MAGIC VACUUM

MANUAL

Before accepting or unloading Any equipment, inspect all hardware for signs of damage or mishandling. On minor damage, notate the discrepancy on the shipping ticket and have the driver initial the ticket. Should major damage be evident contact Premier Touchless Drying Systems immediately for further instruction.

Please read this technical manual carefully prior to installing, operating or servicing your Premier Electronic Rear Load Vendor. If you have any further questions concerning the installation, service or operation of your Premier Electronic Rear Loader Vendor contact your Premier distributor prior to proceeding. Please refer to this manual for information and troubleshooting when servicing your vendor or when ordering parts.

Equipment not installed in accordance with this manual may cause damage to the equipment and/or the customer's property, and could void the warranty!

REVISION PAGE

Revision Number	Revision Inserted By	Date Inserted

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TOOLS & EQUIPMENT

Tools

- *Hammer Drill*
- *Masonry Drill Bits*
- *Mallet / Hammer*
- *Screw Driver-Flat-various sizes*
- *Screw Driver-Phillips-various sizes*
- *Nut Driver-Various Sizes*
- *Sockets and Drives*
- *Conduit Bender-If applicable*
- *Utility Knife*
- *VOM/Volt-Ohm-Meter*
- *Adjustable Wrench*
- *Wrench-Various Sizes*
- *½ Drill*
- *Drill Bits-Various Sizes*
- *Channel Locks*
- *OTHER NOT LISTED*

Equipment

- *Wire Nuts-Various Sizes*
- *Conduit*
- *Connectors-Conduit-Various*
- *Electrical Tape*
- *Anchors-3/8 • 4 minimum length*
- *Wire- Various gauges/sizes*
- *Fork Lift to move Vacuum*
- *OTHER NOT LISTED*

NOTICE: Other tools and equipment may be necessary for the installation of the vacuum, those listed above are only guidelines. Each site will dictate the tools and equipment needed.

STANDARD INSTALLATION

Installation of the Vacuum can be divided inot several sections: the anchor point, The electrical installation and anchoring the vacuum.

Anchor Point

What is the "Anchor Point"? This is where you will anchor the vacuum. Follow the directions below.

Premier highly recommends, in a standard installation, that the vacuum be mounted on a concrete pad.

(See TABLE #1 for concrete pad Dimensions)

Pad Dimensions

	Detail Vac
LENGTH	36"
WIDTH	36"
HEIGHT	30"

(TABLE #1: CONCRETE PAD DIMENSIONS)

Length

The length of the concrete pad is determined by the type and number of vacuums you are installing on the pad.

Width

The width of the concrete pad is determined by the type of vacuum being installed i.e. Round or oval.

Height

The height recommendation takes into account the average bumper height of most vehicles and is the suggested height for the safety of the vacuum. Please note that you will need to consult the local regulatory agency to determine if there is a height specification for the coin meter inlet chute from the ground to meet ADA, (Americans with Disabilities Act,) Requirements.

Anchor the Vacuum

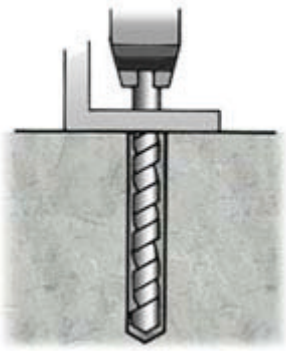
Anchoring the vacuum can be accomplished in three (3) simple steps: 1-Mark the anchor points, 2- Drill the Anchor holes and 3- Set the anchors.

Mark the Anchor Points

1) Place the Vacuum on the concrete pad using the forklift.
2) Using a Chalk Marker, marker, mark the concrete through the anchor points on the vacuum.

Drill the Anchor Holes

1) Shift the Vacuum to allow room to drill the marked points on the Concrete Pad.
2) Using a Hammer Drill and a 3/8" masonry bit drill the marked anchor points to a depth of 6"
3) Shift the Vacuum back into position over the anchor holes.

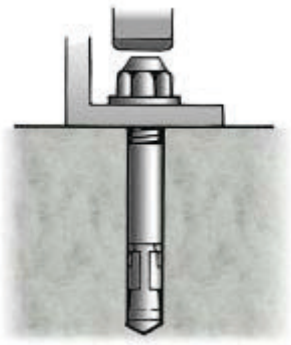


Drill Hole ½" to 1 " Deeper than Embedment. Clean hole of debris.

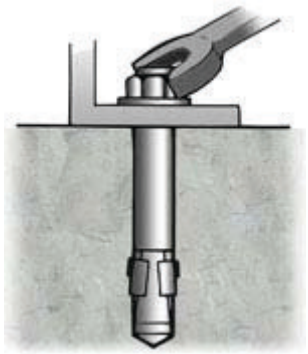
Set the Anchors

1) Using 3/8" x 4" concrete wedge anchors, (example: redheads, thunder stud), and a hammer or mallet, hammer the anchors into the concrete with the vacuum in postion.

2) Place the Nut on the anchor and tighten using the appropriate wrench or socket.



With nut threaded past end of stud hammer into position.



Tighten finger tight with an additional 3-5 turns with a wrench.

Electrical Installation

Premier Vacuums arrive to the location pre-wired from the factory. The vacuum requires only a single phase service circuit with the proper amperage, voltage, phase and wire size, connected properly to the vacuum in order to run.

(See TABLE #2 for electrical requirements)

Vac Type	VOLTS	AMPS	PHASE	Hertz (Hz)
Round 3 Motor	115/120	30	1	60

(TABLE #2: ELECTRICAL REQUIREMENTS FOR DETAIL VAC)

lt single-phase applications. Please

NOTICE: Table #2 depicts the requirements for a standard Premier Vacuum; however, Premier does offer vacuums to meet non-Domestic needs and 240 Vo single-phases applications. Please call Premier for more information concerning vacuums that require this type of application.

Electrical Circuit Installation

1) Install a conduit that “stubs-up” no Higher than one (1) inch above the ground/pad directly under and in the center of the installation point for the new Premier Vacuum.

2) Pull the wires for the Vacuums Electrical Circuit through the conduit from the Service Panel to the Vacuum Pad.

NOTICE: Follow all NEC, (National Electric Code), State and Local regulations when installing the electrical service to the Vacuum.

ELECTRICAL CONNECTION

Though it is not standard, all Premier 3-IN-1 vacuums can be ETL (Environmental Testing Laboratories) certified for those locations that require it.

Connection Point

Located in the bottom of the vacuum, (viewable through the bottom control cabinet door)
Is the Electrical Junction Box. Connect the service power to the botton of the terminal strip and breaker.

(ELECTRICAL CONNECTION)

TIMER

In the Magic Vac, the IDX Bt902 Big Two Timer is used. The Big Two Timer is a multi value timer; count down display and scrolling message sign with the ability to provide two different service time values.

FEATURES:
*Dual time/value accumulating timer for multi-value services or promotions.

BILL ACCEPTOR

The Magic Vac utilizes the Mars Ae2400 bill acceptor.

FEATURES:

- Interface not required for connection to the timer.
- $1, $2 and $5 bills accepted.
- Four direction bill acceptance.
- Coupon configuration.
- Easy access to bill path (even while mounted).
- Diagnostic LED (located on back of unit).
- Enhanced security.

Coupon configuration (All switches off)

1. **Carefully remove the coupon** from the Installation Guide. If possible, make copies of the coupon with a standard, carbon-based, non-color copier. Copies of the coupon are usable if cut to match the size of the attached coupon.

2. **Fill out the coupon** using a #2 pencil to fill in the blocks for desired options. For correct operation, all 5 sections must be completed. Fill in only one block per line. **Do not mark the back of the coupon.**

Complete Section 1 to enable desired bill direction. Enable 1 or 2 direction face up, or 4 way acceptance (which allows acceptance in all directions)

Complete Section 2 to enable desired bill denominations. Fill in one block for each denomination. High Accept enables maximum bill acceptance. High Security may be desired for locations where a higher level of discrimination is desired. OFF will reject bills of the selected denominations.

Complete Section 3 to enable appropriate Credit function for pulse and credit line interfaces.

Complete Section 4 to enable pulses per dollar. Most vendors use 1 pulse per dollar.

Complete Section 5 to control the Bezel lights (Compact Bezel only). Flashing or constantly on may be selected.

3. **Locate the service button** on the back of the unit (refer to Figure 6). Depress the button once to enter coupon set-up mode. Depressing again will exit the mode.

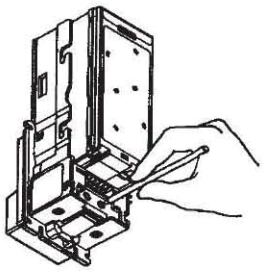


Figure 6.

4. **Insert coupon and verify settings were accepted.**

ACCEPTED: Coupon returned immediately and LED flashes 10 times when coupon pulled out.

REJECTED: Coupon returned after ten seconds. LED flashes number of times corresponding to section improperly filled out. Example: Six flashes for improper section six. If rejected, review instructions or try new coupon.

CLEANING

The VN2500 series will not need cleaning as often as magnetic sensing Bill Acceptors. If cleaning is required, use a soft cloth moistened with mild, non-abrasive detergent. Refer to label located on the back of the magazine for cleaning instructions.

FREE VEND COUPONS AND BILL PROGRAMMING

Follow the same process to program the Talos with bills or free vend coupons, but note that the LED codes are slightly different:

Flashes	Meaning
10	The bill or vend coupon has been enabled successfully
7	The bill validator was unable to read the bill or vend coupon. Try again.
3	The bill or vend coupon has been disabled

OTHER DOCUMENTATION

All support documentation, including a downloadable copy of this coupon, can be found at Cranepi.com/support.

Scan

Log in

Tap Support

And select **My Library**

Tap

Add a Product

Then

Use the filters or scroll to find Talos

Tap

View Downloads

Then

Choose your Document

COUPON SECTIONS

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.

SECTION 4 - PULSES PER DOLLAR

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

SECTION 5 - INTERFACE MODE

Harness Enable - requires an input from the controller to enable and accept bills.

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

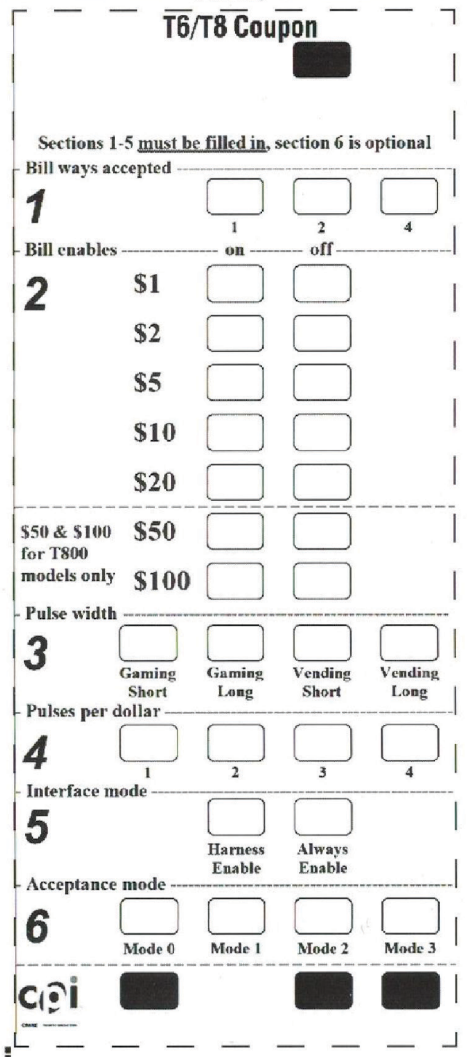
SECTION 6 - ACCEPTANCE MODE

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

Print actual size

66mm

156mm



Cut carefully on the dotted line. The coupon should be the same size as an American bill when complete.

Talos T6/T8 ™ Coupon Guide

Carefully cut coupon from this page or make one copy of this coupon.

Copies are usable if made on a standard, carbon-based copier. Make one copy of the original at a time, as copiers tend to reduce the size of the coupon when multiple copies are made.

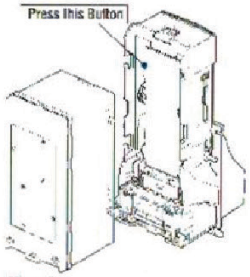
Fill out the coupon using a #2 (HB) pencil. Fill in one block for each line. Do not mark the back of the coupon.

Note that Talos units are preconfigured with the following options enabled:

- Bill Ways Accepted: Four Way
- T6 Bills Enabled: $1 - $20
- T8 Bills Enabled: $1 - $100
- Pulse Width: Gaming Short
- Pulses Per Dollar: One
- Interface Mode: Harness Enable
- Acceptance Mode: Mode Zero

Initiating Coupon Mode

1. Remove the bill magazine
2. Use a pencil or a screwdriver to press this button to enter configuration mode, then reattach the bill magazine to initiate Coupon mode:



When coupon mode is activated, the bezel lights will rapidly flash

1. Insert a completed configuration coupon
2. Watch the bezel LEDs and count the flashes when the configuration coupon is returned
3. Use this chart to confirm successful programming:

Flashes	Meaning
10	Configuration coupon accepted and unit successfully programmed.
1 - 5	Coupon rejected. Number of flashes corresponds to the coupon section that was improperly filled out. Try again.
7	Coupon not read. Confirm the coupon correct and try again.

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COIN MECHANISM

The Magic Vac utilizes the IDX-10 X-Mark®Xeptor® Coin mechanism. The IDX-10 Is a smart multi-coin acceptor that can be programmed for up to six coins and makes coin jams a thing of the past.

FEATURES:

- Can be programmed for up to six coins.
- Measures the metal alloy on the edge and center of coin
- Improved coin chute to eliminate coin jams.
- Built in diagnostic LED.
- Accepts up to 20 coins per second.
- Slide on access covers shed spilled liquids.
- Eliminates coin shaving.

IDX Inc. Models X10/X10CM/X10CB
Coin Learn & Field Test Procedure

COIN LEARN PROCEDURE

1. Slide the front cover up and identify the three controls to be used in this procedure:

    - Black or Red push button near center bottom. (used to input the number of credit pulses)

    - 16 position rotary switch to the right of the push-button. (#0 is normal RUN position, #1-#6 are for learning each of 6 possible coin types that can be accepted).
    - LED indicator half way up on the right side. (Green in RUN mode, red in LEARN mode)
2. Turn the rotary switch to one of the LEARN positions #1-#6 or #1-#C (for e•ample, pick #3 for learning the 3rd coin type) and observe the LED turns red to indicate it is now ready to learn.
3. Push the black or red button once for each credit pulse you wish to have issued for this coin. For Example, a $1 coin would require 4 credit pulses if you are also accepting $0.25 coins, one credit pulse per quarter.
4. **Slide the cover back on the unit to make sure outside light does not interfere with the sensors**.
5. Show the unit **6 different samples** of the coin by depositing them into the acceptor as usual. It is best to use 6 different coins since there are typically slight variations from coin-to-coin.
6 After the 6th sample coin is deposited, the LED will flash red-green a few times to indicate the LEARN procedure is complete and the coin parameters are stored in memory.
7. Slide the front cover open again and turn the rotary switch back to position #0 and observe the LED turning green. Check that you have not accidentally turned it too far to position #15 which is a field test function position, in which it will not accept coins.
8. Slide the front cover back down and you should now be able to accept the new coin.

UNWANTED COIN FEATURE

1. Use the same coin learn procedures as above.
2. THE COIN YOU DO NOT WANT TO ACCEPT MUST BE LEARNED IN COIN POSITION #1. Turn to position #1 and press the test button 13 times, **drop the same sample coin through that you do not want to accept 6 times**. NEXT LEARN THE COIN YOU WANT TO ACCEPT IN COIN POISITION #2. Turn to position #2 and press the test button for the number of times for the value of your coin to be accepted, **drop the same sample coin through that you do want to accept 6 times.** Now turn back to 0 the operating position.

Coin De-Learn Procedure

1. Slide the front cover up and turn the rotary switch to the coin # position you wish to DE-LEARN.
2. Push the black or red button once to initiate the LEARN sequence.
3. Turn the rotary switch back to position #0 with out depositing any coins to signal the unit that you wish it to erase the parameters for this coin. The LED will flash red-green to indicate completion.
4. Slide the front cover back down.

FIELD TESTS & DIAGNOSTICS FOR X10/X10CM/X10CB

Normal operation in switch position #0 is shown by a green LED. If the LED is flashing yellow or alternately red-green, it indicates a malfunction has been detected. Some malfunctions can be corrected in the field. See below.

GATE RELAY TEST (rotary switch #0)

Press the black or red button to activate the gate relay. If not normal, it may be physically obstructed or its wire unplugged.

INDUCTIVE METAL SENSOR TESTS (rotary switch #E, #F)

Turn the rotary switch to positions #E and #F to test the inductive sensor. Normal LED color is green. A red color indicates either there is metal in front of the inductive sensors or the circuit is malfunctioning (usually the rear flat cable unplugged).

DIAMETER OPTICS SENSOR TESTS (rotary switch #B, #C, #D)

Turn the rotary switch to positions #B, #C, and #D to test the diameter thru-beam optical sensors. Normal LED color is green. A red or orange color indicated either there is an object or dirt blocking one of these three sensors and cleaning of the coin cute is required, or the circuit is malfunctioning.

X-MARK® CODE OPTICS SENSOR CALIBRATION (rotary switch #9, #A for Model X-10 only)

Fold a piece of white paper twice (to 4 thicknesses) and insert it into the center of the coin chute. Turn the rotary switch to position #9 (rear side optics) and press the black or red button. The unit will use information gathered to calibrate the sensitivity of its reflective sensors for reading the X-Mark® optical code on tokens. The LED should be an orange color after calibration. Repeat for switch position #A (front side optics).

CREDIT SENSOR TEST (rotary switch #8)

Turn the rotary switch to position #8 to test the Credit Sensors (V2.0 chip and after). If not installed the LED will blink yellow, if installed and in good order it will be green, if installed and dirty or blocked, orange to red color.

MEMORY TEST (rotary switch #7)

Turn the rotary switch to positions #7 to test the validity of memory. Normal LED color is green. A red color indicates that memory is corrupted. It may be possible to correct this by re-learning the coins. If not, the memory chip is bad.

AIR COMPRESSOR

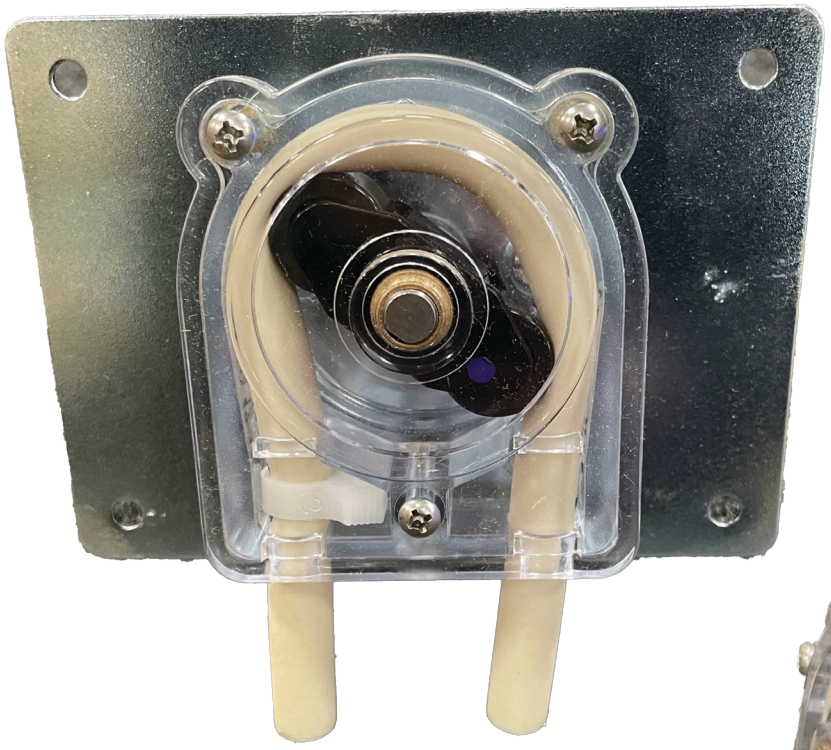
The Detail Vac uses a 1/3 HP diaphragm type air compressor. This compressor delivers the right Amount of air to your foam brush to create the appropriate foam/liquid mixture for proper upholstery Cleaning. The air compressor requires no oil and is very dependable.

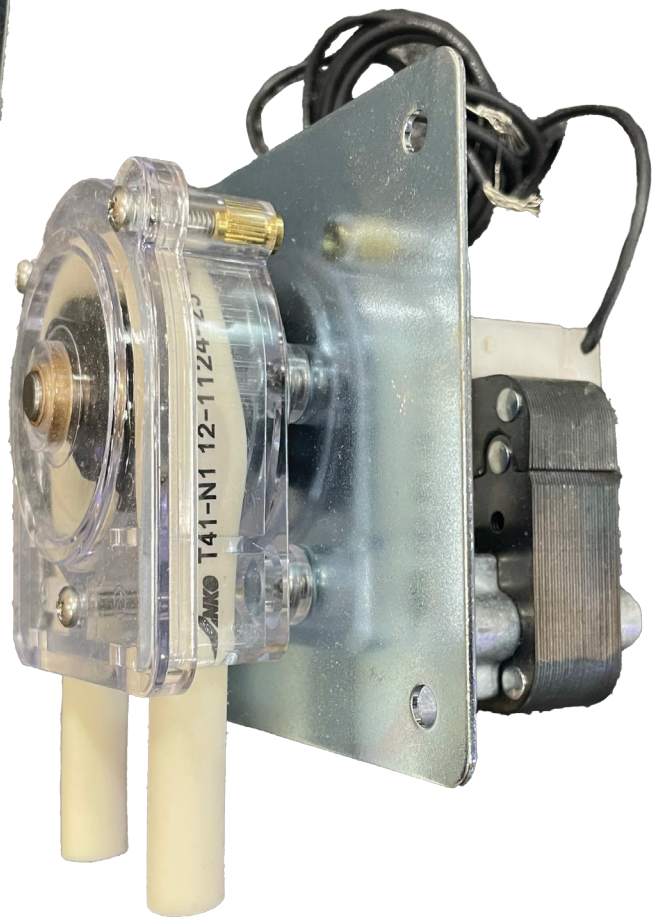
Low		High		Pump	Motor	Excess	Reason and remedy
Vacuum	Pressure	Vacuum	Pressure	Overheat	Overload	Noise	for problem.
•	•	At Pump		•	•		Filter dirty. Clean or replace.
•	•		At pump	•	•		Muffler dirty. Clean or replace.
•	•						Valves dirty or valves bent. Clean or replace.
•	•						Worn piston rings. Repair or replace.
			•	•	•		Relief valve set too high. Inspect and adjust.
•	•						Relief valve set too low. Inspect and adjust.
•	•	At pump	At pump	•	•		Plugged vacuum/pressure line. Inspect and repair.
•		At pump					Collapsed vacuum line. Inspect and repair.
				•	•		Low voltage, won't start. Check power source.
				•	•	•	Voltage wrong. Check power source.
•	•					•	Worn rings/piston hitting cylinder. Replace.
				•		•	Cylinder misadjustment. Realign.
•	•						Leaky hose or check valve. Replace.
•	•			•	•	•	Dirt or liquid on top of piston. Inspect and clean.
•	•			•	•		Motor not wired correctly. Check wiring diagram/line voltage.
•	•					•	Blown head gasket. Replace.

(AIR COMPRESSOR AND COMPRESSOR TROUBLESHOOTING GUIDE)

FOAM BRUSH SUPPLY PUMP

Shampoo and spot remover is flawlessly delivered to the foam brush via a peristaltic pump mounted In the lower cabinet of the vacuum. Easy connect/disconnect fittings have been added to allow for easy removal of the pump from the system for testing or tubing replacement.





FEATURES:

- More reliable pump
- Takes up smaller space
- More consistent supply of fluid
- Maintenance friendly
- Built in cooling fan prevents overheating

MAINTENANCE

DAILY

Operational test of vacuum
Operational test of shampooer
Operational test of fragrance gun
Operational test of spot remover
Empty vacuum trash collectors (if needed)
Wipe down vacuums
Coil hoses on hose hangers
Inspect hoses for wear
Empty coin collectors and bill collectors
Pick up vacuum area
Check door bulb cover not cracked
Check display screen not cracked
Inspect claws for wear and cracks

WEEKLY

Clean out lower portion of vacuum
*Scrub vacuum area (remove Gum, dirt buildup, etc.)**
*Clean vacuum island canopy (if installed)**
Check vacuum bags

MAY

*May 1st (or temperatures maintaining above 40F, which ever is first) switch to regular formulas (shampoo, spot remover and fragrance) **

OCTOBER

*October 1st (or temperatures dropping below 40F, which ever is first) switch to winter formulas (shampoo, spot remover, and fragrance)**

ANNUALY

Replace door gaskets
Replace vacuum bags (if needed)

AS REQUIRED

*Clean coin boxes**
*Clean coin lens**
*Change out fragrances**
Replace hoses and claws
*Clean dome**
Replace decals
*Clean fragrance containers**

**When using any chemicals/cleaners follow product safety precautions and instructions at all times.*

TROUBLESHOOTING

Symptoms	Possible Causes
Vacuum fails to start.	- Check switch position. - Check power to and from switch. - Check power to and from transformer. - Check power to and from mercury switch. - Check power to and from vacuum motors.
Shampoo/spot remover does not dispense.	- Check that containers have product. - Verify power to product pump. - Verify that the ice cube relay on the circuit board is not sticking and is making contact properly. - Verify power to the product on the rotary switch. - Verify using a multi-meter that the button creates a complete circuit. - Check for leaks.
<u>TIMER PROBLEMS</u> Display not lit up.	 - Verify voltage to timer (22-28 volts) - For a push type connector, disconnect and reconnect. - Clean connection pins. - Shut of power for 30 seconds and reapply.
Inserted coins are accepted but do not add up time.	- Ensure timer is programmed correctly. -Check polarity. Make sure timer is wired according to timer instructions not coin mechanism instructions.
Numbers on display are missing segments.	- Bad display or internal driver. Return timer for service.
Display reads proper amount of time but does not count down or start equipment.	- Double check programming. (Specifically time per coin and coins to start calculations.)

BILL ACCEPTOR	
Unit dead (wont power up).	- Harness may be loose, not properly connected, or have bent pins. - Check supply voltage to bill acceptor.
Red message LED flashing.	- Refer to label on back of the magazine.
Unit takes a bill but won't give credit.	- Check pulse signal to ensure that the proper signal has been selected (long/short pulse).
COIN MECHANISM	
Rejects coins/tokens	- Clean sensor and coin chute. Use a damp cloth (hot water only). - De-learn coins and re-learn.
Coins/tokens get stuck	- Adjust coin slide per IDX-10 paperwork.

PARTS LIST

Motors/Pumps and Components

Vacuum Motor 110v	PVP601
Vacuum Motor 220V	PVP601 + PVP 220
Vacuum Motor Gasket	PVP100-028
Vacuum Motor Mounting Spring	PVP100-038
Foam Brush Supply Pump	PVP100-058

Electrical Components

Mercury Contactor /24ATH - Coin Mech	PN200-018
Transformer	PVP200-028
Transformer Fuse	PVP200-038
Ice Cube Relay	PVP200-048
Breaker 25AMP	PVP 200-058
Breaker 32AMP	PVP 200-068
Light Socket	PVP200-078
Florescent Light	PVP200-088
Circuit Board	PVP200-098

Vacuum and Chemical Distribution Parts

Vacuum Bag	PVP300-018
Wire Tie for Vacuum Bag Installation	ECN1208
Vacuum Hose (Rainbow, 2X15 FT)*	PVP300-028*
Vacuum Cuff Swivel	PVP300-068
Upholstery Tool (Claw, Gray)	PVP300-078
Chemical Distribution Solenoid Valves 4 Valve	PVP300-098
Foam Brush	PVP400-50

Miscellaneous Parts

Vacuum Dome (Red)	PVP500-CR8
Vacuum Dome (Yellow)	PVP500-CYL8
Vacuum Dome (Green)	PVP500-CGR8
Vacuum Dome (Blue)	PVP500-CBL8
Vacuum Dome (Black)	PVP500-RBK8
Clean Out Bucket	PVP300-138
Rubber Mounting Foot Caps	PVP400-158
T-Handle Lock Assembly	PVP400-158
Chemical Container (64 oz. Rectangular)	PVP400-078
Chemical Strainer	PVP400-088

*Depends on color needed

PARTS LIST (con't)

Decals

Dome Side Decal.....
Dome Front Decal .....
Body Decal.....
Meter Door Decal (Basic) ** DDEC-MD300

Meter Door Components

Timer (Digital Display) TIM9200
Coin Mechanism..... MET2380
BIll Acceptor PVP806
Rotary Switch PVP600-128

Shampoo and Spot Remover

Carpet Shampoo (Winter)§.....SOP2450
Spot Remover SOP2475

*Other colors available per request.
**Decals for meter doors with bill acceptors or other custom options must be specified when ordering.
*******Call for Information.
§ Summer formulas are normally used in warmer climates. It is recommended to change out to the winter formula during The winter (OCT1-MAY1, or temps maintaining less than 40F) to prevent freezing the fragrance lines and damaging your pumps.

DRAWINGS AND DIAGRAMS

Magic Vac Access Dimentions .....#1

Magic Vac Stud Placement.....#2

Magic Vac 6DWG008

Magic Vac Door Assembly.....6DWG009

Magic Vac Upper Cabinet Components.....6DWG007

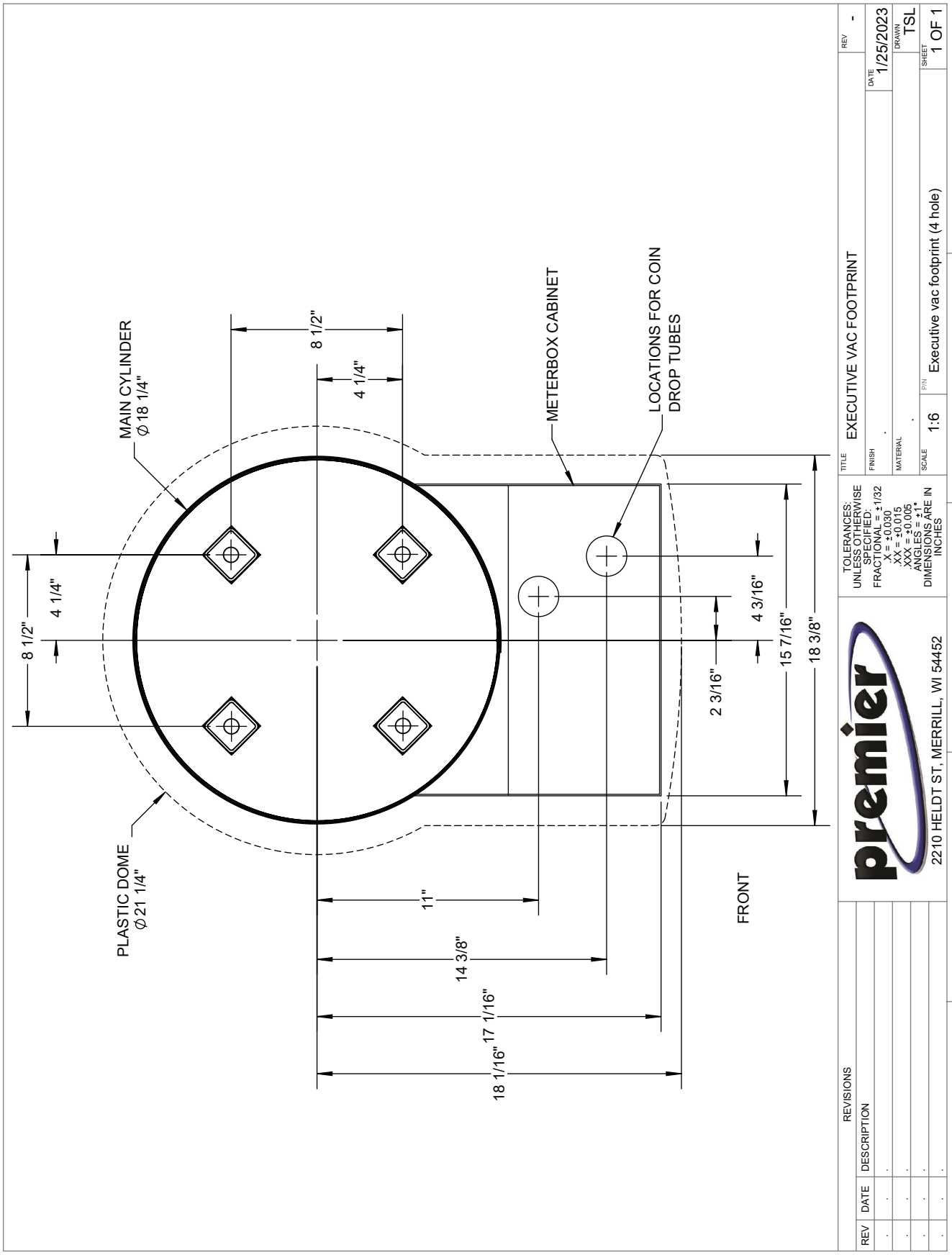
Magic Vac Lower Cabinet Components 6P051119

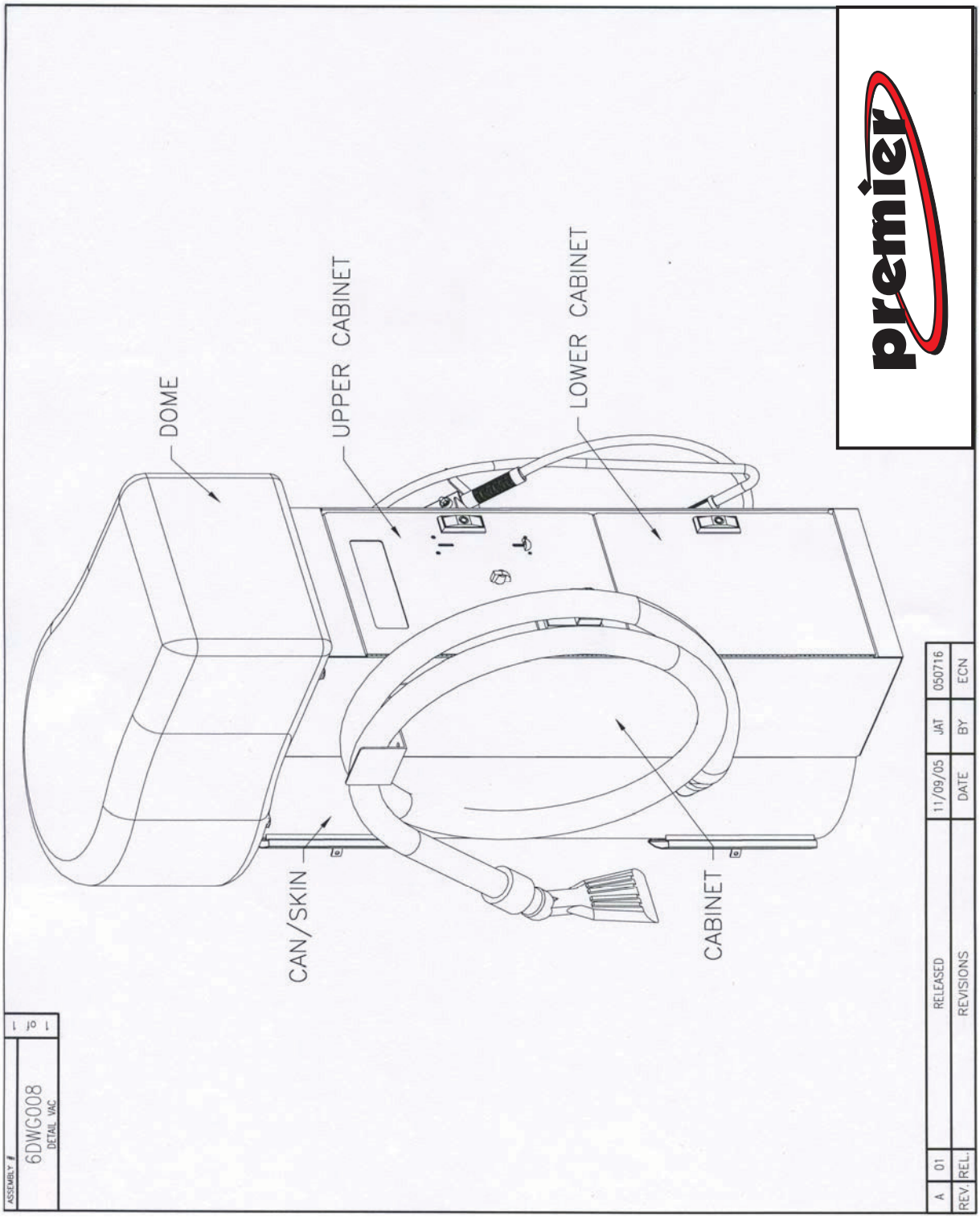
Magic Vac Components.....6DWG010

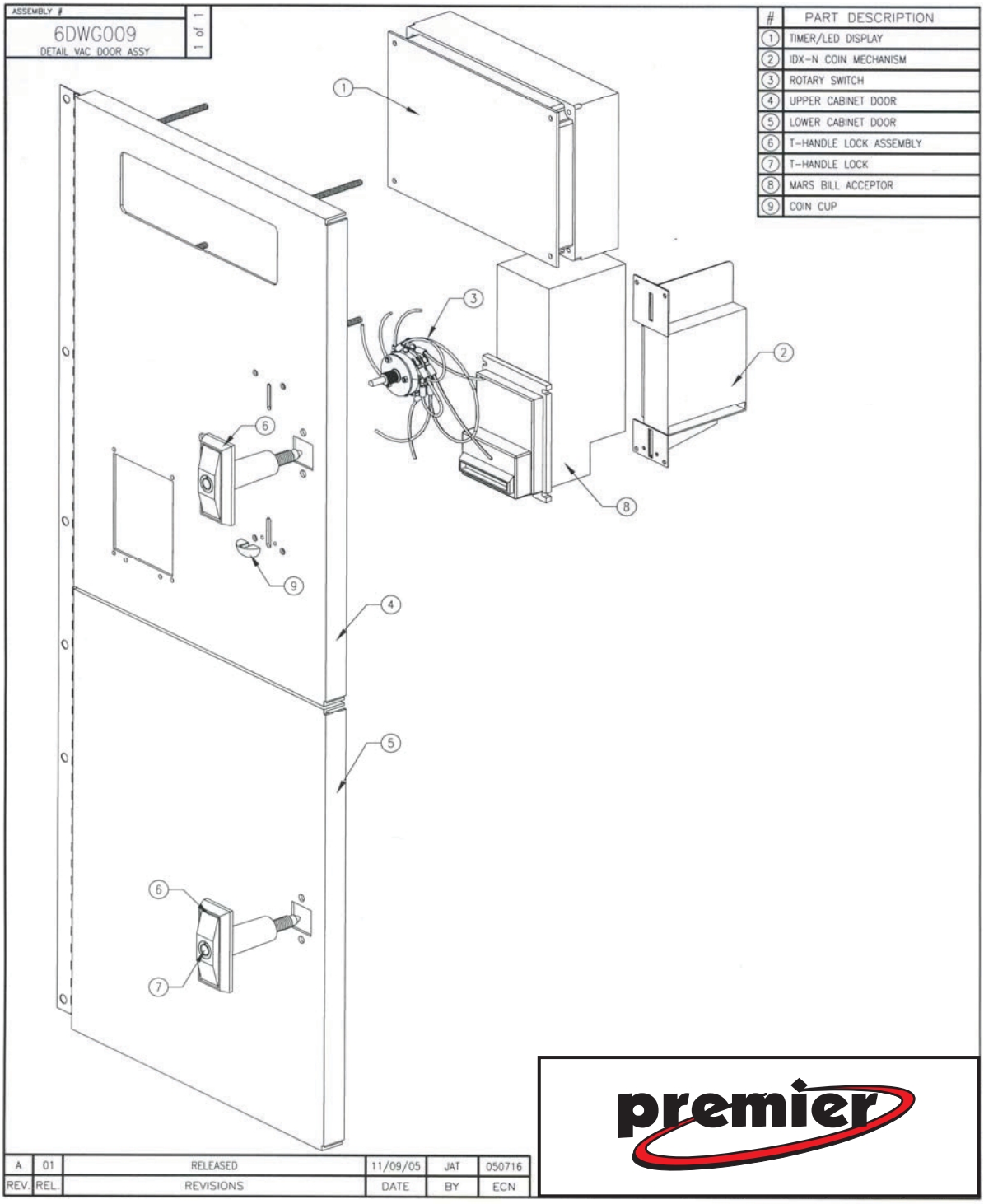
Magic Vac Lower Cabinet Wiring Diagram 6WIR003

Magic Vac Upper Cabinet Wiring Diagram.....6WIR006

Magic Vac Rotary Switch Wiring Diagram.....6WIR009

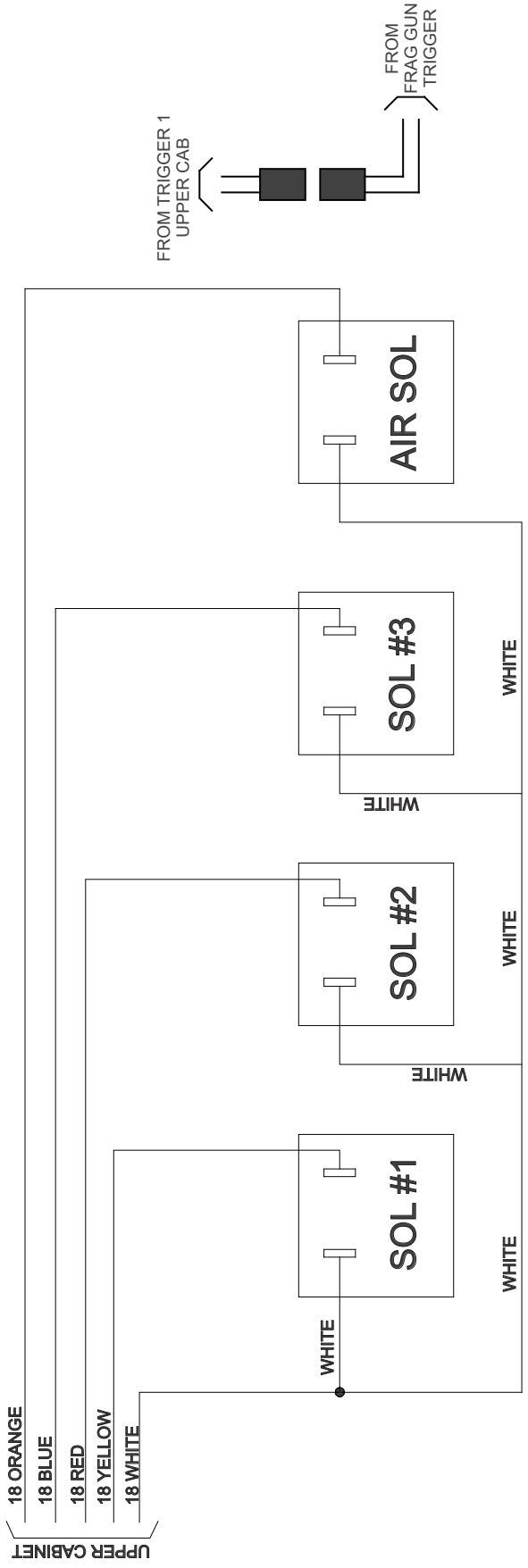

MAIN CYLINDER
Ø 18 1/4"
PLASTIC DOME
Ø 21 1/4"
METERBOX CABINET
LOCATIONS FOR COIN
DROP TUBES
8 1/2"
4 1/4"
8 1/2"
4 1/4"
11"
14 3/8"
17 1/16"
18 1/16"
2 3/16"
4 3/16"
15 7/16"
18 3/8"
FRONT
REVISIONS
REV
DATE
DESCRIPTION
TOLERANCES:
UNLESS OTHERWISE
SPECIFIED:
FRACTIONAL = ±1/32
.X = ±0.030
.XX = ±0.015
.XXX = ±0.005
ANGLES = ±1°
DIMENSIONS ARE IN
INCHES
premier
2210 HELDT ST, MERRILL, WI 54452
TITLE
EXECUTIVE VAC FOOTPRINT
FINISH
MATERIAL
SCALE
1:6
P/N
Executive vac footprint (4 hole)
REV
-
DATE
1/25/2023
DRAWN
TSL
SHEET
1 OF 1


premier
DOME
UPPER CABINET
LOWER CABINET
CAN/SKIN
CABINET
ASSEMBLY #
6DWC008
DETAIL VAC
1 OF 1
A 01 RELEASED 11/09/05 JAT 050716
REV. REL. REVISIONS DATE BY ECN

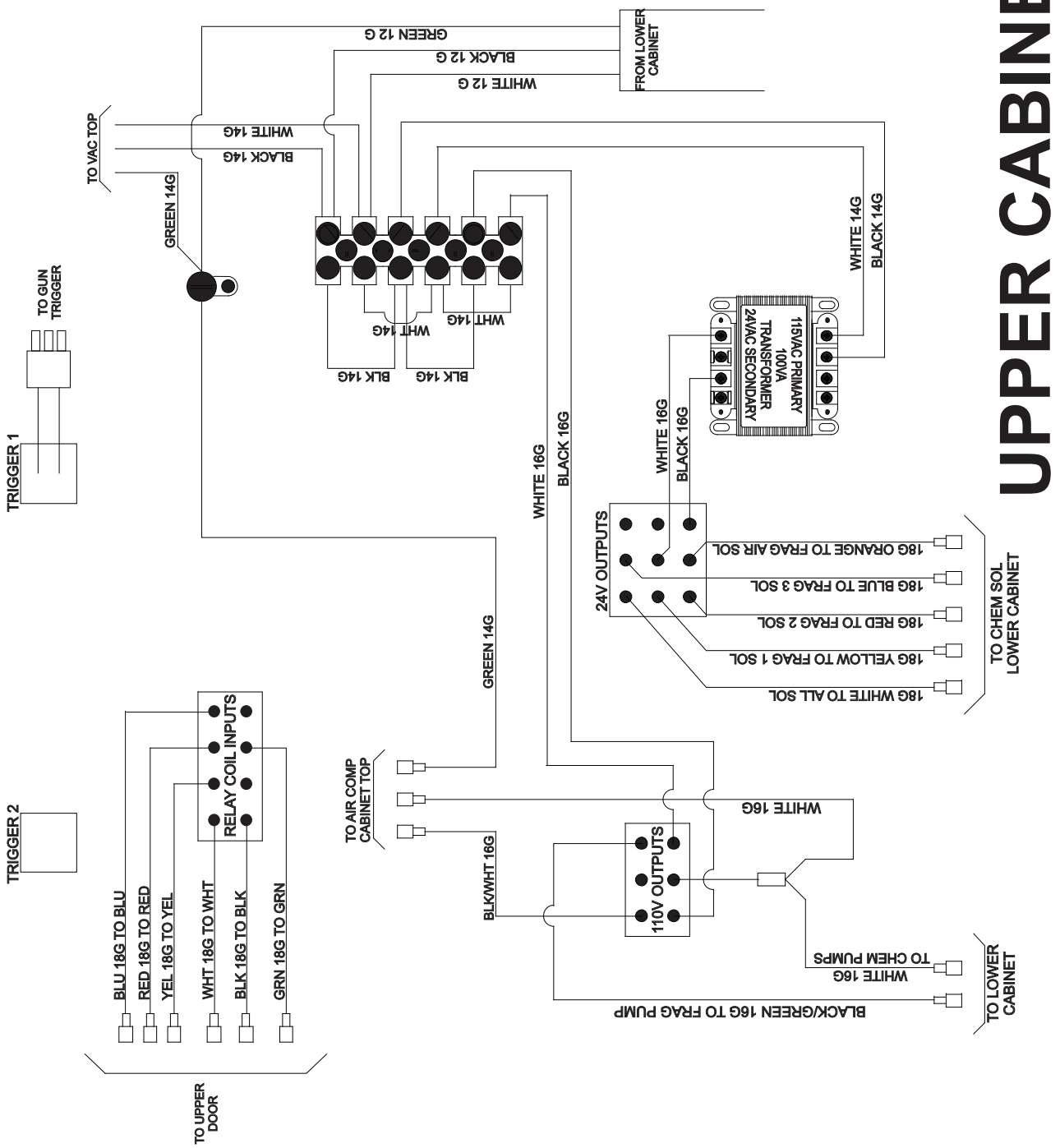

ASSEMBLY #
6DWG009
DETAIL VAC DOOR ASSY
1 of 1
PART DESCRIPTION
1 TIMER/LED DISPLAY
2 IDX-N COIN MECHANISM
3 ROTARY SWITCH
4 UPPER CABINET DOOR
5 LOWER CABINET DOOR
6 T-HANDLE LOCK ASSEMBLY
7 T-HANDLE LOCK
8 MARS BILL ACCEPTOR
9 COIN CUP
A 01 RELEASED 11/09/05 JAT 050716
REV. REL. REVISIONS DATE BY ECN
premier

premier
PART DESCRIPTION
1 VACUUM MOTOR
2 VACUUM MOTOR GASKET
3 VACUUM MOTOR MOUNTING SPRING
4 LIGHT SOCKET
5 FLORESCENT LIGHT
6 VACUUM BAG
7 CLEAN OUT BUCKET
8 AIR COMPRESSOR
9 FOAM BRUSH VAC2030
10 MERCURY CONTACTOR
ASSEMBLY #
6DWG010
DETAIL VAC. COMPONENTS
1 of 1
A 01 RELEASED 11/11/05 JAT 050716
REV. REL. REVISIONS DATE BY ECN

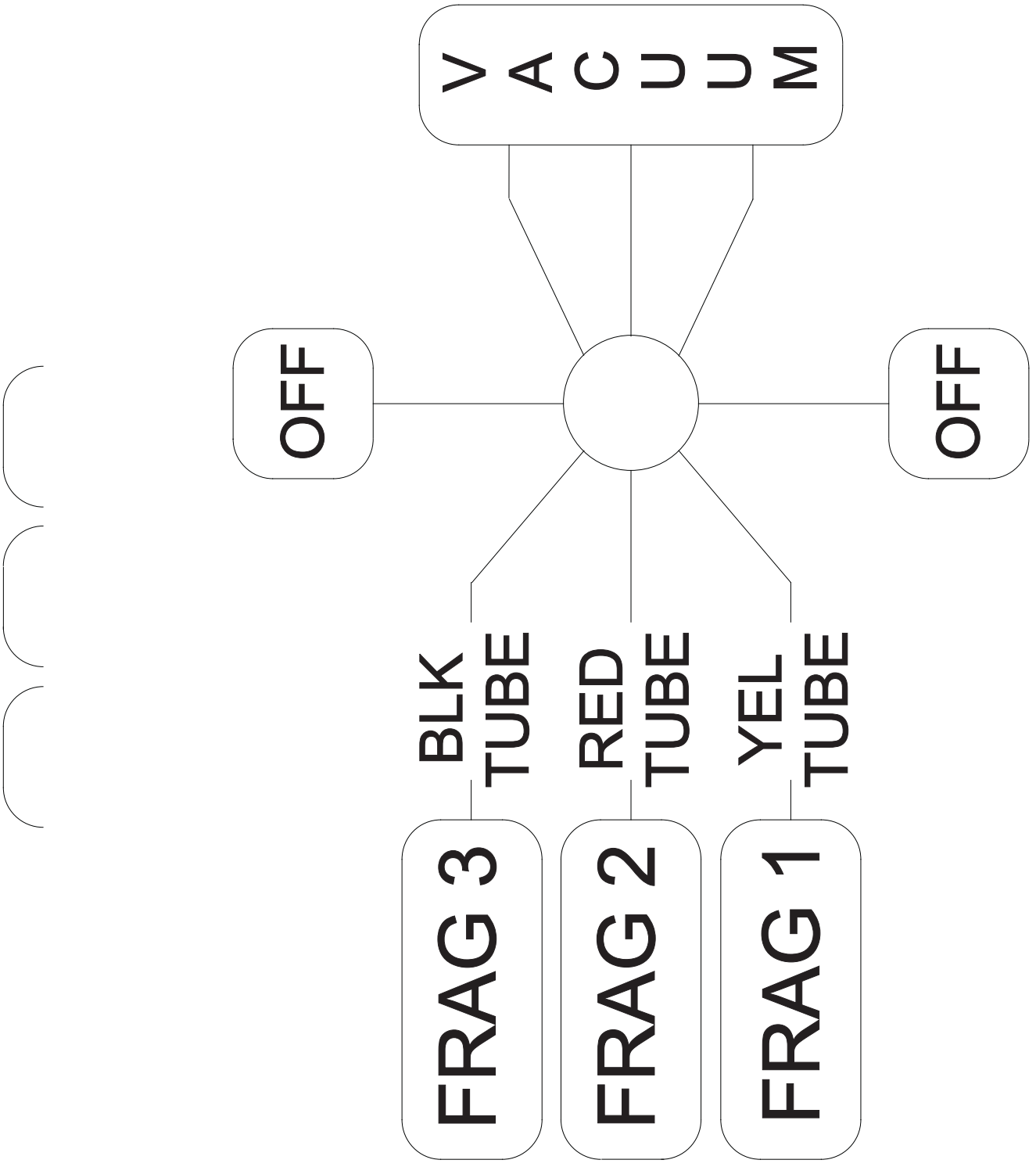
LOWER CABINET



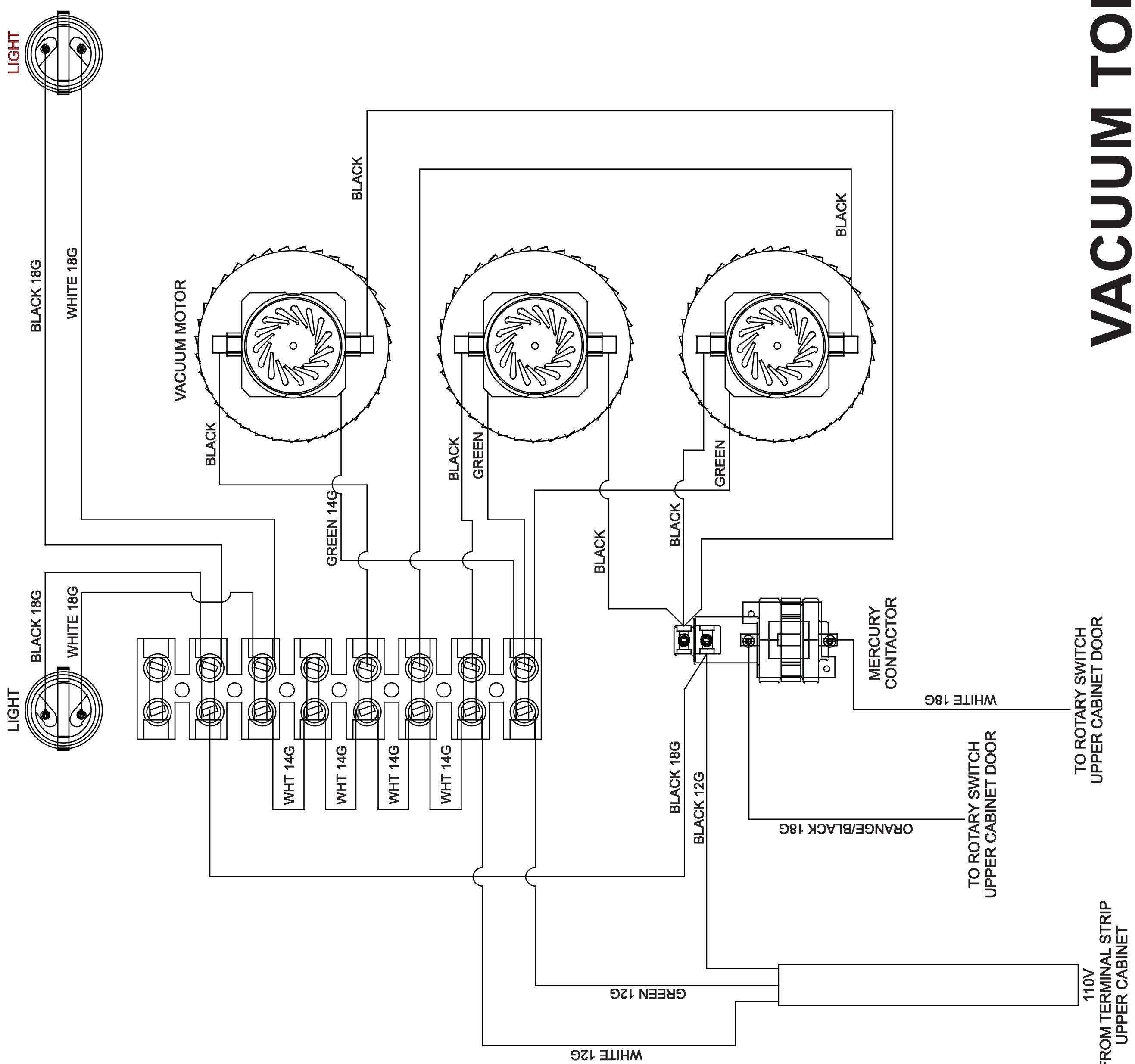
UPPER CABINET



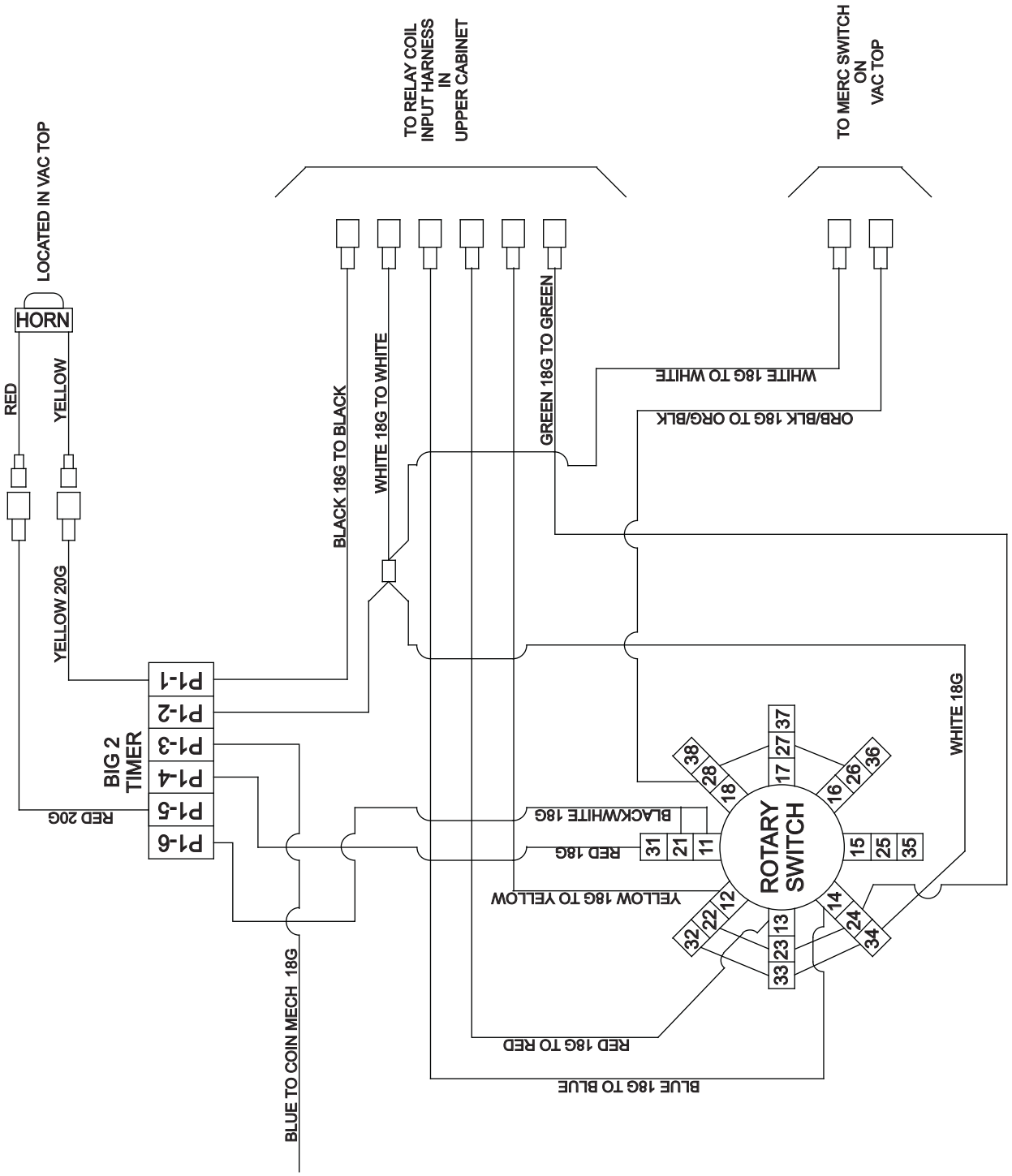
SWITCH LAYOUT



VACUUM TOP


LIGHT
BLACK 18G
WHITE 18G
LIGHT
BLACK 18G
WHITE 18G
VACUUM MOTOR
BLACK
BLACK
GREEN
BLACK
GREEN
BLACK
GREEN 14G
BLACK
BLACK
WHT 14G
WHT 14G
WHT 14G
WHT 14G
MERCURY
CONTACTOR
WHITE 18G
TO ROTARY SWITCH
UPPER CABINET DOOR
ORANGE/BLACK 18G
TO ROTARY SWITCH
UPPER CABINET DOOR
BLACK 18G
BLACK 12G
GREEN 12G
WHITE 12G
110V
FROM TERMINAL STRIP
UPPER CABINET

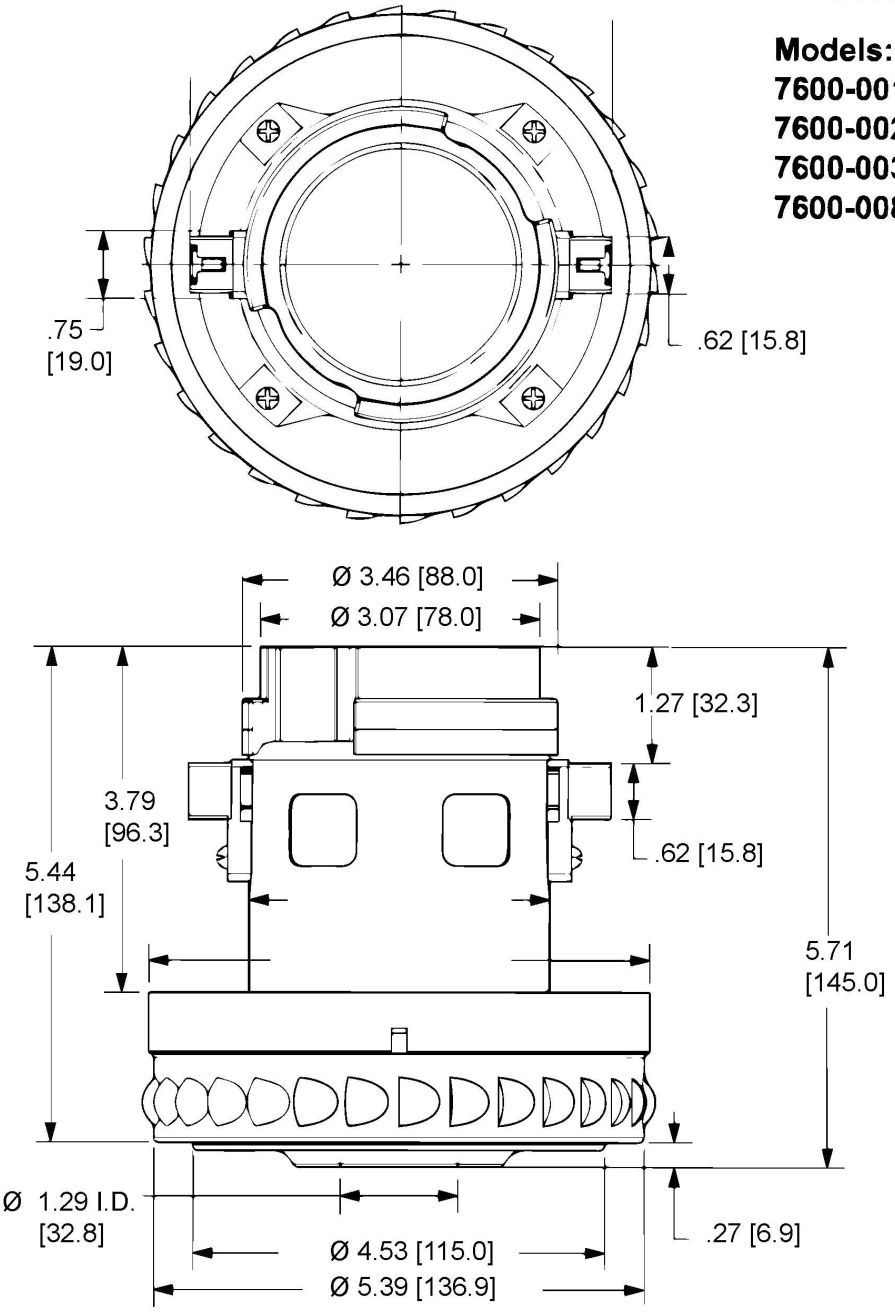
DOOR WIRING


TO RELAY COIL INPUT HARNESS IN UPPER CABINET
TO MERC SWITCH ON VAC TOP
LOCATED IN VAC TOP
HORN
RED
YELLOW
YELLOW 20G
RED 20G
BLACK 18G TO BLACK
WHITE 18G TO WHITE
GREEN 18G TO GREEN
WHITE 18G TO WHITE
ORB/BLK 18G TO ORG/BLK
BIG 2 TIMER
P1-1
P1-2
P1-3
P1-4
P1-5
P1-6
ROTARY SWITCH
BLACK/WHITE 18G
RED 18G
YELLOW 18G TO YELLOW
RED 18G TO RED
BLUE 18G TO BLUE
BLUE TO COIN MECH 18G
WHITE 18G

MOTOR DATA

OptiMotor LLC
ELECTRICAL PRODUCTS

Models:
7600-001
7600-002
7600-003
7600-008



Note: Dimensions are for reference only
and subject to change.
Tolerance of up to +/- .040" [1.0mm]
Can be expected.

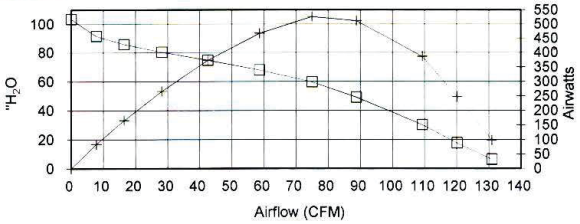
MOTOR DATA (Con't)

Date Last Modified: 3/18/2014

7600-001

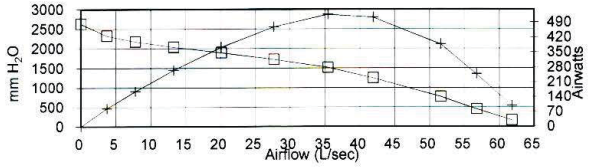
AIRFLOW PERFORMANCE

Volts = 120



OptiMotor LLC ELECTRICAL PRODUCTS

ORIFICE (Inches)	SUCTION ("H_2O)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION ("H_2O)	AIR FLOW (CFM)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
2	**6.08**	**1279**	**11.0**	**31,027**	6.4	130.9	1326	97.98	0.131	7.39
1.5	**16.76**	**1284**	**11.1**	**30,789**	17.6	120.1	1332	247.95	0.332	18.62
1.25	**28.77**	**1288**	**11.1**	**30,864**	30.2	109.3	1336	387.32	0.519	29.00
1	**46.83**	**1265**	**10.9**	**31,182**	49.1	88.8	1312	511.96	0.686	39.03
0.875	**56.94**	**1238**	**10.7**	**31,546**	59.8	75.0	1284	526.18	0.705	40.97
0.75	**64.76**	**1195**	**10.3**	**32,138**	68.0	58.6	1240	467.56	0.627	37.72
0.625	**71.23**	**1136**	**9.8**	**33,231**	74.8	42.6	1178	373.66	0.501	31.71
0.5	**76.62**	**1067**	**9.1**	**34,301**	80.4	28.2	1107	266.07	0.357	24.04
0.375	**81.83**	**1001**	**8.5**	**35,761**	85.9	16.5	1038	165.90	0.222	15.98
0.25	**87.34**	**943**	**8.0**	**37,127**	91.7	7.9	978	84.50	0.113	8.64
0	**98.75**	**901**	**7.7**	**38,469**	103.6	0.0	934	0.00	0.000	0.00
	POLYNOMIAL PEAK AIRWATTS:				**524.70**					



Metric Data ORIFICE (mm)	SUCTION (mm H_2O)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION (mm H_2O)	AIR FLOW (L/sec)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
50.8	**154**	**1279**	**11.0**	31,027	162	61.8	1326	98.0	0.131	7.39
38.1	**426**	**1284**	**11.1**	30,789	447	56.7	1332	248.0	0.332	18.62
31.8	**731**	**1288**	**11.1**	30,864	767	51.6	1336	387.3	0.519	29.00
25.4	**1189**	**1265**	**10.9**	31,182	1248	41.9	1312	512.0	0.686	39.03
22.2	**1446**	**1238**	**10.7**	31,546	1518	35.4	1284	526.2	0.705	40.97
19.1	**1645**	**1195**	**10.3**	32,138	1726	27.7	1240	467.6	0.627	37.72
15.9	**1809**	**1136**	**9.8**	33,231	1899	20.1	1178	373.7	0.501	31.71
12.7	**1946**	**1067**	**9.1**	34,301	2043	13.3	1107	266.1	0.357	24.04
9.5	**2078**	**1001**	**8.5**	35,761	2181	7.8	1038	165.9	0.222	15.98
6.4	**2219**	**943**	**8.0**	37,127	2328	3.7	978	84.5	0.113	8.64
0.0	**2508**	**901**	**7.7**	38,469	2633	0.0	934	0.0	0.000	0.00
	POLYNOMIAL PEAK AIRWATTS:				**524.70**					

ORIFICE (mm)	SUCTION (kPa)	INPUT WATTS	AMPS	RPM'S	CORR. SUCTION (kPa)	AIR FLOW (cu m/h)	CORR. INPUT WATTS	AIR WATTS	H.P.	OVERALL EFF.(%)
50.8	**1.513**	**1279**	**11.0**	**31,027**	1.59	222.50	1326	98.0	0.131	7.39
38.1	**4.173**	**1284**	**11.1**	**30,789**	4.38	204.15	1332	248.0	0.332	18.62
31.8	**7.165**	**1288**	**11.1**	**30,864**	7.52	185.75	1336	387.3	0.519	29.00
25.4	**11.663**	**1265**	**10.9**	**31,182**	12.24	150.83	1312	512.0	0.686	39.03
22.2	**14.183**	**1238**	**10.7**	**31,546**	14.89	127.48	1284	526.2	0.705	40.97
19.1	**16.129**	**1195**	**10.3**	**32,138**	16.93	99.61	1240	467.6	0.627	37.72
15.9	**17.742**	**1136**	**9.8**	**33,231**	18.62	72.37	1178	373.7	0.501	31.71
12.7	**19.085**	**1067**	**9.1**	**34,301**	20.03	47.90	1107	266.1	0.357	24.04
9.5	**20.381**	**1001**	**8.5**	**35,761**	21.39	27.97	1038	165.9	0.222	15.98
6.4	**21.755**	**943**	**8.0**	**37,127**	22.83	13.35	978	84.5	0.113	8.64
0.0	**24.597**	**901**	**7.7**	**38,469**	25.82	0.00	934	0.0	0.000	0.00
	POLYNOMIAL PEAK AIRWATTS:				**524.70**					

Standard performance data is typical for a motor from a large production quantity. An individual motor's performance will vary due to normal manufacturing variations. Test standards @ 120 volts, corrected to standard atmospheric conditions: Minimum sealed vacuum = 93.28 inH20, 2369 mmH20 or 23.23 Pa, Maximum open watts = 1499 watts.

NOTES

PREMIER TOUCHLESS DRYING SYSTEMS
2210 Heldt St. - Merrill, WI 54452
Telephone (715) 539-3100 Toll Free 866-539-3100
Fax (715) 539-8009 www.PremierCompaniesUSA.com

PREMIER VACUUM EQUIPMENT LIMITED WARRANTY

Product Warranty

Subject to the terms and conditions of this Limited Warranty, Premier Touchless Drying Systems, ("P.T.D.S.") warrants to the original purchaser at first installation ("Original Purchaser") all new equipment furnished by P.T.D.S. will be free from defects in materials and workmanship for a period of one (1) year from the Commencement Date when used for its intended purpose under normal use and conditions, and so long as it is properly maintained, in accordance with the product handbook which accompanies the equipment. P.T.D.S. stainless steel vacuum tanks are warranted for ten (10) years against rust-out. Upon receiving proper notification as required herein of any failure directly resulting from defective materials or workmanship, P.T.D.S., in its sole discretion, will either Repair or replace the defective equipment. P.T.D.S. is not responsible for any costs of labor associated with the removal, shipment, or reinstallation of defective, damaged, repaired or replacement parts or equipment. Components furnished by P.T.D.S. which are manufactured or fabricated by other companies and incorporated into the P.T.D.S. car wash system are covered under this Warranty so long as the warranty conditions provided by that manufacturer are performed by the Original Purchaser.

Commencement Date

The one (1) year warranty period hereunder shall commence and be validated on (i) the first day the warranted equipment is placed in service; or (ii) sixty (60) days following the date of P.T.D.S.'s shipping date of the warranted equipment, whichever occurs first.

Limitations and Exclusions

THE EXPRESS WARRANTIES SET FORTH IN THIS LIMITED PRODUCT WARRANTY ARE THE SOLE AND EXCLUSIVE REMEDIES AVAILABLE TO THE ORIGINAL PURCHASER OF THE EQUIPMENT. THE EXPRESS WARRANTIES MADE HEREUNDER ARE MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, (TO THE EXTENT PERMITTED BY APPLICABLE LAW WITHOUT LIMITATION) (i) IMPLIED WARRANTIES OF MERCHANTABILITY; OR (ii) FITNESS FOR A PARTICULAR PURPOSE; OR (iii) OTHER WARRANTIES ARISING UNDER THE UNIFORM COMMERCIAL CODE OR BY OPERATION OF OTHER LAW.

P.T.D.S, its Distributors, and its suppliers shall in no event be liable to the Original Purchaser for any personal injuries, property damage, consequential, incidental, or punitive damages arising out of this contract or any breach thereof, or any defect in or failure of, or malfunction of the equipment, whether or not based upon loss of revenue, lost profits, lost good will, work stoppage, impairment of other goods, increased expenses of operation, cost of purchase of replacement parts, or claims of the Original Purchaser or customers of the Original Purchaser for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, products liability, strict liability, or otherwise.

This Limited Warranty will be voided and shall not cover or apply to equipment damaged by (i) accidents, vandalism, improper operation, operation not in accordance with P.T.D.S. Written instructions, operators manuals, or other product literature provided to the Original Purchaser regarding the equipment, and/or operation exceeding the design capacities of the equipment, (ii) purchaser's unapproved (in advance, in writing) modification, repair or alteration of any part, component and/or assembly used in the equipment, (iii) installation and setup inconsistent with the Manual and Start-Up Checklist provided with equipment, (iv) failure to perform P.T.D.S.'s recommended maintenance in accordance with P.T.D.S. recommended schedules provided with the equipment, (v) normal wear and tear to consumable component parts (including, but not limited to, motors, bags, hoses, electrical cables, lights, timers, etc.), (vi) inadequate or defective wiring, improper voltage, improper connections or electrical service, or where the installation does not conform to the applicable building, or electrical codes, laws, ordinances, or regulations, (vii) acts of God.

Damage caused to P.T.D.S. Equipment during shipment or installation is not covered under the terms of this Limited Warranty. This Limited Warranty does not cover damage to the external finish of the equipment that occurs during shipment, installation or use.

This Limited Warranty is subject to applicable laws and regulations. Some states in the United States of America and some Canadian provinces do not permit limitation of implied warranties, exclusion of incidental or consequential damages, and may/or may not require certain additional warranties be extended to purchasers. This warranty establishes certain legal rights, and other legal rights may be available to the Original Purchaser. These additional legal rights vary from state to state or province to province.

Required Notification/Claim Procedure

To make a claim under this Limited Warranty, the Original Purchaser must have filled out and submitted the Start Up Check List found in the manual. The Original Purchaser must notify P.T.D.S. 'S authorized Distributor within one (1) year following the Commencement Date and not more than ten (10) calendar days following the Original Purchaser's first learning of the defect believed to be covered by this Limited Warranty. Upon request by P.T.D.S. or its authorized Distributor, purchaser shall promptly return to P.T.D.S. any allegedly defective part of the equipment, freight prepaid and in accord with P.T.D.S.'s then-current "Returned Goods Authorization." All defective products and/or parts must be returned to P.T.D.S. at the original point of shipment along with a letter stating the model number, serial number, if any, the date of purchase of the item which is claimed to be defective and a brief description of the problems encountered.

Non-Transferability and Amendment

This Limited Warranty may not be transferred or assigned and only applies to, and is for the benefit of, the Original Purchaser at the first installation of new equipment. No amendment, modification, extension, renewal, or other change to the terms of this Limited Warranty may be made or shall bind D&S, or it's authorized Distributor, unless done in writing and signed by a duly authorized officer of P.T.D.S.