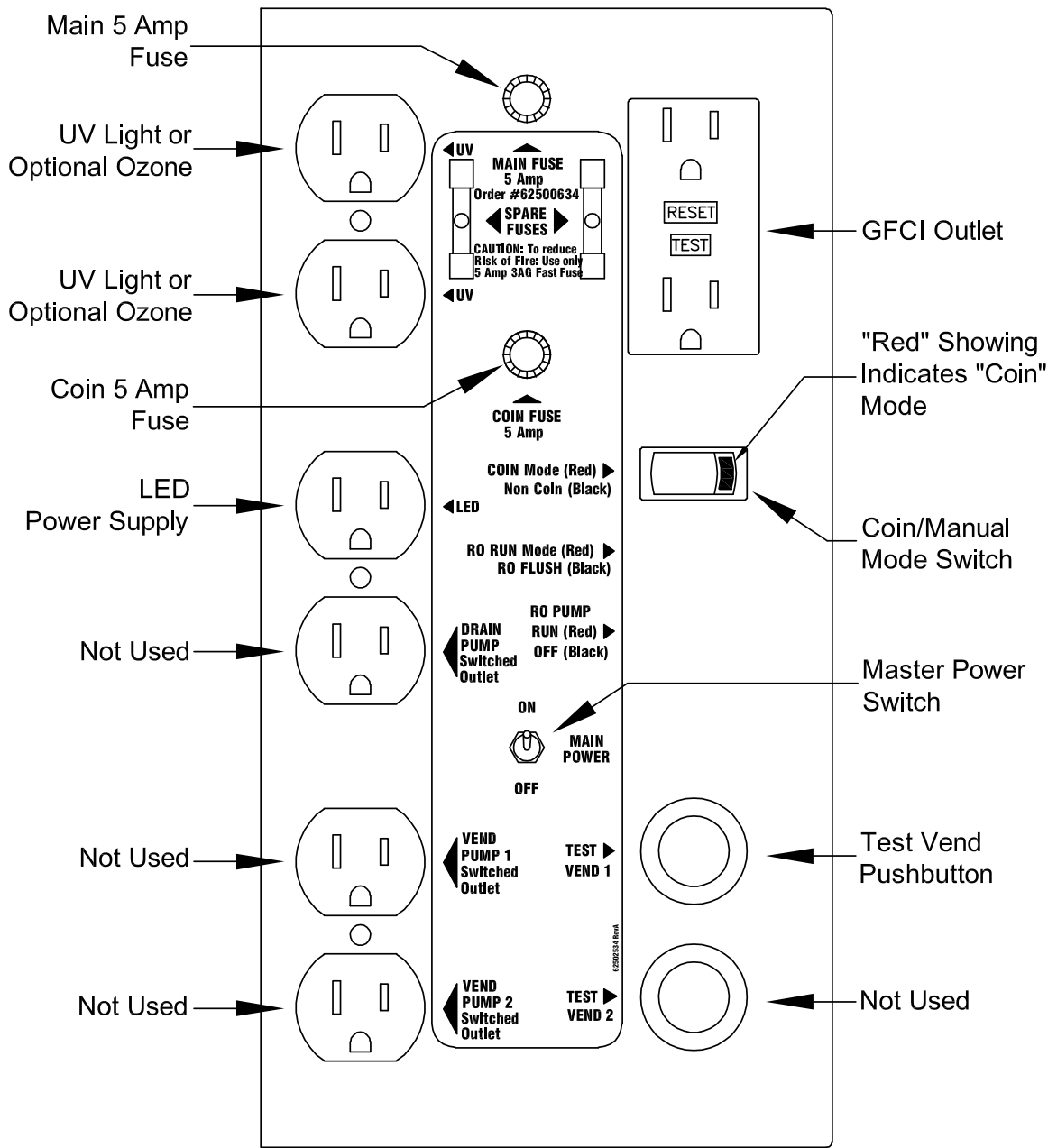


TROUBLE SHOOTING GUIDE

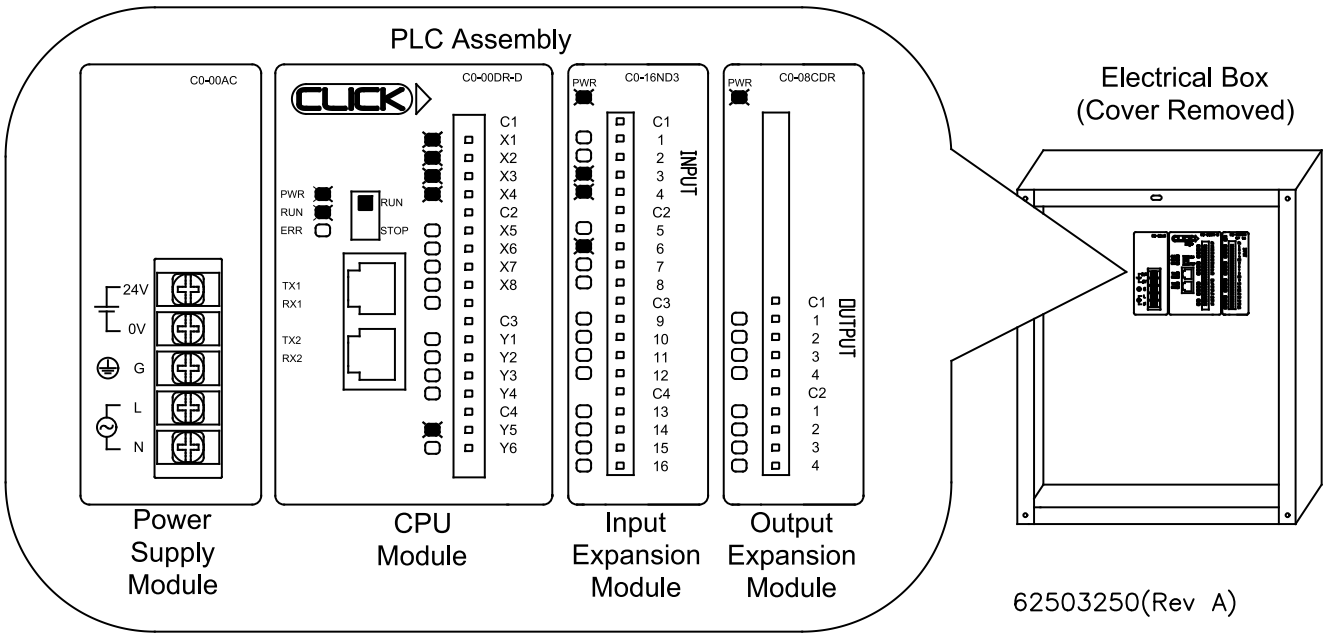
ELECTRICAL BOX INDICATOR LIGHTS

FIGURE 7



ELECTRICAL BOX INDICATOR LIGHTS

Figure 8



1. Refer to Figure ? and PLC LED indicator status tables
2. Figure 8 illustration represents normal LED status when:
 - a) Machine is not vending water
 - b) PLC is in "RUN" mode
 - c) RUN/CAL switch is in "RUN" position

CPU Module			
Indicator LED	"ON/OFF" Status (Bold Text indicates Normal Status)		Correction
PWR	ON	Power to PLC Module OK.	Normal Status
	OFF	No power to PLC Module	a) Power Switch off b) GFCI tripped c) check 120vac to Power Supply Module d) check 24vdc power to CPU module
RUN	ON	PLC Run/Stop switch is in "RUN" position	Normal Status
	OFF	PLC Run/Stop switch is in "STOP" position	Place switch in "RUN" position
ERR	ON	No faults in PLC Module	Normal Status
	OFF	Faults/Errors in PLC Module	Replace PLC module
X1	ON	PB-1 Selection Button (not pushed)	Normal Status
	OFF	PB-1 Selection Button pushed/jammed	a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch
X2	ON	PB-2 Selection Button (not pushed)	Normal Status
	OFF	PB-2 Selection Button pushed/jammed	a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch
X3	ON	PB-3 Selection Button (not pushed)	Normal Status
	OFF	PB-3 Selection Button pushed/jammed	a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch
X4	ON	PB-4 Selection Button (not pushed)	Normal Status
	OFF	PB-4 Selection Button pushed/jammed	a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch
X5	OFF	Input Not Used on Kiosk Machines	N/A
X6	OFF	Input Not Used on Kiosk Machines	N/A
X7	OFF	Input Not Used on Kiosk Machines	N/A
X8	OFF	Input Not Used on Kiosk Machines	N/A
Y1	OFF	Dispensing Solenoid Valve closed	Normal Status
	ON	Dispensing Solenoid Valve open	If valve is not open: a) check 120vac power to valve b) replace valve
Y2	OFF	Output Not Used on Kiosk Machines	N/A
Y3	OFF	Out of Service LED "OFF" (machine operating correctly)	Normal Status
	ON	UV not operating (UV bulb not illuminated)	a) replace UV lamp b) replace UV ballast/controller
		Leak Level Switch bypass jumper not connected	Check/Verify bypass jumper is in place and connected
		Stuck or Jammed selection button	check buttons and switches, replace if necessary
		Water Meter Sensor failed (Out of Service Light will "Lock On". Cycling 120v power will temporarily turn light "OFF" but will illuminate and "Lock On" after one vend cycle)	check for blinking sensor input when water is dispensing, replace sensor and/or water meter if not blinking during vend
Y4	OFF	Output Not Used on Kiosk Machines	N/A
Y5	OFF	COIN/MAN switch is in "MAN" position	Normal Status for "Non-Coin" machines
	ON	COIN/MAN switch is in "COIN" position	Normal Status for "Coin Operated" machines
		Note: Y5 LED will momentarily transition from "ON" to OFF", then back "ON" to reset Coin VMC at start of a vend in coin operated machines	
Y6	OFF	Output Not Used on Kiosk Machines	N/A

Input Expansion Module			
Indicator LED	Status (Bold Text indicates Normal Status)		Correction
PWR	ON	Power to Input Expansion Module OK.	Normal Status
	OFF	No power to Input Expansion Module	a) Power Switch off b) GFCI tripped c) check 120vac to Power Supply Module d) check 24vdc power to CPU module
1	OFF	COIN/MAN Switch is in "MAN" position	Normal position for "Non-Coin" operated machines
	ON	COIN/MAN Switch is in "COIN" position	Normal position for "Coin Operated" operated machines
2	OFF	RUN/CAL Switch is in "RUN" position	Normal operating position
	ON	RUN/CAL Switch is in "CAL" position	Only "ON" in calibrate position
3	ON	Leak Level Switch bypass jumper is connected	Normal Status
	OFF	Leak Level Switch bypass jumper is disconnected	Ensure bypass jumper is connected. The Kiosk Machine does not have a leak level switch, therefore a jumper is connected to bypass is connected to simulate the presence of a leak level switch
4	ON	UV Vend circuit, UV operating correctly	Normal Status
	OFF	UV lamp not operating	Replace UV lamp and/or ballast controller
5	N/A	Input Not Used on Kiosk Machines	N/A
6	ON	Feed Pressure Switch	Normal Status, when feed/supply water pressure is greater than 5 psi. Feed Pressure Switch MUST be "ON" to enable coin acceptance in coin operated machines
	OFF	Feed Pressure Switch	No feed/supply water pressure to machine. If feed/supply pressure is verified greater than 5 psi, replace switch
7	N/A	Input Not Used on Kiosk Machines	N/A
8	OFF	Non-Coin operated machines: Not Used	Normal Status
	OFF	Coin Operated machines: Normally "OFF", but will momentarily transition to "On" at start of a vend	Momentarily transition to "ON" resets VMC in coin operated machines
9	OFF	Water meter sensor LED may be OFF or ON	check for blinking sensor input when water is dispensing, replace sensor and/or water meter if not blinking during vend
	ON		
10	OFF	Input Not Used on Kiosk Machines	N/A
11	OFF	Pause Button, not pushed	Normal Status
	ON	Pause Button pushed	if LED is "ON" but button is not pushed, button/switch is defective, replace
12	OFF	Input Not Used On Kiosk Machines	N/A
13	OFF	Input Not Used on Kiosk Machines	N/A
14	OFF	Test Vend Button #1 (not pushed)	Normal Status
	ON	Test Vend Button #1 (pushed or jammed)	Replace switch
15	OFF	Test Vend Button #2 (not pushed)	Test Vend Button #2 is wired (connected), but not used on Kiosk machines
	ON	Test Vend Button #2 (pushed or jammed)	
16	OFF	Input Not Used on Kiosk Machines	N/A

Output Expansion Module			
Indicator LED	Status (Bold Text indicates Normal Status)		Correction
PWR	ON	Power to Output Expansion Module OK.	Normal Status
	OFF	No power to Output Expansion Module	a) POWER Switch off b) GFCI tripped c) check 120vac to Power Supply Module d) check 24vdc power to CPU module
1	OFF	Output Not Used on Kiosk Machines	N/A
2	OFF	Output Not Used on Kiosk Machines	N/A
3	OFF	Output Not Used on Kiosk Machines	N/A
4	OFF	Output Not Used on Kiosk Machines	N/A
5	OFF	Output Not Used on Kiosk Machines	N/A
6	OFF	Nozzle Shutter Solenoid not energized	Normal Status when machine is not vending water
	ON	Nozzle Shutter Solenoid	Output will come "ON" at start of a vend, and remain (ON) for 6 seconds after vend is completed
7	OFF	Output Not Used on Kiosk Machines	N/A
8	OFF	Output Not Used on Kiosk Machines	N/A

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