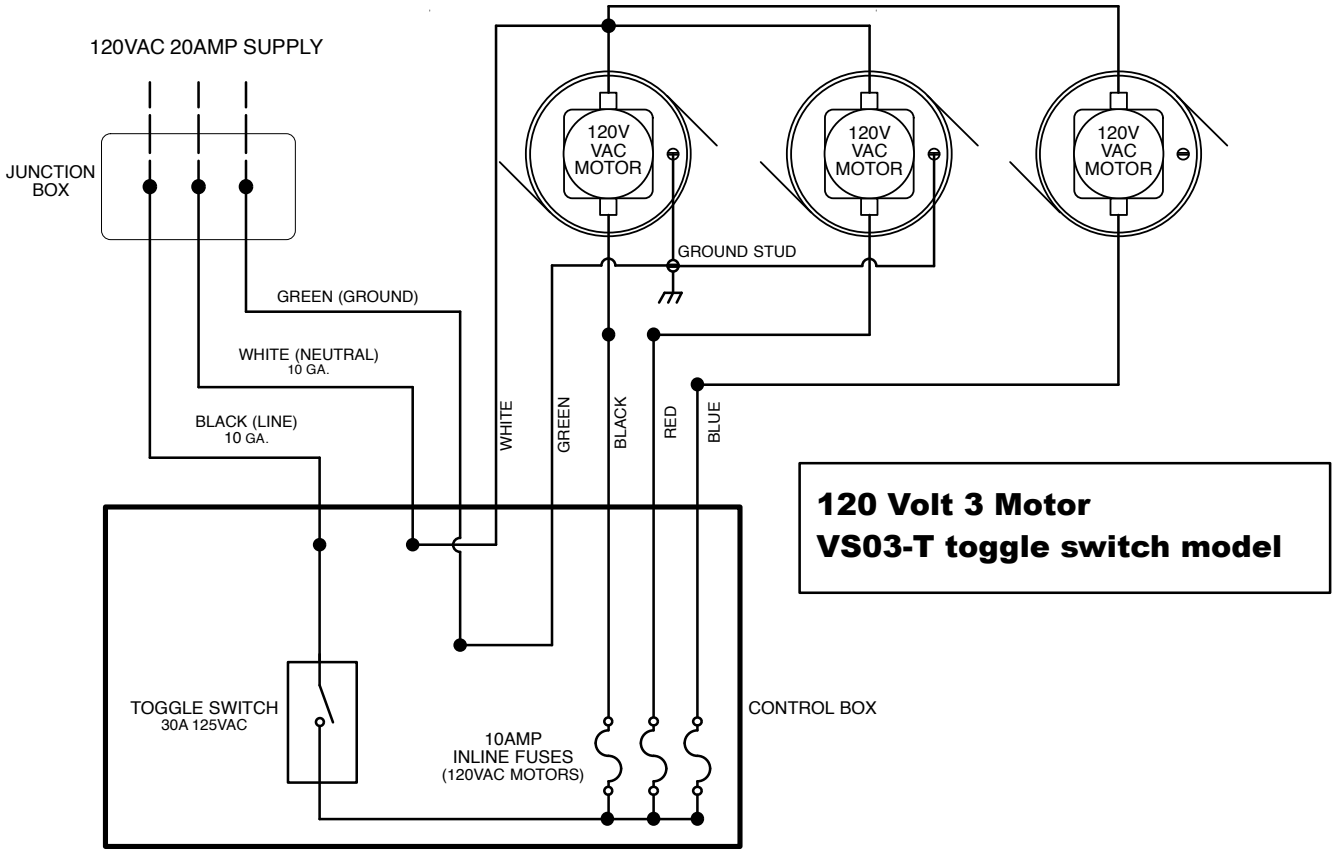

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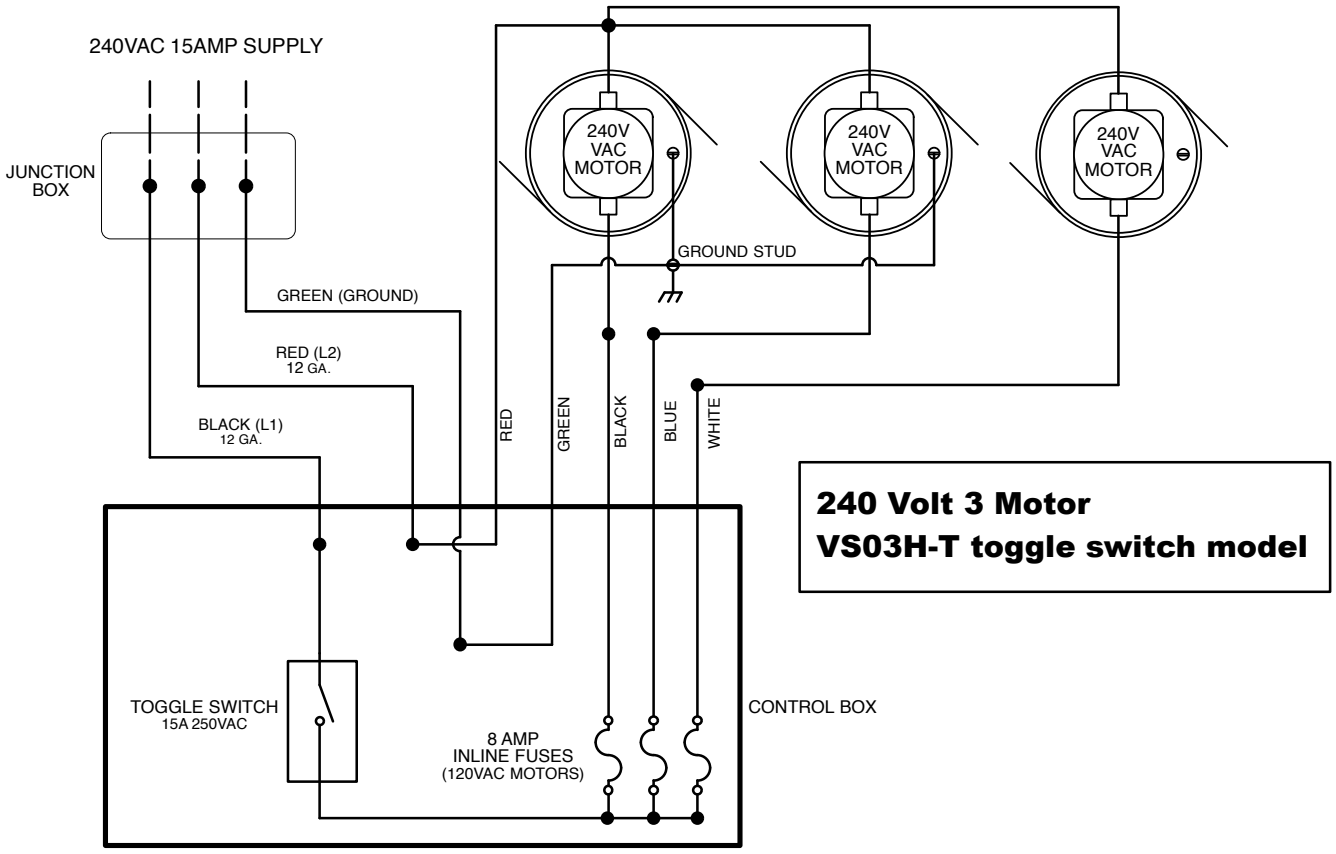

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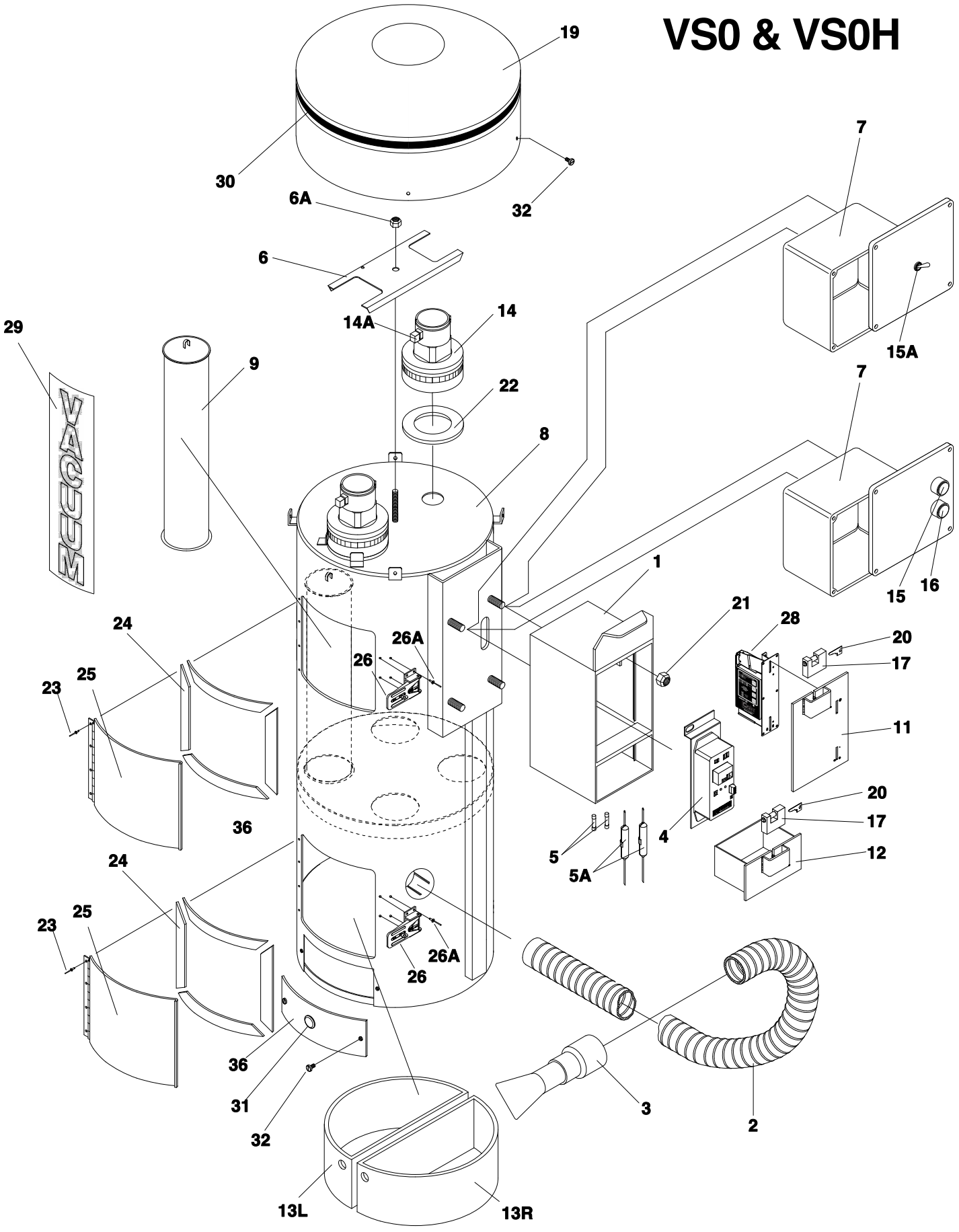
VS0 & VS0H



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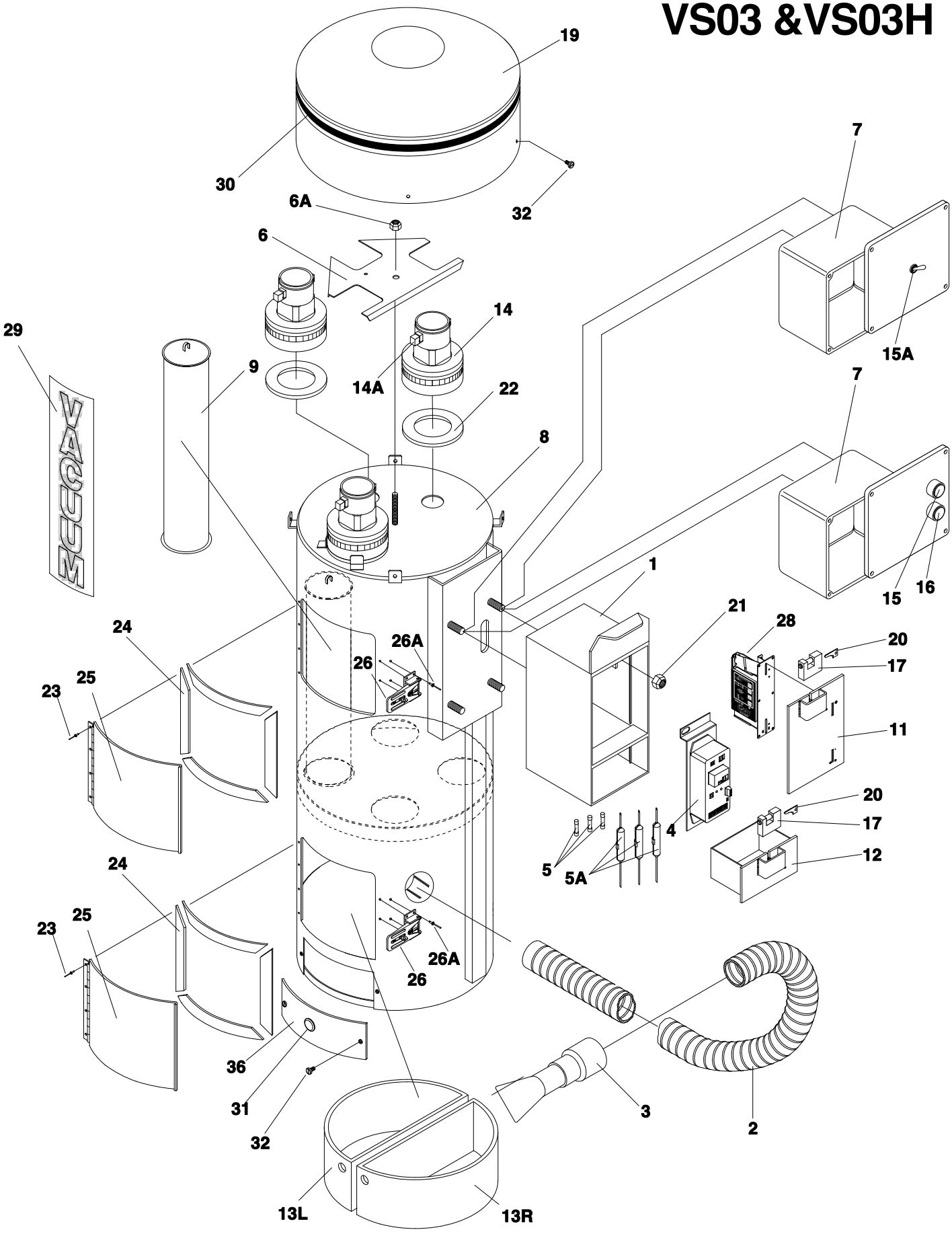
VS0 & VS0H Parts List

Item	Part Number	Description	Qty
1	CBL1V-A0NA	Coin Meter Assembly (includes CBL102, CBL103, & CBL106)	1
2	VACWWGB16	Vacuum hose, 1.5”, 16ft	1
3	VACTAS	Aluminum vac nozzle w/cuff	1
4	MTV840	Electronic timer (120 volt vacuums)	1
	MTV840-240	Electronic timer (240 volt vacuums)	1
5	ELCFUSE-3AB10	fuse, 10A. 3AB (120 volt vacuums)	2
	ELCFUSE-3AB8	fuse, 8A. 3AB (240 volt vacuums)	2
5A	ELCFUSE-ILG1	inline fuse holder	2
6	VS6	motor retainer bracket	1
6A	VB6A	lock nut	1
7	ELCBOX-JB884	Control box for pushbuttons	1
8	VS8	vacuum body	1
9	VS9	filter bag	4
11	CBL102V	faceplate	1
12	CBL103	money drawer	1
13L	VB13L	dust container	1
13R	VB13R	dust container	1
14	VB14	vac motor (120 volt vacuums)	2
	VB14-240	vac motor (240 volt vacuums)	2
14A	VB14A	vac motor brush (120 volt vacuums)	4
	VB14A-240	vac motor brush (240 volt vacuums)	4
15	ELCSW-220A-SGL0	start push button	1
15A	ELCSW15DS	toggle switch	1
16	ELCSW-220A-SRL0	stop push button	1
17	CBL106	block lock with 2 keys	2
19	VB19	stainless steel dome	1
20	CBL107	key for block lock	2
21	VB17	nut 1/2” with lockwasher	4
22	VB7A	gasket, motor to motor mount	2
23	VS25-R	rivet	8
24	VB25G	door gasket	2
25	VB25	door	2
26	VB26	door clasp	2
26A	VB26-R	rivet	8
28	CP900, CMX21	electronic coin acceptor, mechanical coin acceptor	1
29	VB29,VB29F,VB29B	vacuum label: english, french, bilingual	2
30	LBL9002	dome label	1
31	ELCDP08	plug 1/2”	1
32	VSB19S	ss screw	6
36	VB36	bottom access cover plate	1

VS03 &VS03H



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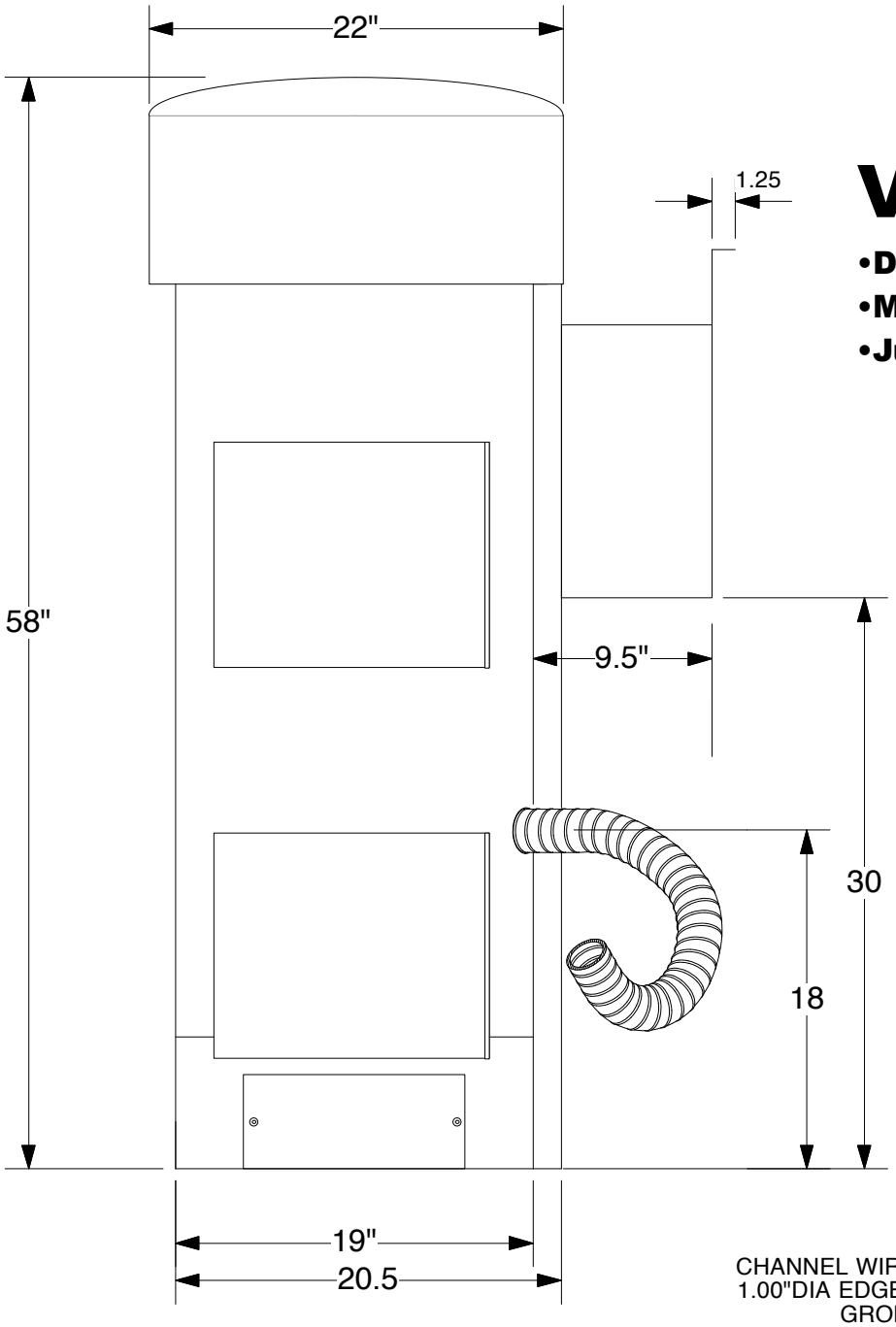
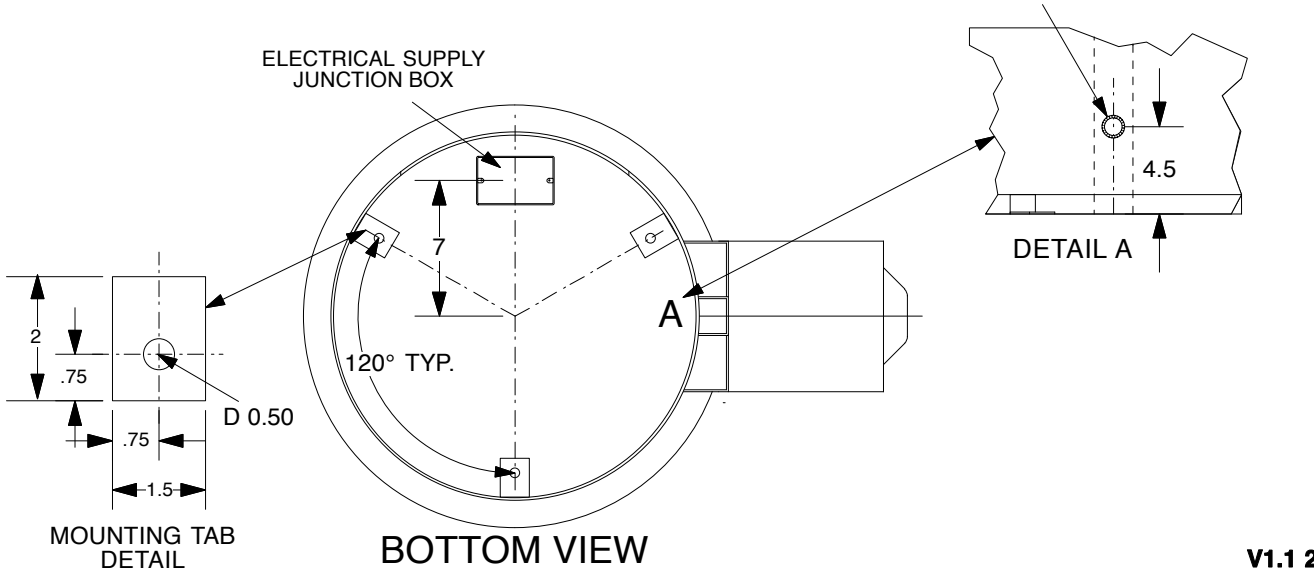
VS03 & VS03H Parts List

Item	Part Number	Description	Qty
1	CBL1V-A0NA	Coin Meter Assembly (includes CBL102, CBL103, & CBL106)	1
2	VACWWGB16	Vacuum hose, 1.5”, 16ft	1
3	VACTAS	Aluminum vac nozzle w/cuff	1
4	MTV840	Electronic timer (120 volt vacuums)	1
	MTV840-240	Electronic timer (240 volt vacuums)	1
5	ELCFUSE-3AB10	fuse, 10A. 3AB (120 volt vacuums)	2
	ELCFUSE-3AB8	fuse, 8A. 3AB (240 volt vacuums)	2
5A	ELCFUSE-ILG1	inline fuse holder	2
6	VS6-3	motor retainer bracket	1
6A	VB6A	lock nut	1
7	ELCBOX-JB884	Control box for pushbuttons	1
8	VS8-3	vacuum body	1
9	VS9	filter bag	4
11	CBL102V	faceplate	1
12	CBL103	money drawer	1
13L	VB13L	dust container	1
13R	VB13R	dust container	1
14	VB14	vac motor (120 volt vacuums)	3
	VB14-240	vac motor (240 volt vacuums)	3
14A	VB14A	vac motor brush (120 volt vacuums)	6
	VB14A-240	vac motor brush (240 volt vacuums)	6
15	ELCSW-220A-SGL0	start push button	1
15A	ELCSW15DS	toggle switch	1
16	ELCSW-220A-SRL0	stop push button	1
17	CBL106	block lock with 2 keys	2
19	VB19	stainless steel dome	1
20	CBL107	key for block lock	2
21	VB17	nut 1/2” with lockwasher	4
22	VB7A	gasket, motor to motor mount	2
23	VS25-R	rivet	8
24	VB25G	door gasket	2
25	VB25	door	2
26	VB26	door clasp	2
26A	VB26-R	rivet	8
28	CP900, CMX21	electronic coin acceptor, mechanical coin acceptor	1
29	VB29,VB29F,VB29B	vacuum label: english, french, bilingual	2
30	LBL9002	dome label	1
31	ELCDP08	plug 1/2”	1
32	VSB19S	ss screw	6
36	VB36	bottom access cover plate	1

VS0

- **Dimensions**
- **Mounting Pattern**
- **Junction Box Location**





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WARRANTY

Magikist vacuums are warranted by the manufacturer to be free from defects in material and workmanship for one year from date of manufacturer's shipment, provided the equipment is installed and operated in accordance with factory recommendations and instructions. This warranty is limited to repairing or replacing products which manufacturer's investigation shows were defective at the time of shipment by the manufacturer. This warranty does not cover normal wear, nor does it cover damage caused by neglect, misuse, accident, faulty installation or tampering in a manner to impair its normal operation. All products subject to this warranty shall be returned **freight prepaid** to Magikist Ltd., Winnipeg, Canada for examination, repair, or replacement.

The express warranty set forth herein is in lieu of all other warranties, express or implied, including without limitation any warranties or merchantability or fitness for a particular purpose and all such warranties are hereby disclaimed and excluded by the manufacturer. Repair or replacement of defective products as provided is the sole and exclusive remedy provided hereunder and the manufacturer shall not be liable for any further loss, damages or expenses, including incidental and consequential damages, directly or indirectly arising from the sale or use of this product.

This warranty is subject to the installation and operating conditions as described in this manual. This warranty does not apply to optional equipment which may have been supplied with your vacuum. Refer to the warranty supplied with the optional equipment for information on that equipment's warranty.

Parts originally manufactured by Magikist Ltd. must be used or this limited warranty will be voided. Magikist Ltd. will be absolved of any liability if parts other than Magikist Ltd. manufactured parts are used.

There are no warranties which extend beyond the description of the face thereof.