



CAUTION: Read the instructions before using the machine.



POWER VAC **WITH** **AIR DETAILING**

Power Vac with Air Detailing Model 250000 Install & Owner's Guide

**CAUTION: Read the
instructions before
using the machine.**



INCREDIBLY POWERFUL

INDUSTRIAL VACUUM SYSTEMS

**www.IVS-Vacuum.com
800.968.8227**

000145 2024



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INDUSTRIAL VACUUM SYSTEMS

Thank you for your purchase of an IVS Vacuum!

Our heavy-duty vacuum systems are engineered and manufactured to tackle the toughest vacuuming jobs.

The following are original Instructions for the IVS Power Vac with Air Detailing Model 250000 vacuum along with detailed safety, warranty and installation information.



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SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

When using electrical machine, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE

This Machine is not intended for household use. It is intended for commercial use.

This machine is not intended for wet pick up use.

WARNING – To reduce the risk of fire, electric shock, or injury:

1. This machine must be connected to a permanent electrical power supply in full compliance with all applicable codes and ordinances by qualified personnel only. Read grounding instructions.
2. Do not use on wet surfaces.
3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. Do not operate or handle machine with wet hands.
6. Do not put any object into any openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
7. Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts.
8. Do not pick up anything flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
9. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
10. Do not pick up hazardous dust or particulate.
11. Do not use without dust bags or filters in place.

GROUNDING INSTRUCTIONS

This machine 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 machine.

GROUND FAULT CIRCUIT INTERRUPTER PROTECTION

To provide additional protection from the risk of electric shock, this product shall only be connected to a circuit that is protected by a ground fault circuit interrupter (GFCI).

DANGER

Installation of this machine must incorporate and provide full disconnection of all poles in the event an overvoltage category III condition. Such incorporation to the fixed wiring must be in accordance with the wiring rules.



LIMITED WARRANTY

Industrial Vacuum Systems (Company) provides a limited one year warranty on components and piece of equipment produced by the Company to be free from defects in material and workmanship. Electrical assemblies see Appendix A, have a limited two year warranty on the controller to be free from defects in material and workmanship. This limited warranty does not cover equipment that has been damaged due to misuse, misapplication, modification, altered, neglected, attempted theft, vandalism, connection to improper voltage supply, modification, or such parts that are commonly recognized to be subject to wear in normal usage. Normal use products are, but not limited to, those listed on Appendix B; which are warranted for 90 days. Every component and piece of equipment is packaged to assist in safe handling of the product.

Claims must be submitted in writing within the appropriate coverage period as covered by this warranty, from date of shipment, to the Company's warranty/repair department. If the return is approved an RMA and labeling instructions will be issued and the product can be returned. Returned product without the appropriate RMA and label will be issued to scrap and all warranties/replacements will be considered null and void. If the product receiving the RMA is not returned within 20 days from date of issuing the RMA then any credit toward the product will be reduced by 25%. If the product is not returned within 30 days of issuing the RMA then any credit will be reduced by 50%. A testing fee of \$20.00 will be applied, if the product passes all tests related to the written claim, then the fee will be applied and paid prior to return of the product. If the product fails the test then the fee will not be applied.

The Company may charge a 20% restocking fee for returned product and/or an order, which is canceled and/or material has already been ordered and/or received to fill such order. The Company's warranty/repair department will inspect all components, submitted under warranty. Warranty replacement will be based solely on the analysis and confirmation that the product defect was caused by material and/ or workmanship.

The company reserves the right to change the design of the product without assuming any obligation to modify any product previously manufactured or to replace warranted product other than with redesigned product. In some cases it is easier for the customer to send a Company purchased product direct to the manufacturer for replacement. In those cases the customer will be notified that their product falls under that process and should work with that manufacturer directly. Appendix C shows the purchased parts that falls under this case.

This warranty covers the product replacement only; charges for damages, freight and/or labor will not be accepted. There are no warranties expressed or implied which extend beyond this Limited Warranty. The loss of use of the product, loss of time, inconvenience, commercial loss, incidental or consequential damages is not covered. The Company shall not be liable for incidental, special, or consequential damages including without limitation damages resulting from personal, bodily injury or death or damages to or loss of use of property.

APPENDIX A 2-Year Warranty Controllers Sensortron, Multitron, Touchtron, Timers, Liberator

APPENDIX B 90-Day Warranty Components Pressure Hoses, Swivels, Nozzles, Safety Shut-off Guns, Seals, O-Rings, Shop Vac

APPENDIX C Purchased Products that are Handled Direct with the Manufacturer Shop Vac, IDX Big Timer, Bill Acceptors, Compressors, Pump Motors



Effective March 2014

Applies to Vacuums and Combination Vacuums and Service Part Kits containing the GinSan Vacuum Motor part number 105111 or 105112.

GinSan will warrant Vacuum motors against defect in original manufacture for a period of one year from the date the vacuum or service part motor ships from GinSan. Additionally, Vacuum Motor Brushes installed in these 2 motors will be warranted against defect in original manufacture for a period of 90 days from the date of shipment from GinSan.

This warranty requires that the vacuum and motor must receive proper operational maintenance that includes proper filter, motor gasket, filter screen, and motor brush maintenance.

GinSan's liability is limited to replacement parts only. Labor for removal or installation is not covered.

Motor or Brush failure resulting from abuse, misuse, filter failure, or improper or inadequate maintenance will not be covered. Motor or Brush failure that is due to brushes worn beyond the physical wear life of the brush is not covered. Except in the case of original factory installation, Motor or Brush failure due to improper or inadequate installation will not be covered.

Warranty claims must be evaluated by GinSan. Replacement Motor(s) and/or Motor Brush Kit(s) must first be ordered and invoiced as a service part. An RMA number will be issued at that time. The customer is required to return the failed Motor and/or Motor Brushes to GinSan with the RMA number prominently on the outside of the package. Failed motors must be shipped within 14 calendar days of the shipping date of the replacement Motor and/or Brushes. Customers are encouraged to record a tracking number from the shipper. Shipper data will be the only data used to determine adherence to this policy.

When received, failed Motors and/or Brushes will be evaluated within 5 business days. Motors and/or Brushes that are evaluated as being under warranty will have the invoice for the replacement parts, including shipping, credited within 5 business days of the completion of the evaluation. If a Motor or Brush kit is evaluated to be not covered by this warranty, the customer will be notified within 2 business days. At that time, the customer will have the option to have the failed Motor and/or Brushes returned to them at their expense or they can instruct GinSan to dispose of the components locally.

Motors and/or Motor Brushes that are covered by warranty will be retained by GinSan and processed according to its internal policies.

This warranty shall apply only to vacuum motors GinSan Part Number 105111 and 105112 and the Motor Brushes installed in them.



Site Preparation

Select and prepare a solid, level site for a concrete or similar base. Consider: Vehicle traffic, ease of access, weather protection and lighting to enhance vacuum performance and income. Consult local code for foundation requirements. Note: 20" base height above surrounding surface provides minimum protection against typical vehicle bumper damage. 30" base height is maximum considering the ON/OFF switch positions

CAUTION!

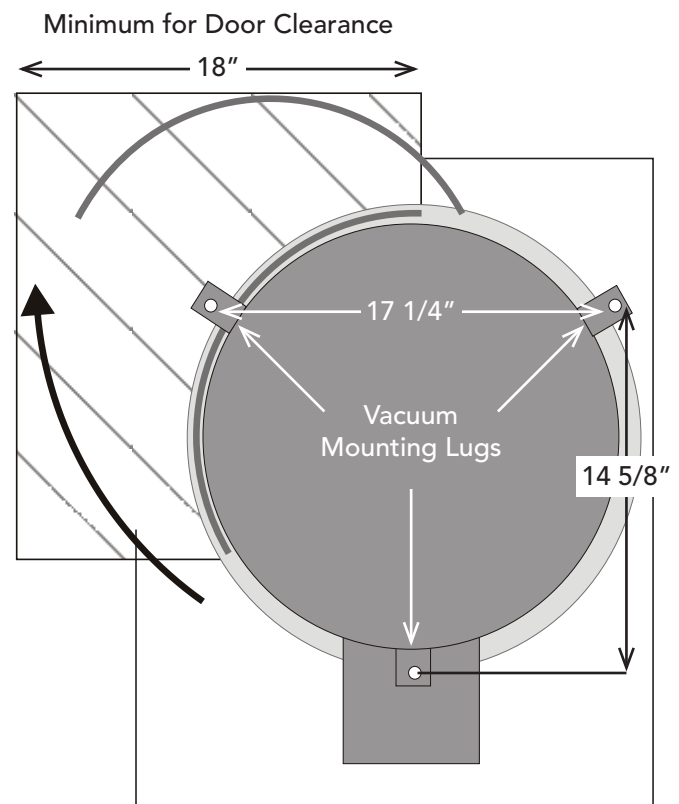
ELECTRICAL SHOCK HAZARD

Disconnect power prior to beginning any service or installation work. Contact a trained electrician if you are unsure of these procedures.

Select and prepare a solid, level site for a concrete or similar base. Consider: Vehicle traffic, ease of access, weather protection and lighting to enhance vacuum performance and income. Consult local code for foundation requirements. Note: 20" base height above surrounding surface provides minimum protection against typical vehicle bumper damage. 30" base height is maximum considering the coin slot switch position.

First, determine the best orientation for each vacuum. Consider the traffic flow through the vacuum and detailing area along with the best sequencing of extra services. Contact your distributor for assistance.

Next, make sure that vacuums will be easily accessible for customer use and servicing. Customers should have easy access to the coin slot and be able to reach the hose and replace the hose after use. NOTE: The hatched area in the drawing to the right shows the clearance area required for service door opening.



IMPORTANT SAFETY INSTRUCTIONS **READ ALL INSTRUCTIONS** **BEFORE USING THIS APPLIANCE**

Connect to electrical service. This unit is rated at 14 Amps, 120 VAC, (operating). It should be connected to 20 Amp single circuit service. Check local codes and requirements and refer to "IMPORTANT SAFETY INSTRUCTIONS" sheet in this manual.

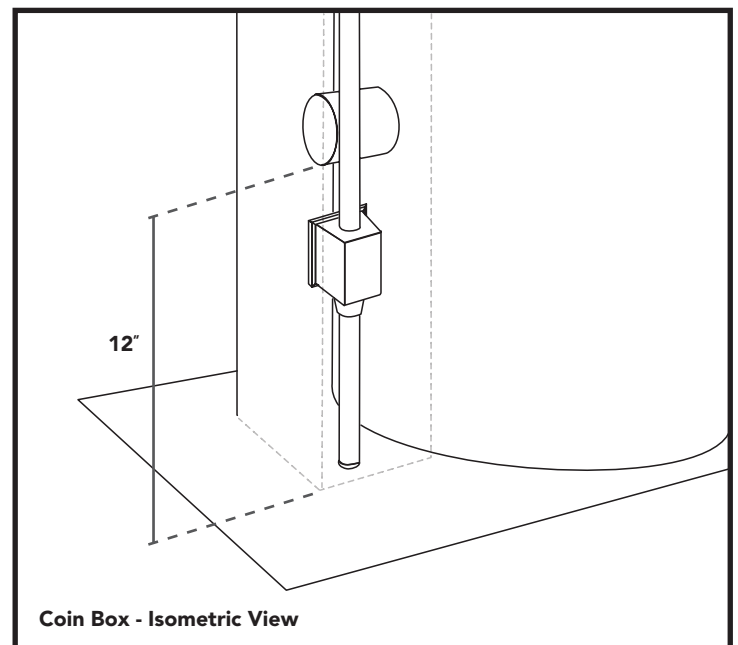
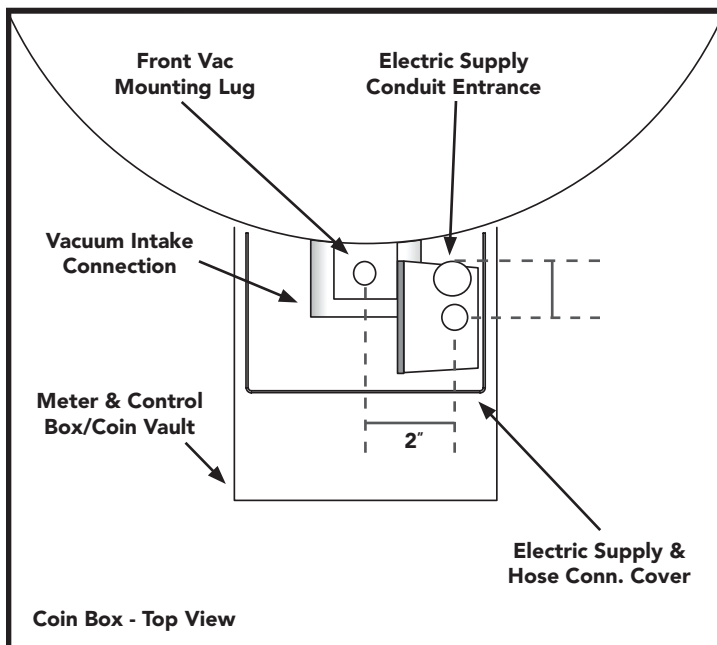


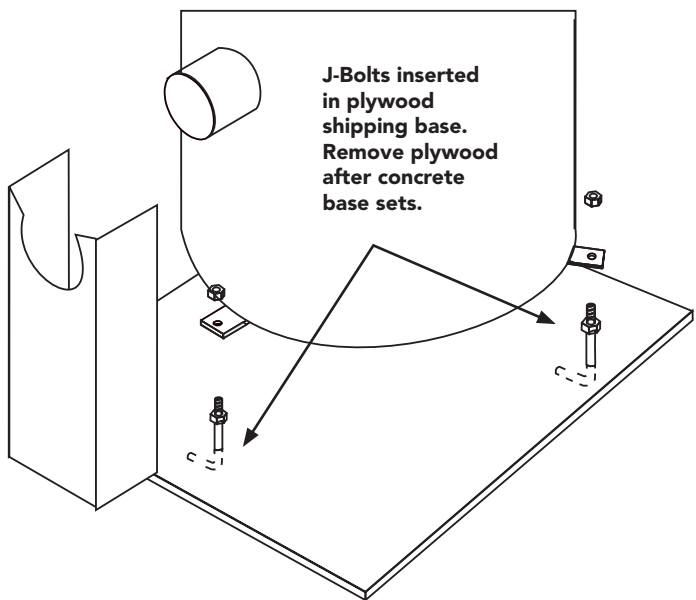
To maintain the products electrical listing it is necessary to connect the power supply of this vacuum directly to the timer terminal strip. (Remove the test cable.) A suitable connection must be made between the supply junction box (which can be located inside the intake shroud cover) and the terminal strip on the timer. To locate the electrical supply conduit measure approximately 2 inches to left of

CAUTION ELECTRICAL SHOCK HAZARD

Disconnect power prior to beginning any service or installation work. Contact a certified or licensed electrician if you are unsure of these procedures.

the center line of the front mounting lug. The measure approximately 2 inches in front of that location to provide adequate space for a 2 inch by 4 inch junction box. The box should be placed so that the top of the box is 12 inches (max.) from the base. **Always check local codes.** See illustration below for dimensions.

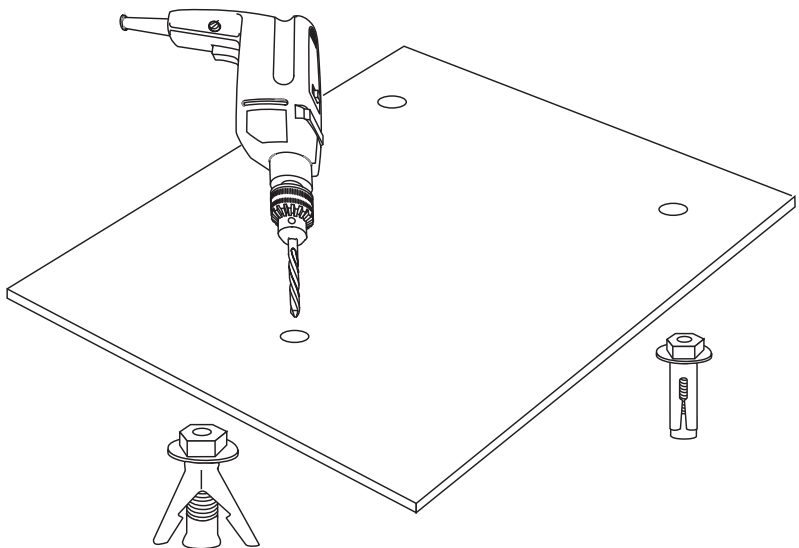
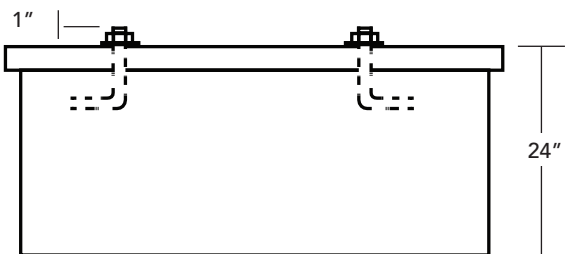




Using "J" Bolts

Carefully locate 3 stainless steel "J" bolts while forming concrete or masonry base. The plywood shipping base can be used as a locating fixture for the "J" bolts while the concrete is formed.

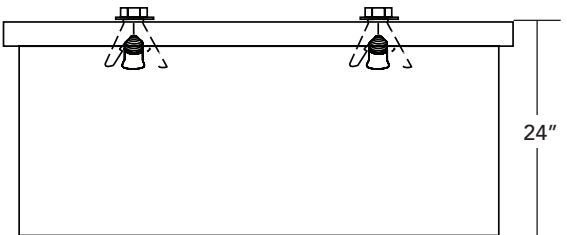
See illustration to the left.



Masonry Anchors

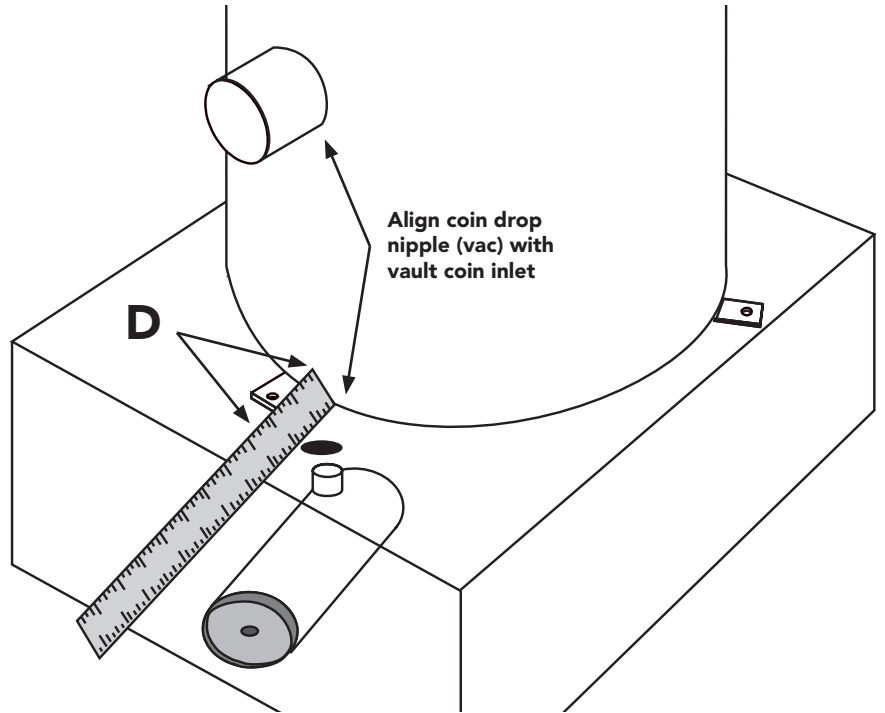
Anchors are used for existing construction only. Drill and install suitable masonry anchors to accommodate a 3/8 inch lag screw. Check anchor supplier information for proper drill size. HINT: Use the plywood base as a template for drilling the anchoring pilot holes.

See illustration to the left.



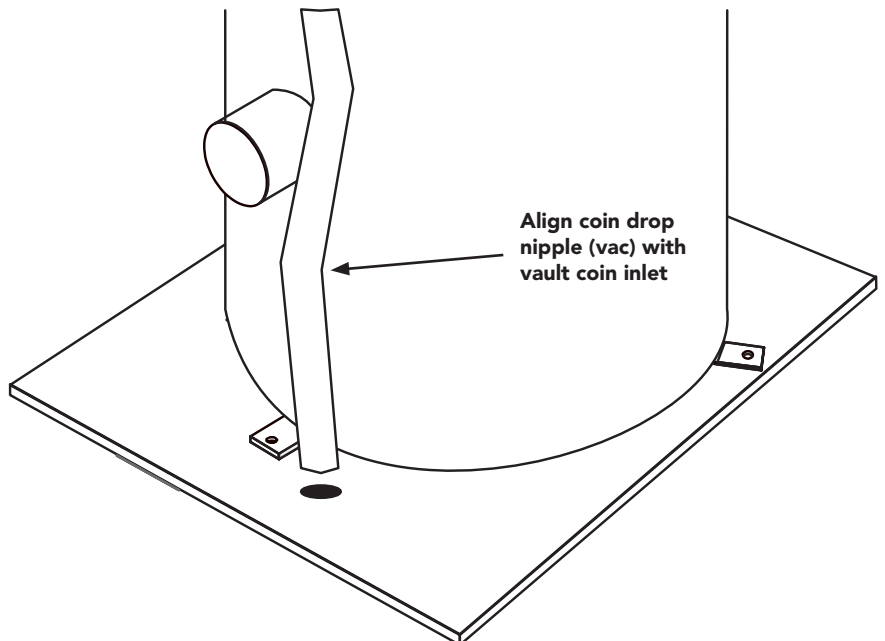
Locate Vault Drop

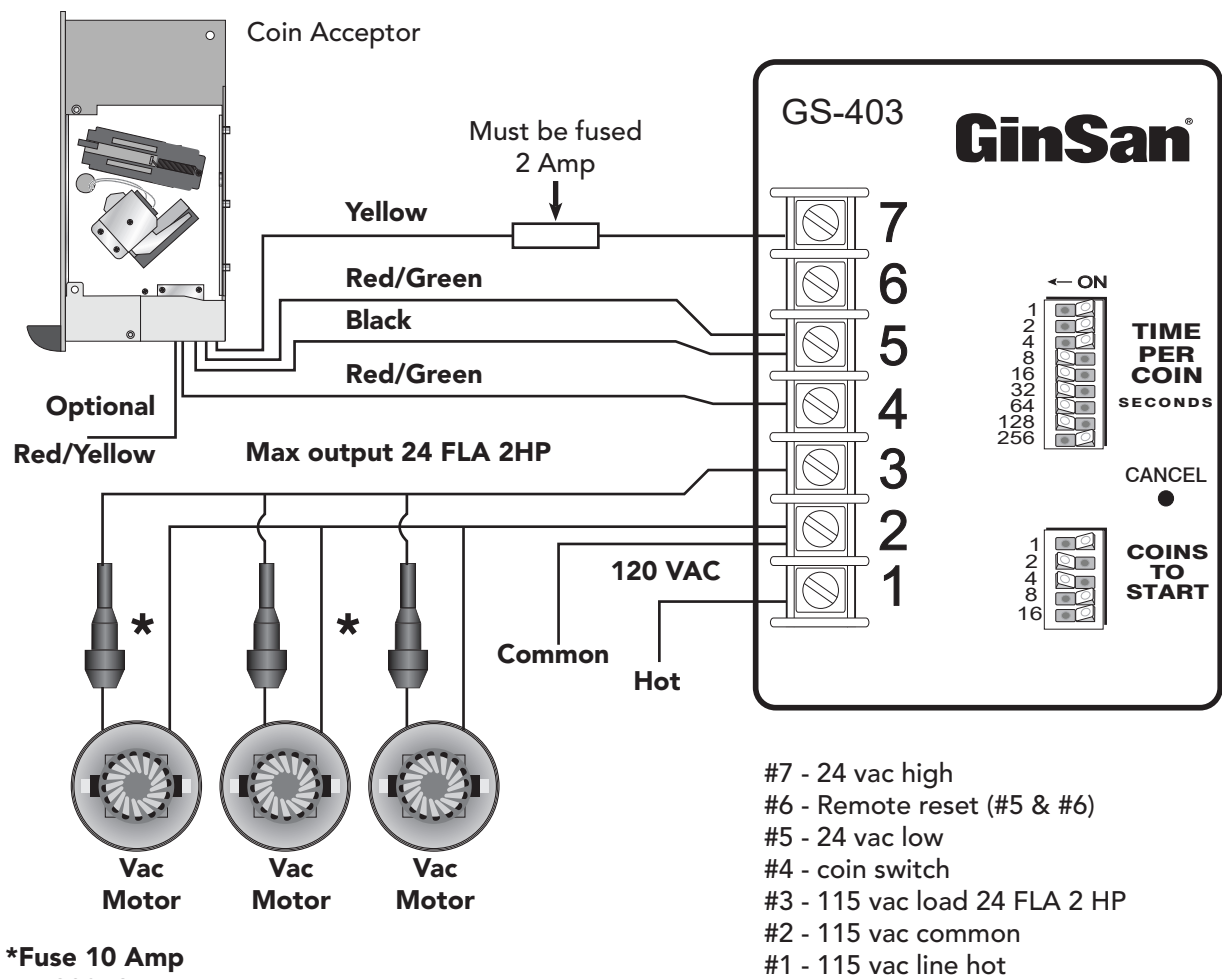
Refer to vault manufacturer's drawings or specifications to accurately determine the position of the vacuum required to align the coin inlet on the vault with the coin drop nipple on the vacuum. Dimension "D" in drawing represents required "set back" from the front edge of the base to the center of coin drop opening in the vault. The front mounting lug of the vacuum should be located 1" to the right and 23/16" in front of this point. See illustration (and inset) to the right.



Coin Connection Method

Customer supplied conduit: Connect coin conduit from vault to 1½" nipple on the bottom of the meter/control box (flexible conduit can be used to avoid creating any kinks or obstructions that can cause coin jams in the tube). Channel will conceal this tubing for security. See illustration to the left.





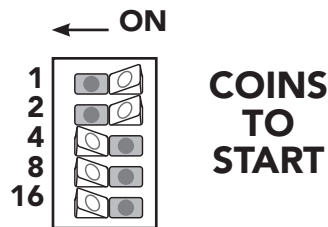
*Fuse 10 Amp
PN 20318

Fuse Holder
PN 20317

Setting the COIN to START Switch

The Coins to Start is determined by adding the total number of switched in the "On" position.

Example: 1+2 = 3 coins to start



Starting the Timer

Jump a wire between terminals #4 and #5. A count will register in the timer for every jump, which is the same as putting coins in the coin acceptor

If Timer Fails to Start

Disconnect the switch wire on terminal #5 and repeat starting procedure.

If timer starts at this point, the trouble may be:

1. A bad coin switch or acceptor.
2. Broken wire or bad connection.
3. Wires shorted between terminals #4 and #5 or shorted between #5 and #6.

Timer Starts on One Less Coin than Setting

Coin switch wired wrong
(should be wired to normally open terminal & common terminal).

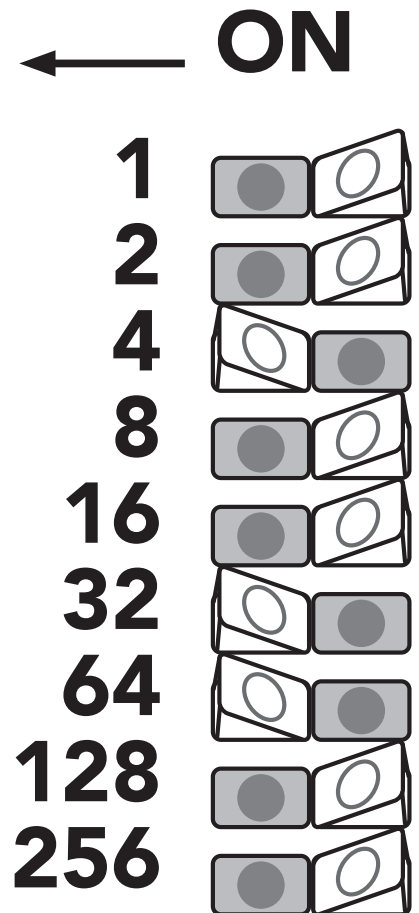
Setting the Time Per Coin switch

Determine amount of coins to start the timer.
Example: 2 coins to start

Convert time to desired seconds.
Example: 5 minutes = 300 seconds

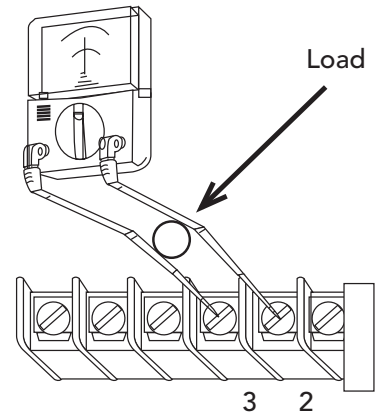
Divide the total time (in seconds) by the coins to start timer.

The time per coin is determined by adding the total seconds of the switches in the "On" position. If, for instance, the desired time is 100 seconds, switch on the number of switches needed to add up to 100 seconds.
Example: 100 seconds = 64+32+4



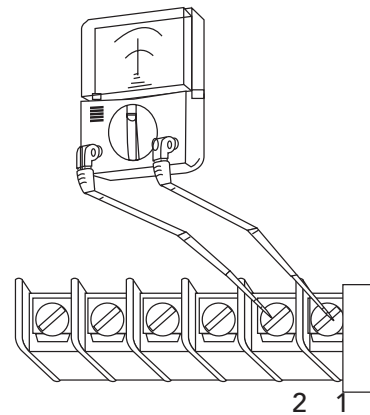
Checking Power Out to Motors

A load of no less than .5 amps has to be hooked across terminals #2 and #3, to indicate time turning on. Without a load on the timer, it may not turn on or shut off. A volt meter across terminals #2 and #3 will indicate timer turning on and read output voltage. Check amp draw of motors using a clamp-on type amp meter.



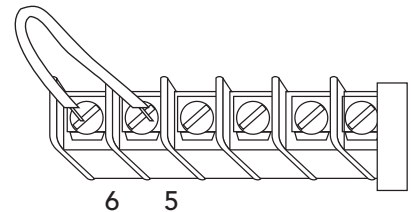
Checking Power to Timer

Using a volt meter across terminals 1 and 2 will indicate incoming voltage.



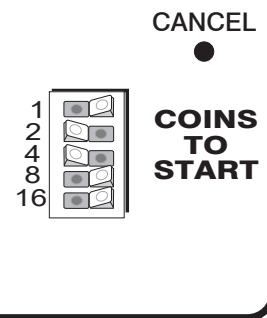
Stopping the Timer

Use a jumper wire and touch across terminals #5 and #6.
Or Press the Cancel button.



If Timer will Not Stop

All time switches are in the off position.



Initiating Programming Mode

1. Remove the bill magazine
2. Use a pencil or a screwdriver to press this button to enter configuration mode (figure A), then reattach the bill magazine to initiate Coupon mode:
3. When coupon mode is activated, the bezel lights will rapidly flash Insert a completed configuration coupon



Figure A

Using the Coupon to Program

Fill out the coupon using a #2 (HB) pencil. Fill in one block for each line. Do not mark the back of the coupon.

Section 1: Bill Ways

- 1 - Face up in one direction (green seal first)
- 2 - Face up in either direction
- 4 - Face up or down in either direction

Section 2 - Bill Enables

Fill in on or off to enable or disable a bill.

\$50 and \$100 - T8 Models Only

Fill in on or off to enable or disable a bill

Section 3 - Pulse Width

Sets the width of the pulse, check with your machine manufacturer for details. "Gaming Short" recommended.

Sections 4 - Pulses per Dollar

Credit pulses per dollar accepted, check with your machine manufacturer for details. 4 pulses recommended.

Section 5 - Interface Mode

Harness Enable - Requires an input from the controller to enable and accept bills. "Always Enable" is recommended.

Always Enable - allows for acceptance at all times, a host or controller cannot disable the unit.

Section 6 - Acceptance Mode

Mode 0 is default. Increasing Acceptance Mode increases security, but may also impact performance. Please contact CPI Technical Support for details.

66mm
T6/T8 Coupon

156mm

Sections 1-5 must be filled in, section 6 is optional

Bill ways accepted

1

☐ ☐ ☐

Bill enables on off

2

\$1

☐ ☐

\$2

☐ ☐

\$5

☐ ☐

\$10

☐ ☐

\$20

☐ ☐

\$50

☐ ☐

\$100

☐ ☐

Pulse width

3

☐
Gaming
Short

☐
Gaming
Long

☐
Vending
Short

☐
Vending
Long

Pulses per dollar

4

☐
1

☐
2

☐
3

☐
4

Interface mode

5

☐
Harness
Enable

☐
Always
Enable

Acceptance mode

6

☐
Mode 0

☐
Mode 1

☐
Mode 2

☐
Mode 3



Enable/Disable Coins

Any coin which is programmed into the Microcoin QL can be turned on or off by simply selecting the enable or disable feature and passing the coin through the validator. The Microcoin QL automatically senses the coin and enables or disables it accordingly.

Enable
Press program button x 1, LED flashes green.
Roll coin to enable.
LED steady green.

Disable
Press program button x 2, LED flashes red.
Roll coin to enable.
LED steady green.

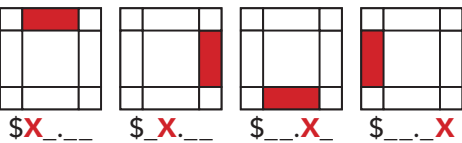
Program Token

Step 1 - Enter Mode
Press program button x 3 (figure A).
Display will show "1", LED will flash amber.

Step 2 - Index to Cat
Index to your required coin category (default 1)

Step 3 - Program Token
Run a recommended minimum of 10 coins. When done, the display will show "0", LED will show steady amber. Press the program button to go to the next step.

Step 3 - Program Token
Display will cycle through token value in dollars and cents - \$xx.xx Cycle to required value, press button, hold to register and release.



Press and hold final button press to exit.

Note 1: You are not restricted to programming with 10 coin passes. You may run as many coins as you wish, with the benefit of maximizing the coin accept rate with the more coins you use.

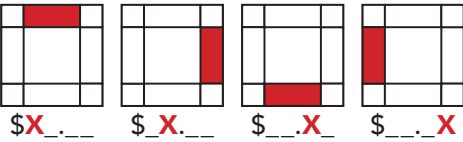
Note 2: When setting the value, hold briefly to register and release. If too short, value will continue to cycle, if too long, sequence will abort. You can reset token value by pressing the program button 4 times to enter Set Value mode

Change Value

Step 1 - Enter Mode
Press program button x 4. Display will show "1", LED will flash amber

Step 2 - Index to Cat
Index to your required coin category (default 1). Press the program button to go to the next step.

Step 3 - Index to Cat
Display will cycle through token value in dollars and cents - \$xx.xx Cycle to required value, press button, hold to register and release.



Note 3: Quick Learn is designed to supplement the facilities available via QLTalk programming software. There may be solutions you wish to employ which require the full features of the software

1. ESCAPE
If you hold the programming button for more than 2 seconds, Microcoin QL will exit from its program mode and revert to normal operation.

2. DIAGNOSTICS
The following diagnostics are available by observing the LED. Validator Operational LED is green Validator Fault LED is red Coin Accepted LED flashes green once per coin Validator Disabled LED is amber No Power LED is Off

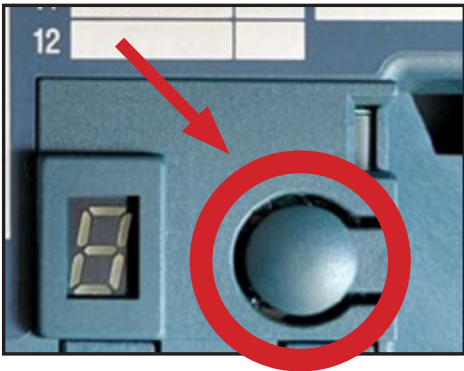


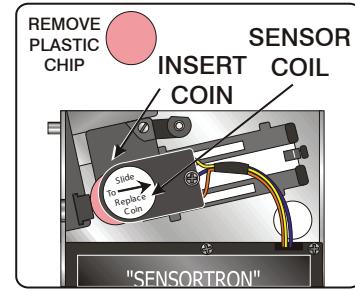
Figure A

TROUBLE SHOOTING GUIDE	
Cause	Action
PROBLEM - All Coins Rejecting	
No power, no indicator light	Check incoming voltage
Low voltage	Monitor voltage
Water in coin path	Allow to dry
Programming mode interrupted	Return to programming mode and follow guide to reprogram most recent coin (If is mode started and not completed all coins reject)
PROBLEM - Timer Not Counting	
24V/Common reversed	Refer to wiring section
PROBLEM - One Coin Rejecting	
Coin disabled	Enable coin
Not programmed	Program coin
Slightly different coin	Re-program coin using 10 different samples
"Look alike" coin	Coin is actually different and can be accepted by programming an additional category
PROBLEM - Coin Jam	
Full coin box	Empty box and QL
QL sitting crooked	Re-insert into bracket
Coin path obstructed	Remove foreign object



To Install Sample Coin Or Token

1. Slide sensor coil to the right and replace plastic chip with coin or token
2. Release sensor coil, making sure sample coin or token is held firmly in place
3. Do not use a 1965 or 1974 quarter as a sample



Selectivity Adjustments

Sensortrons are Preset for Use With U.S. Quarters



The selectivity control is designed to enable field adjustments for closer coin scrutiny, thereby providing greater rejection of slugs.

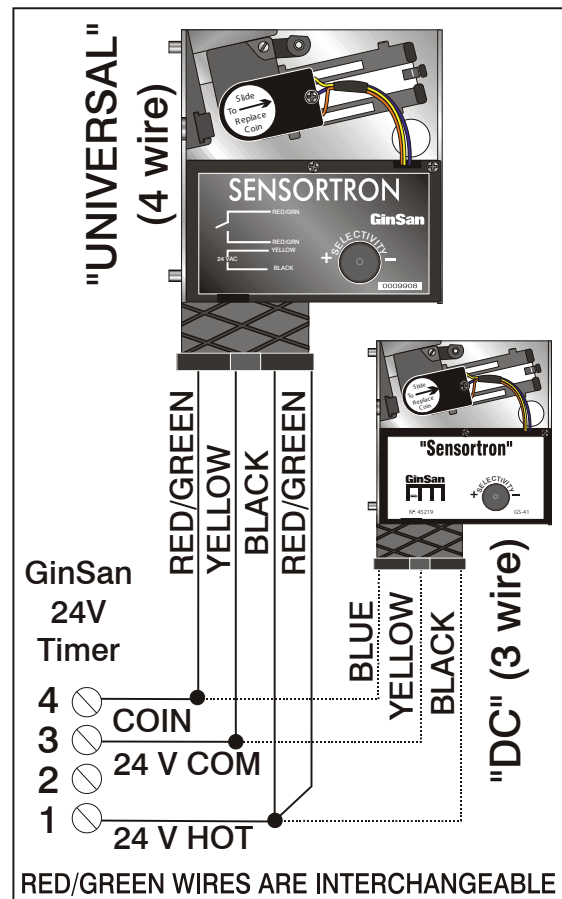
1. Remove black rubber plug



2. Using small screwdriver, locate adjusting slot on potentiometer (pot.). (Slot is difficult to see in the jelly-like substance.)
3. Turn pot. clockwise as far as it will go
4. Turn pot. counterclockwise (a little at a time until it rejects all unwanted coins)
5. Replace rubber plug



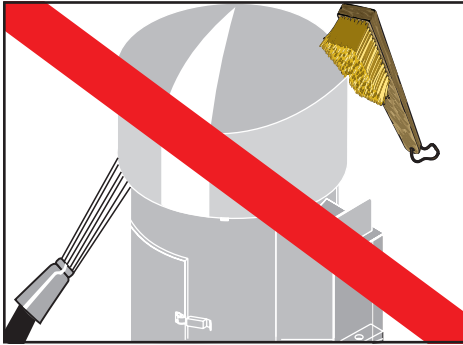
Wiring



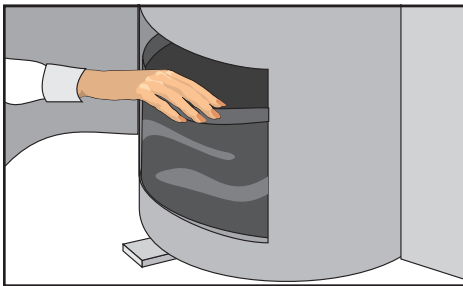
NOTE: YOU MUST HAVE AT LEAST 24 VOLTS AC ACROSS BLACK AND YELLOW WIRES.



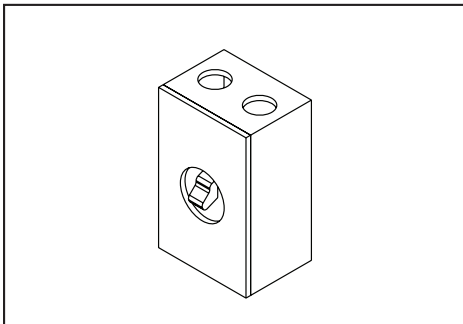
Maintenance requirements depend on usage. It is best to time routine maintenance prior to peak usage periods and schedule service intervals according to business levels.



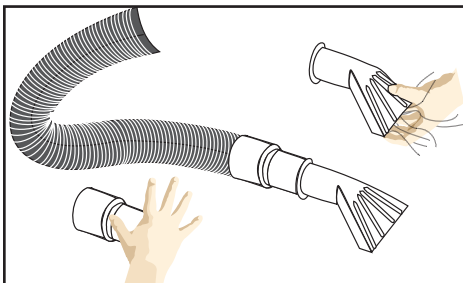
Inspect vacuum exterior. Clean equipment invites usage. Rinse with plain (preferably softened) water as necessary. (Be careful not to spray water upward under the dome-to-tank vent areas). **DO NOT USE STEEL WOOL OR OTHER FERROUS BRUSHES TO CLEAN STAINLESS STEEL SURFACES.**



Remove dirt and debris from vacuum. HINT: Consider ordering a debris catcher (p/n 100700) from your distributor to simplify this process. WEEKLY - Shake filter. Clean or replace every 120 days depending on usage.

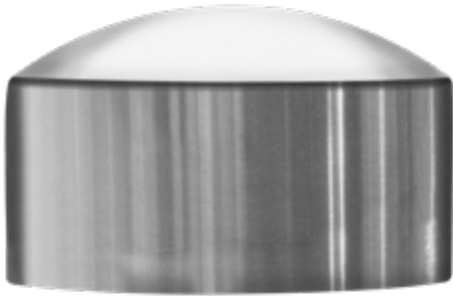


Check starter (or control) by activating the vacuum with the switch or starter.



Check hose for signs of wear, replace if excessive. Test vacuum suction and airflow. Suction test: place hand tightly over cuff - feel for "pull". Airflow test: Hold cupped hand near hose inlet - feel for "breeze".





Brushed Stainless Steel

Part Number: 1025000



Mirror Finish

Part Number: 1025010



Red

Part Number: 1025020



Yellow

Part Number: 1025030



White

Part Number: 1025040



White

Part Number: 1025050



White

Part Number: 1025070



Motor Gasket (Set of 2)

Part Number: 1033010



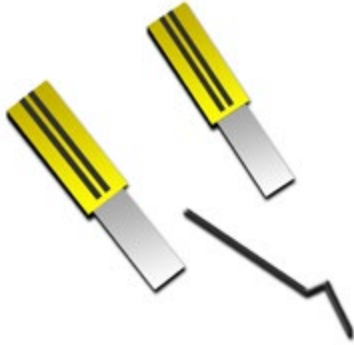
**Motor Brush:
Electro (120V)**

Part Number: 100218-00



Related Parts

POWER VAC
WITH
AIR DETAILING



**Motor Brush:
Electro (220V)**
Part Number: 100219-00



Motor Bracket (Set of 2)
Part Number: 1010340



Filter Bag, Set of 4
Part Number: 10290000



Poly Debris Catcher
Part Number: 100707



**1.5" Duckfoot with
straight cuff**
Part Number: 1045530



**2" Duckfoot with
straight cuff**
Part Number: 1045520



**2" Duckfoot with
swivel cuff**
Part Number: 1045540



Hose: Gray: 2" x 15'
Part Number: 1040010



Hose: Green: 2" x 15'
Part Number: 1040140



POWER VAC WITH AIR DETAILING

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Hose: Red: 2" x 15'
Part Number: 1040100



Hose: Black: 2" x 15'
Part Number: 1040390



Hose: Yellow: 2" x 15'
Part Number: 1040120



Hose: Blue: 2" x 15'
Part Number: 1040110



Hose: Gray: 1 1/2" x 15'
Part Number: 1040000
Requires 10210500



Tapered Hose: Blue
2" to 1 1/2" x 15'
Part Number: 1040340



Tapered Hose: Grey
2" to 1 1/2" x 15'
Part Number: 1040190



Tapered Hose: Red
2" to 1 1/2" x 15'
Part Number: 100046-00



Hose Reducer
2" to 1 1/2"
Part Number: 10210500



Related Parts

POWER VAC
WITH
AIR DETAILING



Latch & Strike Kit

Part Number: 1047060



Lock Shroud

Part Number: 1045290



Cleanout Door (complete)

Part Number: 1058120



Hose Channel

Part Number: 1410030



Meter Box:
Pin lock drawer

Part Number: 1496120



GinSan GS-41
Sensortron 2"

Part Number: 7704200



Bill Acceptor

Part Number: 10059600



Microcoin QL

Part Number: 1002580



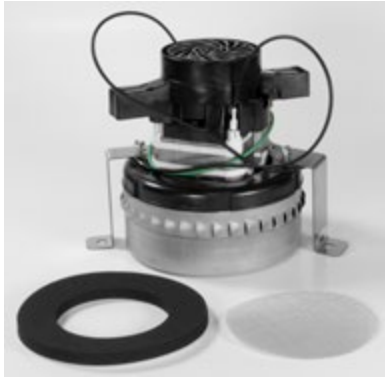
Coin Return Stop

Part Number: 1002060



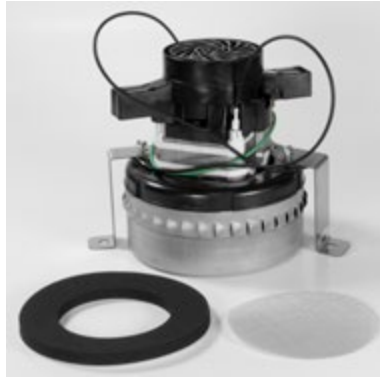
POWER VAC WITH AIR DETAILING

Page 19



Motor Kit: 120V

Part Number: 100041-00



Motor Kit: 240V

Part Number: 10511200



Transformer

Part Number: 1078110



Contactor

Part Number: 1901700



Switch Kit

Part Number: 1145270



Air Hose

Part Number: 100873



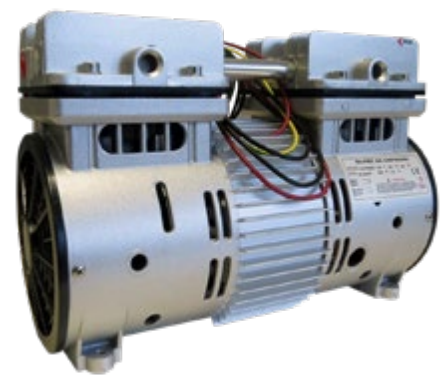
Air Gun

Part Number: 100874



Pressure Valve

Part Number: 108700



Air Compressor

Part Number: 101707

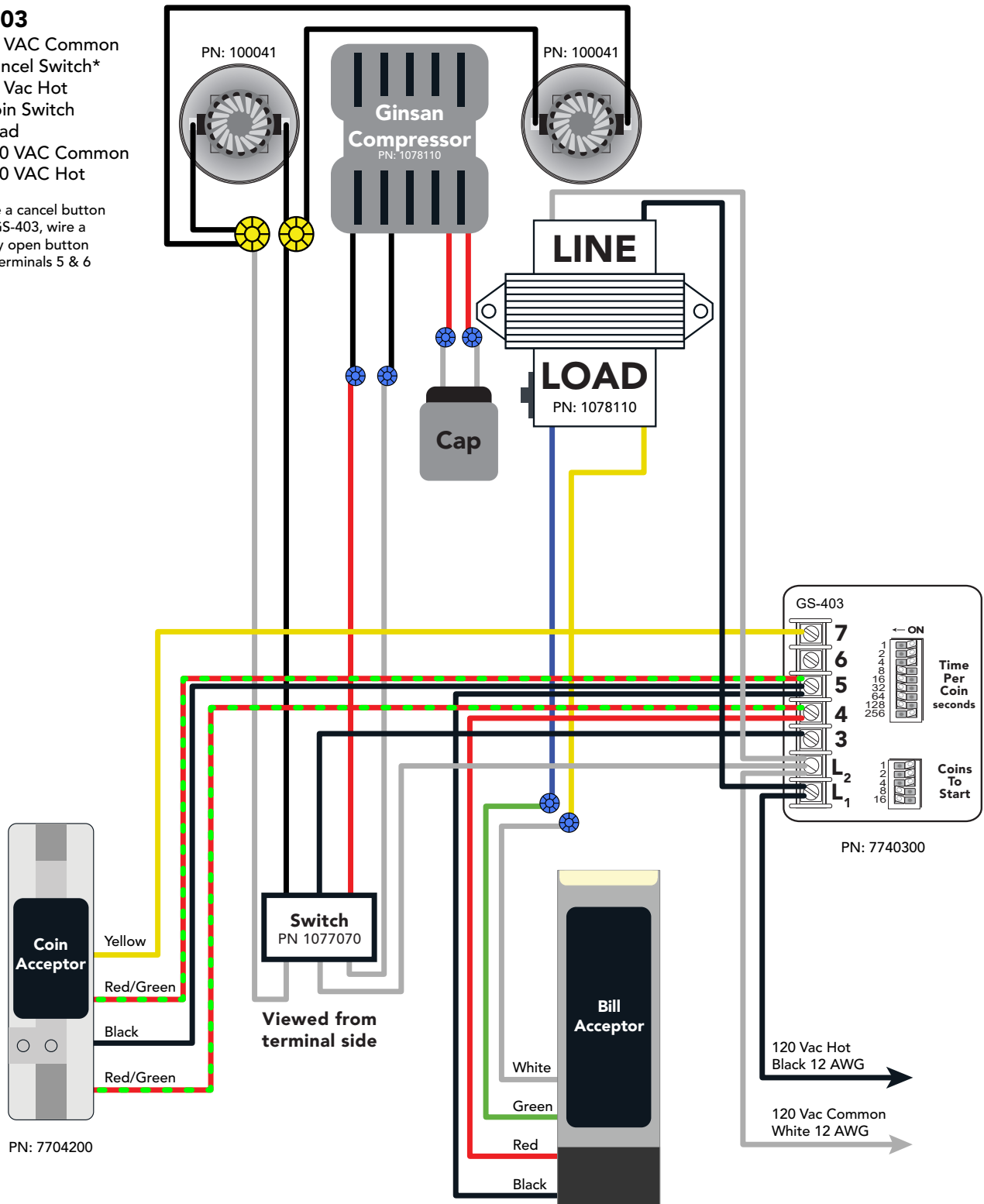


Power Vac 120V with GS-403, Ginsan Compressor, Bill and Coin Acceptor, Single Price

GS-403

- 7 24 VAC Common
- 6 Cancel Switch*
- 5 24 Vac Hot
- 4 Coin Switch
- 3 Load
- 2 120 VAC Common
- 1 120 VAC Hot

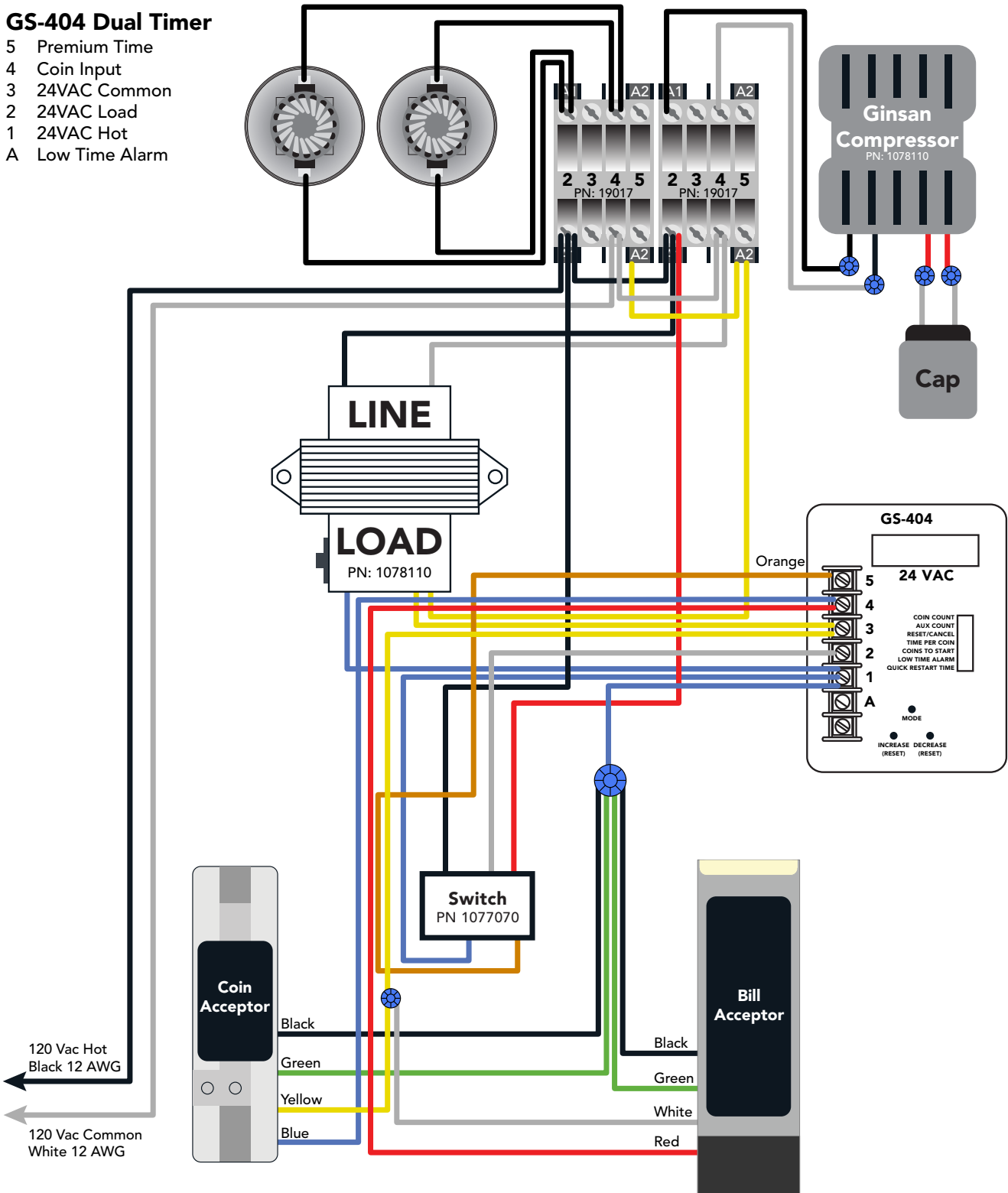
*To wire a cancel button to the GS-403, wire a normally open button across terminals 5 & 6



Power Vac 120V with GS-403, Ginsan Compressor, Bill and Coin Acceptor, Single Price

GS-404 Dual Timer

- 5 Premium Time
- 4 Coin Input
- 3 24VAC Common
- 2 24VAC Load
- 1 24VAC Hot
- A Low Time Alarm



Symptom:	Problem:	Correction:
Won't start:	No power at unit test at "line" connection point on timer terminal. Improper voltage. No power at motors.	Check electrical supply, fuses, breakers, etc. Make sure that breaker is not in a "tripped" position. Check for loose connections at service panel and at vacuum connection to service. Use volt meter to determine that voltage is correct. Check at circuit breaker for correct voltage. (one vacuum per circuit) Use volt meter or circuit tester to determine that power is available at timer. Bypass coin switch (use jumper wire) to start timer cycle.
Erratic start:	Coin mechanism not generating accurate "pulse" to timer.	Check coin switch trip wire for free travel. Check initial position of trip wire. Check coin switch wires for correct connection. See Timer Set-up section of this manual for details.
Vending Problems:	Coin jams.	Check for "overfilled" coin box. Check for clearance of coin path to coin box (remove obstructions). Check "cradle" area of coin mechanism for severely bent coins. Check magnet for Canadian (magnetic) coins
Poor Performance:	Poor Suction: Poor Airflow:	Test by placing hand over hose end. Feel for "pull" with hose end sealed. Use a plastic bag or sheet to test for leaks at door opening. (Move sheet lightly past suspected areas - plastic will "stick" at leaks. Test for airflow (see "maintenance" section). An old golf ball or similar sized stone makes a great testing device. Problem is usually overfilled debris area or hose clog. Clean filters, check motors to be sure that both are working.
Other problems:	How to get additional technical help.	Call IVS at 800.442.7267 and say "Extension 608". Please have serial number or the vacuum ready. Serial plate is located at the base of the tank near the hose and electrical connection cover.



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Notes

POWER VAC WITH AIR DETAILING

[illegible]



CAUTION: Read the instructions before using the machine.



POWER VAC *WITH* **AIR DETAILING**

Power Vac with Air Detailing Model 250000 Install & Owner's Guide

**CAUTION: Read the
instructions before using
the machine.**



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