

TROUBLE SHOOTING GUIDE

ELECTRICAL CONTROL BOX SIDE PANEL

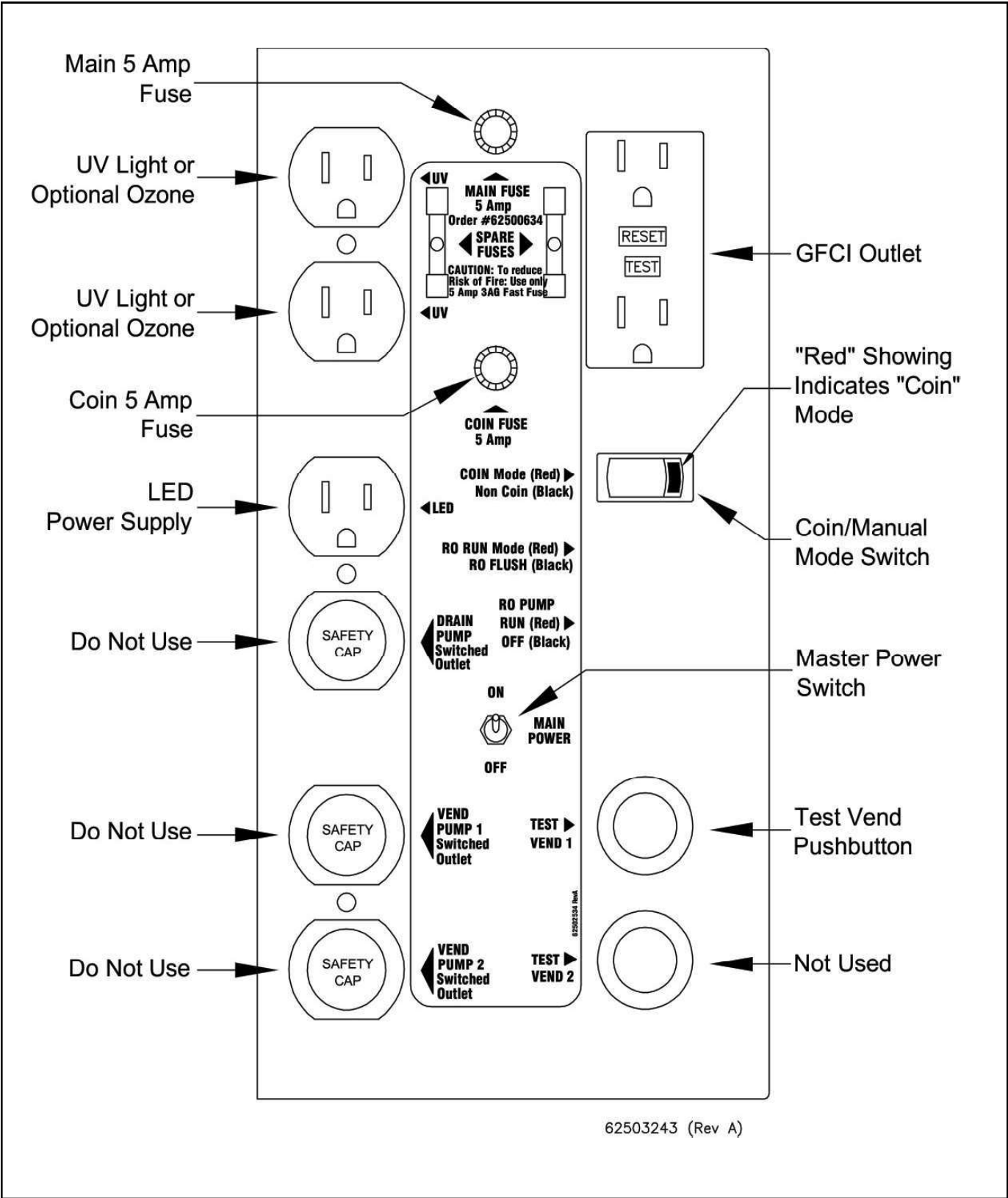


FIGURE 6

TROUBLE SHOOTING GUIDE **PLC INDICATOR LED'S**

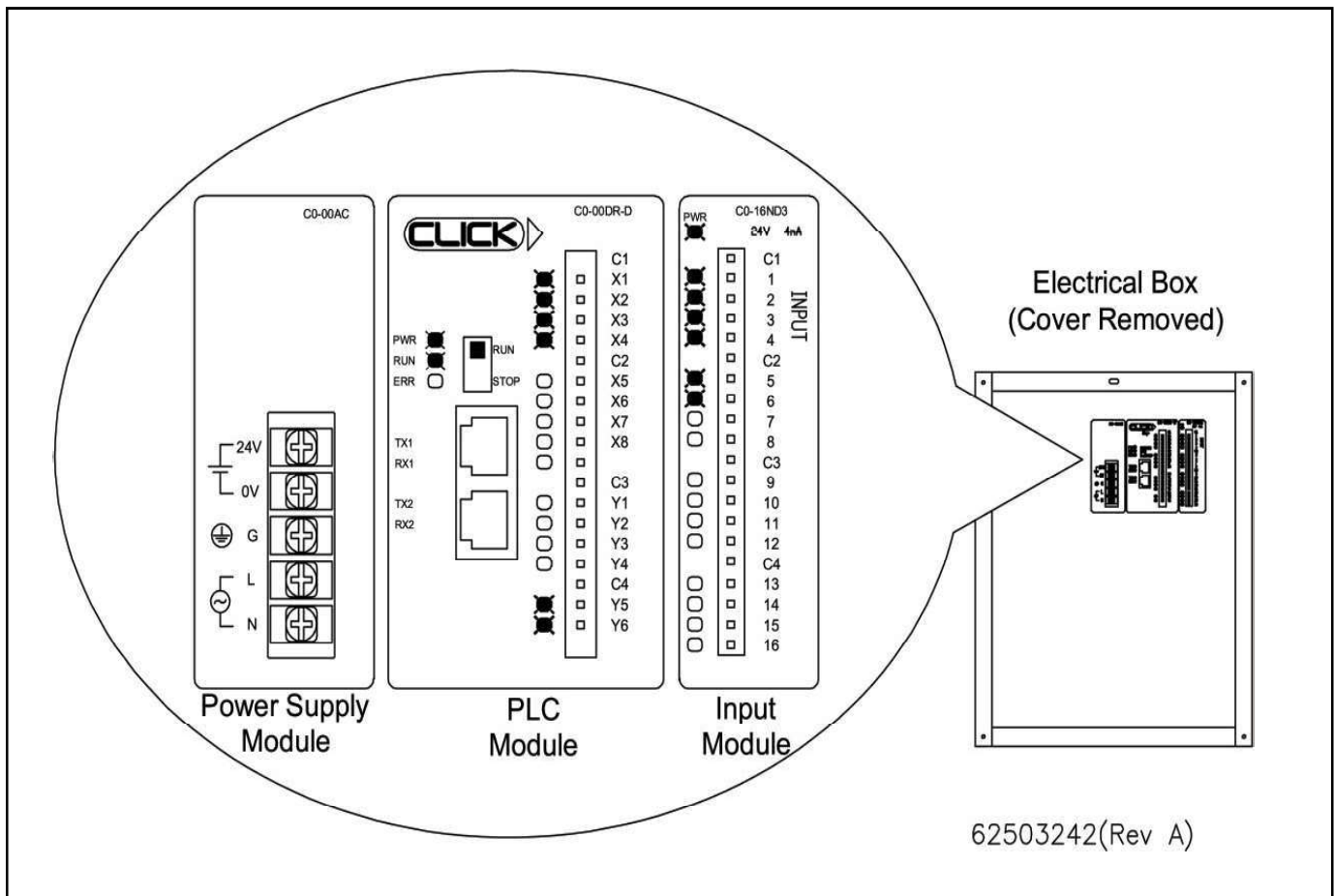


FIGURE 7

PLC LED Status

Note: Normal status of LED's when machine is, NOT vending, and in "Run" mode.

PLC Module

PWR "On"= Power to PLC Module
Run "On" PLC In "Run Mode"
ERR "Off"= No Faults In PLC

X1 "On" = PB-1 Selection Button
X2 "On" = PB-2 Selection Button
X3 "On" = PB-3 Selection Button
X4 "On" = PB-4 Selection Button

X5 "Off" = Not Used
X6 "Off" = Not Used
X7 "Off" = Not Used
X8 "Off" = Not Used

Y1 "Off" = S-2 Solenoid Valve (Left Dispenser)
Y2 "Off" = Not Used
Y3 "Off" = L-11 Sold Out Light (Left Dispenser)
Y4 "Off" = Not Used

Y5 "On" = Coin Mech Reset PB-1 Thru 4 (Coin Mode)
Y6 "Off" = Not Used

Input Module

PWR "On" = Power To Input Module

1 "On" = Coin Mode (Off = Manual Mode)
2 "On" = Run Mode (Off = Calibration Mode)
3 "On" = Leak Level Switch
4 "On" = UV #1 Lamp Out (Left Dispenser)

5 "Off" = Not Used
6 "On" = PS-3 Feed Pressure Switch (Left Dispenser)
7 "Off" = Not Used
8 "Off" = Coin Vend Authorization

9 "On or Off" = Water Meter Sensor #1 (Left Dispenser)
10 "Off" = Not Used
11 "Off" = PB-13 Pause Button (Left Dispenser)
12 "Off" = Not Used

13 "Off" = Not Used
14 "Off" = Test Vend #1 (Left Dispenser)
15 "Off" = Not Used
16 "Off" = Not Used

PLC INDICATOR LIGHTS
(Refer to Figure 7)

DESCRIPTION	"ON" INDICATES	"OFF INDICATES	PROBLEM CORRECTION
PLC Module "PWR"	No problem Power on	Problem Unit unplugged Main 5 amp Fuse blown PLC 1 amp Fuse blown Tripped Elec Box GFCI Tripped Power Cord GFCI	---- Plug in Replace fuses, check for loose wires. Reset, check for ground faults and loose wires.
PLC Module "RUN"	No problem PLC is in "RUN" Mode	Problem Faulty PLC	---- Cycle power to machine Replace PLC
PLC Module "ERR"	Problem Faulty PLC	No problem As long as PLC "RUN" LED is "ON"	Cycle power to machine Replace PLC
PLC Module "Y3"	Sold Out Condition for left dispenser. Sold Out Light (L-11), should be on	No Problem	Check UV #1, feed water pressure, supply leak level switch
Input Module "3"	No problem Sump dry	Problem Machine flooded Bad level switch	Check for leaks, fix, remove water. Replace leak level switch
Input Module "4"	No problem UV #1 Working	Problem UV #1 not working	Check UV #1 cord/plug connections, replace bulb, ballast if needed.
Input Module "6"	No problem Sufficient water supply pressure to left dispenser	Problem Insufficient water supply pressure Bad pressure switch (PS-3)	Open supply valve, fix supply line restriction, repair or replace supply pump Replace PS-3 pressure switch

PROBLEM	CAUSE	CORRECTION
1. Machine will not vend	Check PLC indicator LED's (previous page). See #6 (this page)	---- ----
2. Slow vend time	Plugged filters Solenoid valve inlet screen plugged	Replace Remove screen and clean
3. Dispenser nozzle leak or drip	Dirt or worn seal in solenoid valve	Clean or replace solenoid valve
4. Long vends (overfilling)	Defective sensor in water meter Check for rapid, steady. Continual "on-off" signal to PLC while vending Input Module #9 = left dispenser Input Module #10 = right dispenser	Replace or adjust sensor if no "on- off" is detected
5. Short vends (underfilling)	Incorrect Calibration	See Calibration Section
6. Coin mechanism won't accept money	Check PLC indicator LED's (previous page) See "Service Mode, Error Codes" in Coin Mechanism Section	---- ----
7. "Make another selection" scrolls on LCD readout	See #1 (this page)	----
8. "Sold Out" scrolls on readout	See #1 (this page)	----
9. Bill acceptor (if equipped) won't take paper money	Not enough coins in coin changer tubes. See "Service Mode, Error Codes" in Coin Mechanism Section	Fill coin tubes to at least half way mark
10. Vending machine controller will not enter service mode	Jammed selection button Defective selection button switch	Repair jammed selection button and/ or replace selection button switch
11. "System Errors" Displays when entering "Service Mode" yet unable to navigate "Menu"	Jammed selection button Defective selection button switch	Repair jammed selection button and/ or replace selection button switch
12. Main 5 amp fuse blows as soon as power is applied to unit	Shorted transient voltage suppressor, located in electrical box (refer to "Wiring Diagram, Electrical Box" for location)	Replace transient voltage suppressor and then replace fuse (refer to "Wiring Diagram, Electrical Box" for location)