



# Vending Unit Installation Manual



AN O'HANRAHAN COLEMAN COMPANY

5842 W 34th St • Houston, TX 77092

1.800.999.9878 1.713.683.9878

[www.colemanhanna.com](http://www.colemanhanna.com)



Find us on Facebook:  
/ColemanHannaCarwash



## Electronic Vending Island Installation and Turn On

### Materials:

- Stainless steel electronic vending base with vendor meter assembly.
- 3-conductor cable (18 – 22 AWG) stranded unshielded 30°C
- 2-conductor cable (22 AWG) stranded w/shielded ground 300 V 30°C [ If you are using a Swipe N Clean system].
- 24 VAC power source, usually provided by the Super Saver Control Transformer.
- 3 six-fork terminal crimp leads

### Functional Overview:

During construction, ensure that provisions are made to bring 24 VAC to the Input connection. It is located on the leftmost terminal strip, housed on the back wall within the vendor meter hull. [ Labeled 24 Volts AC ONLY ]

⚡ **NOTE:** If you have a Swipe N Clean system, ensure the connection for the 2 – conductor cable w/shielded ground between the vendor meter hull and the Swipe N Clean cabinet is completed.

Be sure to fuse the hot leg of the 24 VAC input power between the source and the terminal strip with a 5 ampere, 125V fuse.

The JCC company typically crimps the leads of stranded cables with fork connectors to increase the integrity of the connection over time. This procedure is recommended, but not required.

Connect the leads from the 24 VAC source to the three leads on the terminal strip located on the leftmost back wall of the vendor meter hull as labeled.

⚡ **NOTE:** If you have a Swipe N Clean system, run the 2 – conductor cable w/shielded ground between the vendor meter hull and the Swipe N Clean cabinet. Connect the vendor meter hull to the leftmost terminal strip on the connections labeled [ COMMUNICATION CABLE ONLY ] and the Swipe N Clean end to the 1035 interface board using a three position phoenix connector provided.

## Vendor Installation:

Each vendor is mounted on the stainless steel vending island frame with self-tapping stainless steel screws in designated locations as marked from the factory. The order of vendor installation for individual products is determined by their rotation on the face of the meter door. The rotation starts from the 12:00 O'clock position of the keypad (the number 2 key) and proceeds clockwise around the outside of the keypad through ten positions. Count clockwise to the number one key, which will be the tenth position.

1. Vending islands that are winged the first vendor is to the far left of the vendor meter assembly and continues in order from left to right on the island. See the diagrams for the keypad numbers which correspond to each assigned vendor. **(See Figure 1 and Keypad position on Figure.2)**

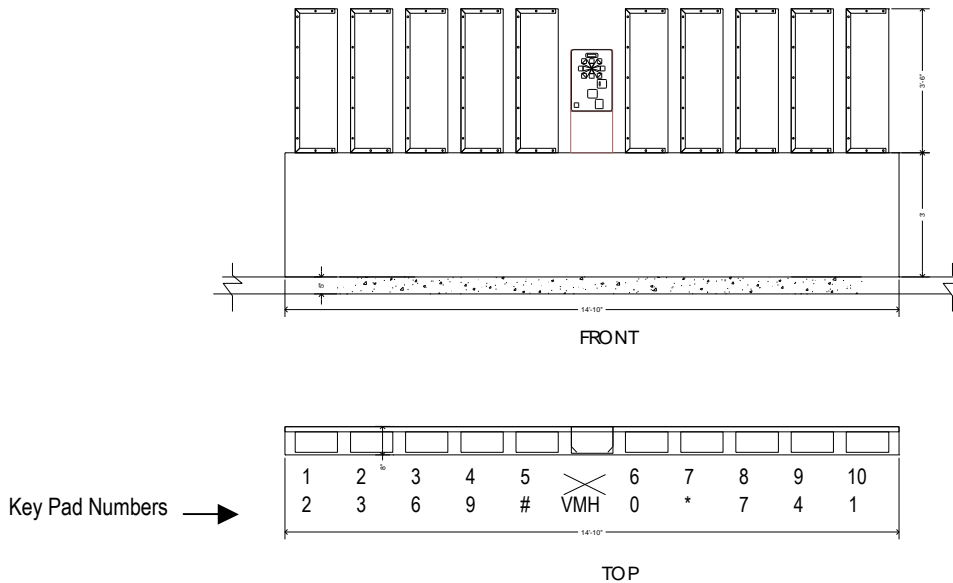


Figure 1

**NOTE:** Starting at the number 2 key, count counter-clockwise around the outer numbers and characters on the keypad to access vendors 1 through 10. (\*\*Islands with less than ten products will have jumpers connected between keys.)



Figure 2

- Vending islands that are perpendicular and have their vendors back-to-back start their numbering at the leftmost vendor nearest vendor meter and continues in order to the last vendor on the left side. The next vendor starts again in the front on the right side and continues to the right rear. **See Figure 3.**

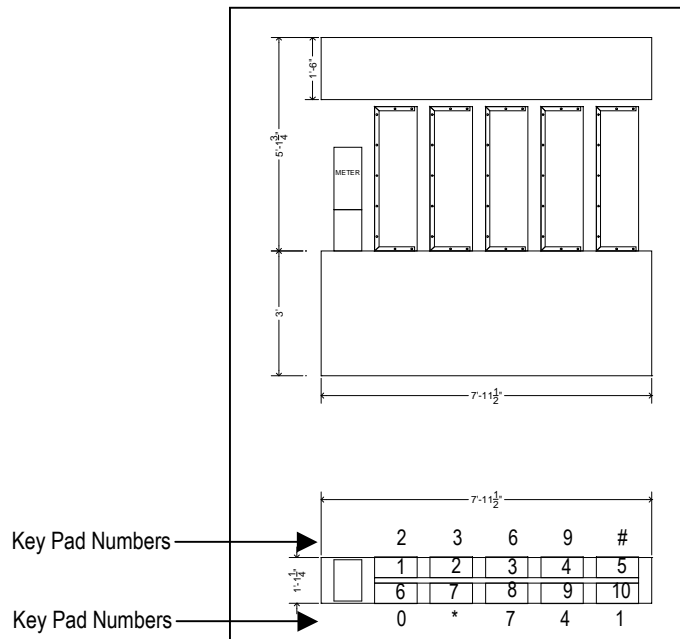


Figure 3

- Vending islands that are essentially round in construction; i.e., octagons and hexagons, start their numbering at the first vendor to the right of the vendor meter and continue counter-clockwise around the vendor. **See Figure 4. [The maximum number of vendors any vendor meter can accommodate is ten; islands with more than ten positions require two or more vendor meters.]**

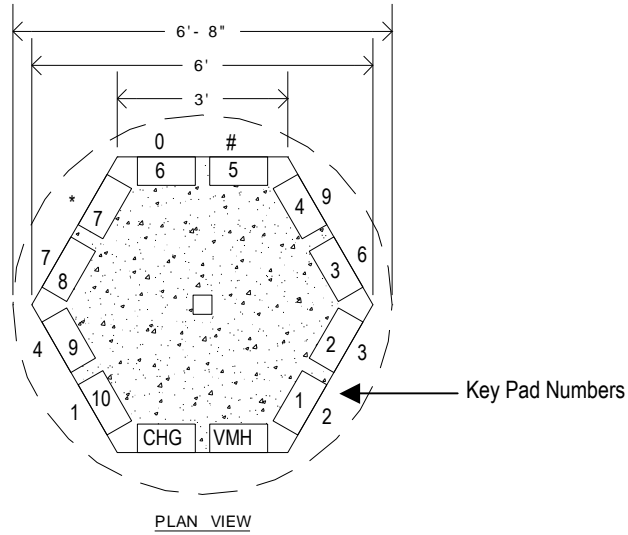
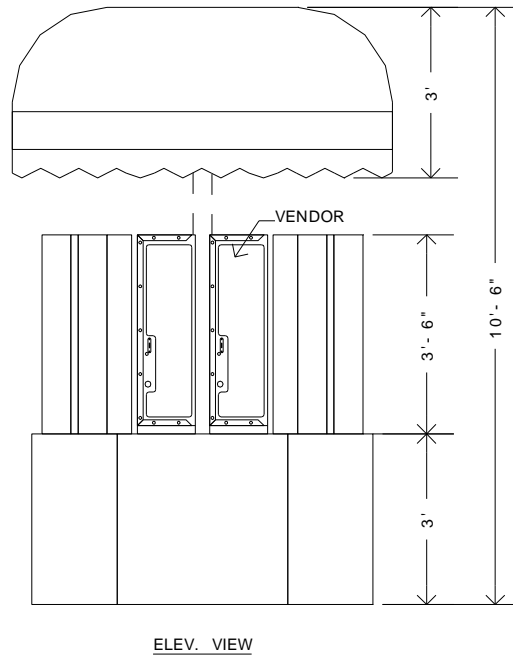


Figure 4



Programming Timers and Vendors

- Islands with less than ten positions will have multiple keys jumpered together to fill out the design of the meter decal. These jumpers are established at the wiring level of the meter hull and will vary according to each island layout.

Each vend position should come wired, numbered, and labeled with the appropriated product to be placed there.

Product pricing is preset at the factory according to the customers original order, but prices are always re-programmable whenever the decision to do so is made. Programming instructions are available by request and can be found in the latest version of the Swipe N Clean manual.

**Vendor Pricing Program (See Figure 5)**

Remove the cover from the 1037 PBC Board. Located on the lower middle of the control board is a small white push-button switch. Press and hold the switch until the light above keypad button [2] is on. The price will now display on the timer. Press the keypad button [8] to increase the price and the keypad button [0] to decrease the price for vendor 1. Press the keypad button [5] to advance to vendor 2. Continue around the keypad until all prices are set. Return to the button [2] keypad position and press [#] to return to normal mode.

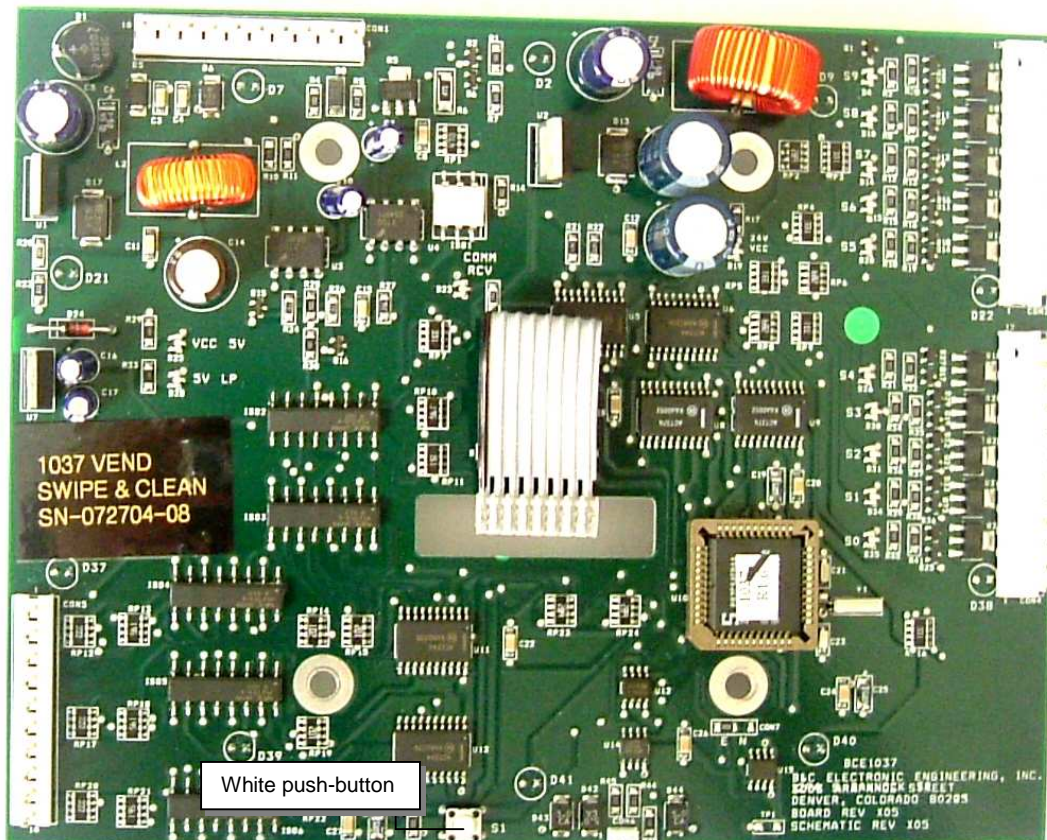
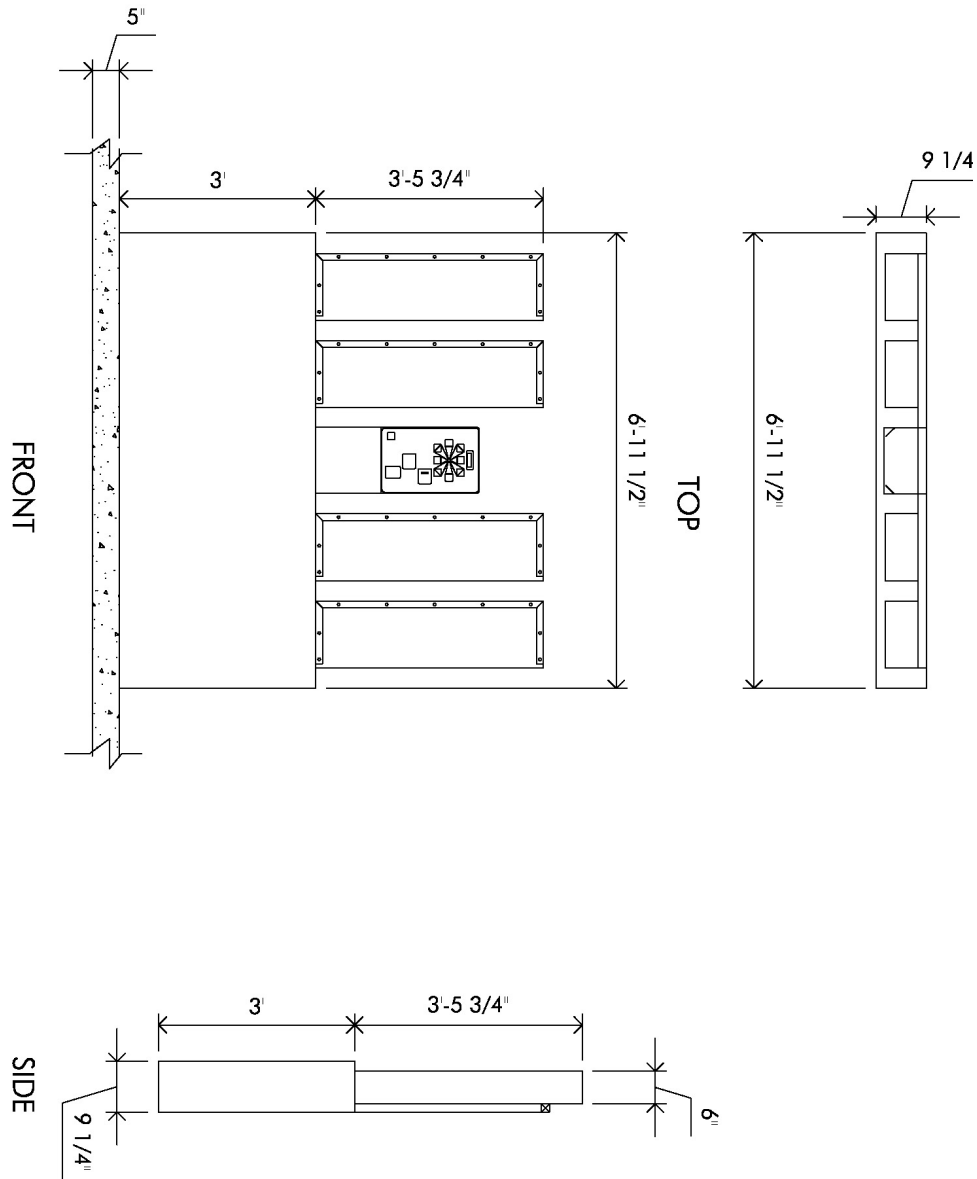


Figure 5

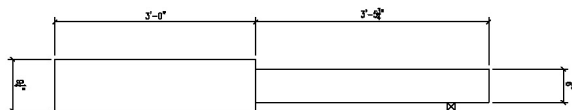
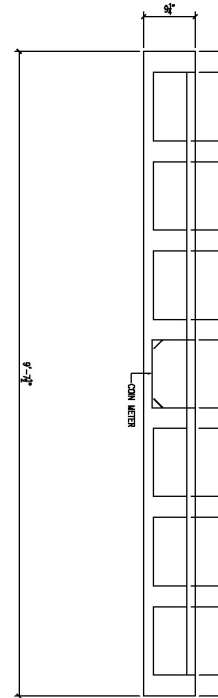
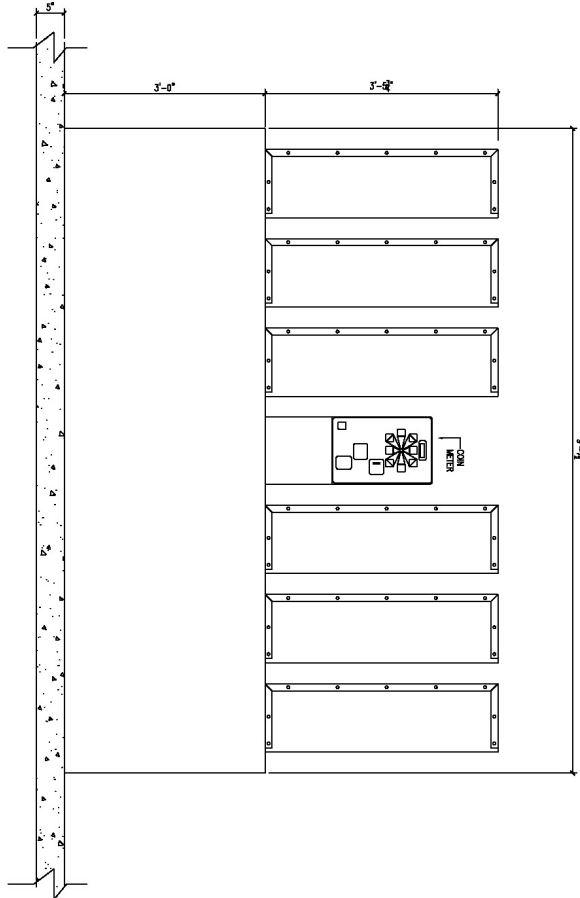


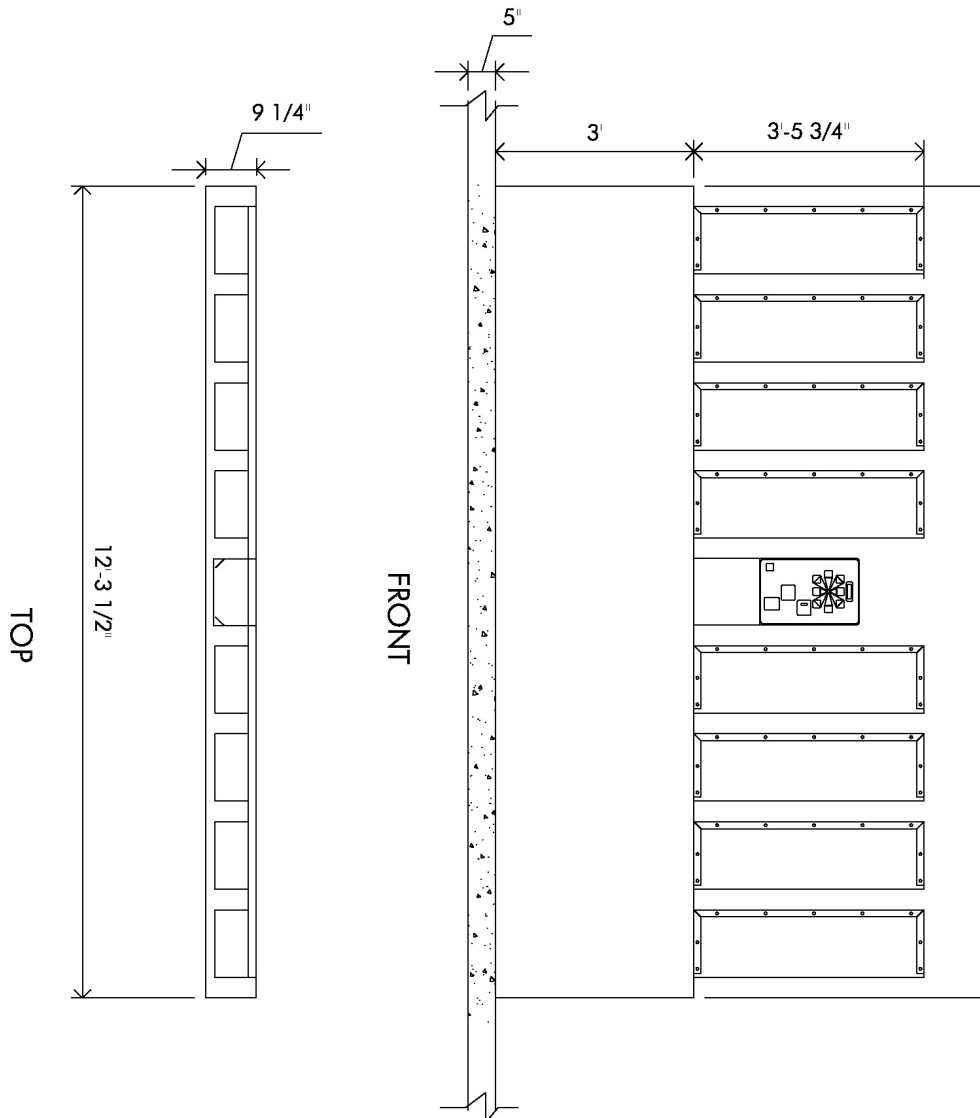
## Vendor Troubleshooting

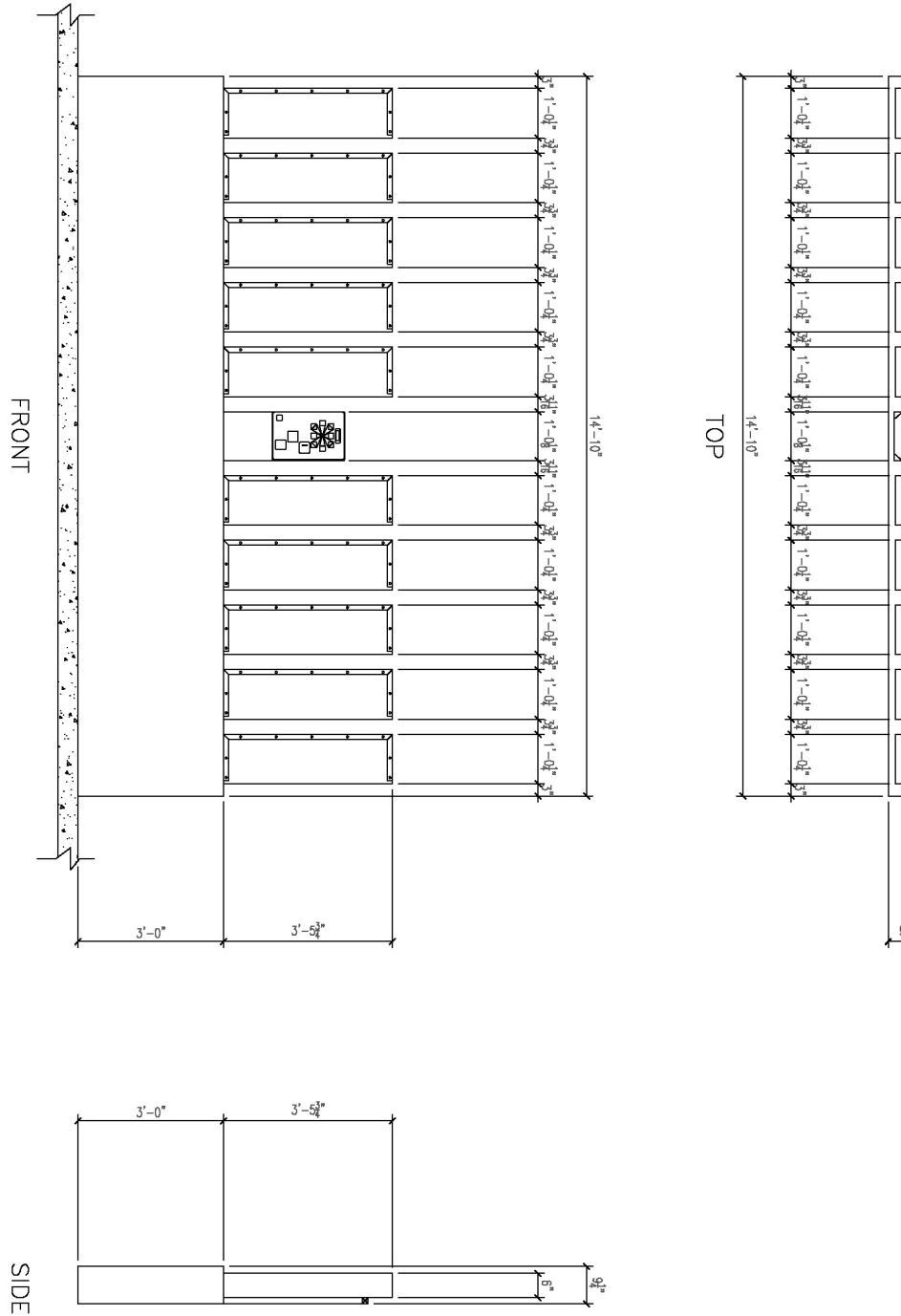
Symptom	Possible Solutions
Product is not vending after the push-button has been pressed and the motor engages to release the shelf tooth.	<ul style="list-style-type: none"><li>– Check to see if the cam motor assembly is connected too tightly to the drop down shelf assembly. (<i>Usually this problem is evidenced by the third or fourth items not vending, or taking two attempts to release the shelf tooth.</i>)</li><li>– Do you have 24VDC between the red and blue wires on pins 12 of cons 1 and 2 on the 1037 vendor board?</li><li>– When you jumper the brown and green pairs on the center (TS) terminal strip, do you get the cam motor to engage?</li><li>– Does your out-of-service indicator blink on any product before depositing money or entering a code?</li></ul>
The timer accumulates money on the LED read-out.	<ul style="list-style-type: none"><li>– Remove cover from PBC board</li><li>– Unplug the timer</li><li>– Unplug the PBC board power cable</li><li>– Plug timer back in (count to 10 using 1001, 1002, 1003, etc.)</li><li>– Plug power cable back into the PBC board</li><li>– Replace cover on the PBC board</li></ul>











## Programming The 1034S V7.34 Timer

**NOTE:** When in program mode, the SET button will allow you to toggle through the options for the specific step. Pressing MODE will enter your selection and take you to the next step.



**1034S Timer**

### 1.1 Entering Program Mode:

1.1.1 Hold **MODE** (est. 5 sec) or until display no longer scrolls.

- If this option has no response, turn timer off and try again.

### 1.2 Function

1.2.1 Enter the function you are using.

- Example: **BAY / VAC / VEND / FVAC / SVAC / AUTO**

### 1.3. Unit number: \*

1.3.1 This step is to determine which bay/vac/vend this unit is in

- Example: \*4 will indicate that this unit is installed in bay number 4

### 1.4. Nationality

1.4.1 **DOM** for domestic use, **AUS** for Australia, **INTR** for International

### 1.5 Swipe-N-Clean

1.5.1 This step sets the timer for use with a vendor. If NOT using for a vendor, proceed to step 1.6.

1.5.2 **SNCY** for Swipe-N-Clean sites and **SNCN** for non Swipe-N-Clean sites



**1.6 Tokens: T**

- 1.6.1 This option is ONLY used when the location has DUAL coin acceptors. If NOT using tokens, go to step 1.7.
- 1.6.2 Set the value of one token equal to the number of quarters. If NOT using tokens, go to step 1.7.
- 1.6.3 **T 01 – T 20** maximum value of 1 token= 20 quarters =\$5.00

**1.7 Money: A**

- 1.7.1 This step should be set to how much it costs to start the primary service.
- 1.7.2 Minimum value is **A 0.25**, Maximum value is **A 9.75**.

**1.8 Time: B**

- 1.8.1 This step sets the amount of wash time for each quarter deposited.
  - Example: \$1.50 for **B4: 30**
- 1.8.2 **SET** in this step will go from B **4:00** to B **4:30** to B **4:00**

**1.9 Bonus: C**

- 1.9.1 This step sets the amount of wash time for each quarter deposited.
  - Example: deposit \$1.50 for 4:30 min bonus time = **C 0:45**
- 1.9.2 **SET** in this step will go from B **4:00** to B **4:30** to B **4:00**
- 1.9.3 **If programming a BAY/VAC only, it will take you to step 15.**

**1.10 Switching**

- 1.10.1 The next four steps only apply to combination vacuum units - **FVAC/SVAC**. If not using these units, proceed to step 1.15.
- 1.10.2 **NOSW** for no switching.
- 1.10.3 **SW** is used for switching from shampoo/fragrance to vacuum and vice-versa. It recalculates the paid time at the different rates.

**1.11 Switch Time: S**

- 1.11.1 This option gives the customer an amount of time required before switching from vacuum to fragrance/shampoo.
  - Example: **S0: 10** ten seconds before customer can switch from vacuum to fragrance/shampoo or vice-versa.

**1.12 Money: D**

- 1.12.1 This step sets the amount of MONEY needed to start the second service; such as fragrance/shampoo.
  - Example: **D 0.75**

**1.13 Time: E**

- 1.13.1 This step sets the amount of TIME for the second service.
- 1.13.2 **SET** in this step will go from B **4:00** to B **4:30** to B **4:00**
  - Example: **E0: 45**

**1.14 Bonus Time: F**

- 1.14.1 This step sets the time for EACH additional coin.
- 1.14.2 **SET** in this step will go from B **4:00** to B **4:30** to B **4:00**
  - Example: \$0.75 for 0:45 seconds bonus time = **F 0:15**



**1.15 Horn: H**

1.15.1 This step adjusts the length of time the horn will sound when the customer has less than 1 minute remaining on the service.

- Example: **H 10** will set the horn to sound for 10 seconds when 1 minute remains.

**1.16 Blow Out Cycle: I**

1.16.1 **I 03** determines the number of blowout cycles to prevent freezing.

**1.17 Blow Out Time: J**

1.17.1 **J1:00** determines the blowout weeping time in minutes and seconds.

1.17.2 **SET** in this step will go from B **4:00** to B **4:30** to B **4:00**

**1.18 Blow Out Rest: K**

1.18.1 **K1:00** determines the rest time between blowout weeps.

1.18.2 **SET** in this step will go from B **4:00** to B **4:30** to B **4:00**

**1.19 FINISH**

**When you are finished programming the timer and leave the programming mode, the timer will display the firmware version such as *V7.34*, then the type of service the timer was programmed for such as *SVAC*, then the word *WAIT*. It will return to displaying a prompt defining initial money required to start one or two services offered.**

**Now the TIMER, PBC, and Swipe-N-Clean computer need to be programmed to all communicate with one another. Proceed to the next page and follow the instructions.**



## Programming The PBC

Each PBC needs to be addressed with its designated unit and associated timer for that unit. This is accomplished by using a pattern of LED's to set the location for the computer to identify.

**The LED's are numbered from S0 TO S9 and are associated with four other LED's: MS, AUX1, AUX2, & RCV**

1. Disconnect the only two pin connector, usually with a black and white pair of wires, from the PBC board *(See diagram of specific boards for location of pins)*
2. Disconnect power cable connector, the 10-pin connector on con1
3. On the keypad, depress and hold the **0** key.
4. While depressing the **0** key on keypad, reconnect the 10-pin connector to con1. After the horn sounds, release the **0** key on keypad and check the setting of the LED's
  - ◆ 1030 Wash Bay PBC make sure **MS** LED is the only function of the four available that is lit. *(If not, use the **8** key on the keypad to cycle the lights in the four groups until only the MS light is on)*
  - ◆ 1036 VAC PBC (the four light sequence is online under the S0-S9 sequence) Also, each type of vacuum gets a setting unique to its type i.e.; VAC: AUX2; SVAC: AUX2; FVAC: AUX1. Use the **8** key to scroll to the desired setting.
  - ◆ 1037 VENDOR PBC (MS, AUX1, AUX2 lights are not required/omitted. Vendors only need to be addressed to communicate w/timers. Go directly to Step #5 ".....and the light pattern includes S8...." **(see chart on next page)**
5. When the desired setting is reflected on the four light sequence – **Depress the **5** key on the keypad once** and the light setting should now switch to a pattern that includes S8 LED being on. This setting is the address for the PBC board associated with the unit in question. Identify the number of this unit and match the on/off setting from the BAY, VAC, or VENDOR PBC address charts for PBC. **(see chart on next page)**



VENDOR – PBC ADDRESSES										
VEND#	PBC Timer	LED	S0	S1	S2	S3	S4	S5	S6	S7
1	51	S8	✓	✓			✓	✓		
	52	S9			✓		✓	✓		
2	53	S8	✓		✓		✓	✓		
	54	S9		✓	✓		✓	✓		
3	55	S8	✓	✓	✓		✓	✓		
	56	S9				✓	✓	✓		
4	57	S8	✓			✓	✓	✓		
	58	S9		✓		✓	✓	✓		

Vendor – PBC Addresses Chart

✓ = Led on or lit

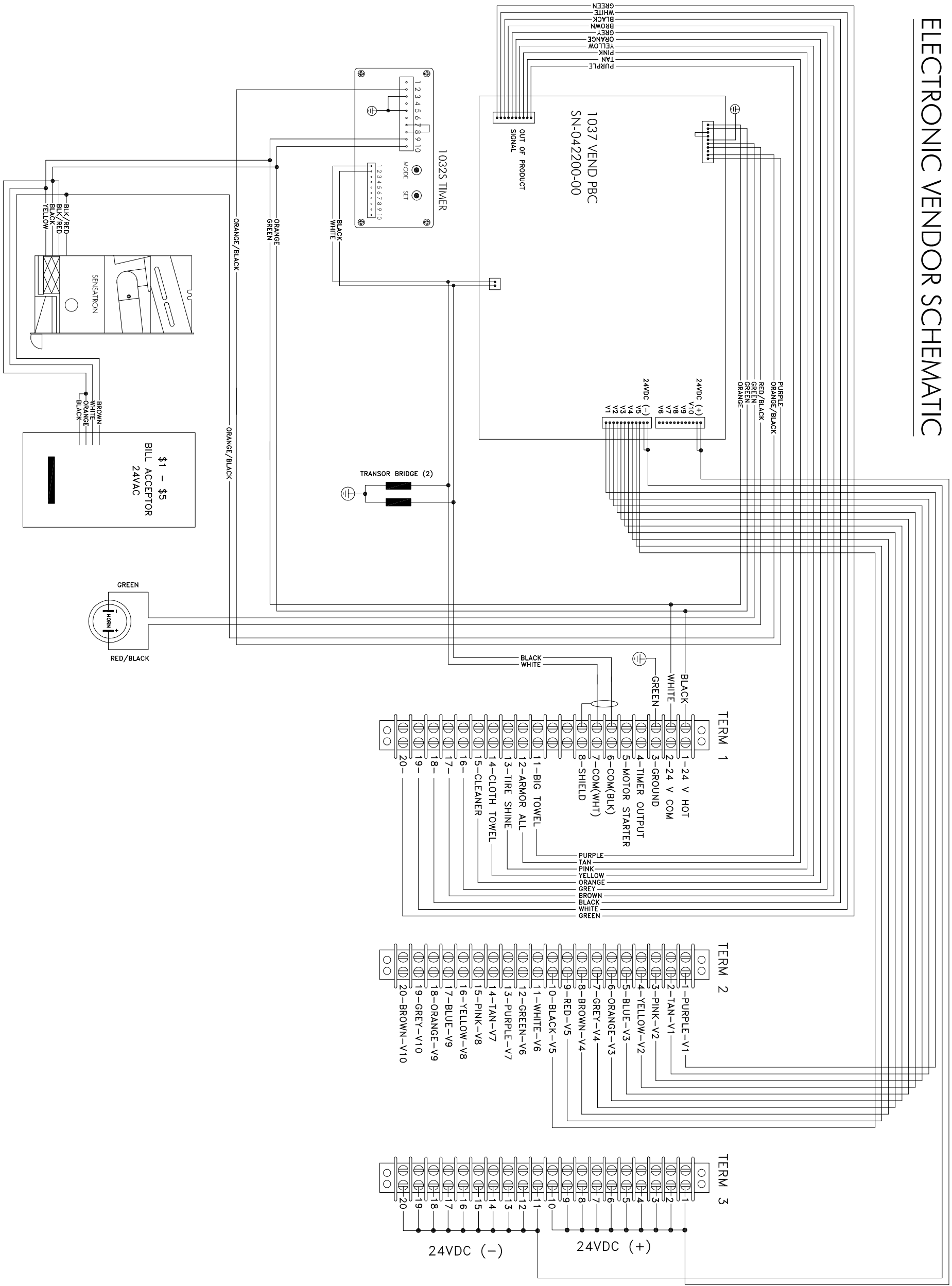
- When the desired lights have been matched, **Depress the 5 key on the keypad once again** and the light settings should now switch to include the S9 LED illuminated. This setting is the address for the timer associated with this PBC for the unit in question. Identify the number of this unit and match the on/off settings from the BAY, BAC or VENDOR Timer address chart of PBC's.) (see chart above)
- When the desired lights have been matched, **Depress the 5 key on the keypad to return to the four light sequence.** It should now match the function desired. If all settings are correct, **Depress the 1 key on the keypad** to return to normal operating mode. After approximately 10 seconds, running lights should return to PBC and the horn should sound.


### Getting the PBC and Timer to Recognize each other

- Remove the power connector, con1, and communication connector, con5 or 6, depending on the type of PBC.
- Timer: Remove power connect and communication connector.
- Replace power cable, then communication cable (observe timer display starts scrolling immediately).



# ELECTRONIC VENDOR SCHEMATIC



<b>JIM-COLEMAN-COMPANY</b> 5842 W.34TH STREET HOUSTON, TX 77092		 <b>JIM COLEMAN COMPANY</b> World Class Manufacturing in Car Wash Equipment
<b>ELECTRONIC VENDOR SCHEMATIC</b>		
OWNER:	JIM-COLEMAN-COMPANY	
SHEET NAME:	ELECTRONIC VENDOR SCHEMATIC	
SCALE:	AS SHOWN	DATE:
DRAWN BY:	H.PHAM	APPROVED BY:
DRAWING AKO:	N/A	EQUIPMENT AKO:
REVISIONS:		FILE NAME: T:\BLOCK\ELECTRICAL\VENDOR\EVD1.0
5842 WEST 34th STREET HOUSTON, TEXAS PH: 1-800-999-9878 FAX: 713-683-9624 WEBSITE: WWW.JCOLEMANCO.COM		

EVD1.0

SHEET:

ENGINEER SEAL OR APPROVAL: