



**PRO III, IV, V WIRING GUIDE**

**PRO V WIRING NOTE:** On PRO V units, the sanitizer drive board gets its power from one of the rinse power legs and a pressure switch leg or the pressure switch loop in the case of a dual internal transformer (no pressure switch). If you have the unit apart and aren't sure where to hook up for power again, do the following: With the lid up on the unit and beginning from the first wire at the board on the left, count over to the third wire (yellow), and the fifth wire (one of the secondary side legs of the rinse transformer). ONLY THESE TWO WIRES SHOULD SUPPLY POWER TO THE SANITIZER MOTOR DRIVE BOARD!!

**EXTERNAL TRANSFORMER WIRING**  
**sCONNECTIONS TO THE WIRING HARNESS -- EXTERNAL TRANSFORMER (S) HOOKUP ONLY**

PRO III, PRO IV, and PRO V: These models have the same color-coded wiring setup as in the past. The wires at the end of the 7-conductor cable coming from the board correspond as follows: Red and White are the DETERGENT power leads (24 VAC ONLY). Blue and Brown are the RINSE (AND SANITIZER) power leads (24 VAC ONLY). Green is your ground. FROM THE FACTORY THE UNIT WILL BE READY FOR CONNECTION TO THE SECONDARY SIDE OF THE TRANSFORMER (S), WITH THE FOUR POWER WIRES HAVING BEEN TWISTED TOGETHER AS FOLLOWS --

RED AND BLUE = ONE LEAD TO SECONDARY SIDE OF TRANSFORMER (24 VAC)  
WHITE AND BROWN = ONE LEAD TO SECONDARY SIDE OF TRANSFORMER (24 VAC)

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**40 VA SDT-1 TRANSFORMER ONLY**  
**RED AND WHITE = 24 VAC SECONDARY**

220 / 240 VAC	=BLACK FOR ONE LEG	208 VAC	=YELLOW FOR ONE LEG
	=BLUE FOR ONE LEG		= BLACK FOR ONE LEG
	=JOIN BROWN AND ORANGE		=JOIN BROWN AND ORANGE
120 VAC	=JOIN BLUE AND ORANGE - ONE LEG		
	=JOIN BLACK AND BROWN - ONE LEG		

\*\*\*\*INSULATE UNUSED WIRES - SDT-1 IS NOT RECOMMENDED FOR PRO V UNITS - USE SDT-5\*\*\*\*

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**150 VA SDT-5 TRANSFORMER ONLY**  
**RED AND RED = 24 VAC SECONDARY**

220-240 VAC	=BLACK FOR ONE LEG	208 VAC	=BLACK FOR ONE LEG
	=BLUE FOR ONE LEG		=YELLOW FOR ONE LEG
	=JOIN WHITE AND BROWN		=JOIN WHITE AND BROWN
120 VAC	=JOIN BLACK AND BROWN - ONE LEG		
	=JOIN BLUE AND WHITE - ONE LEG		

\*INSULATE UNUSED WIRES SDT-5 WILL RUN UP TO 3 MOTORS SIMULTANEOUSLY\*

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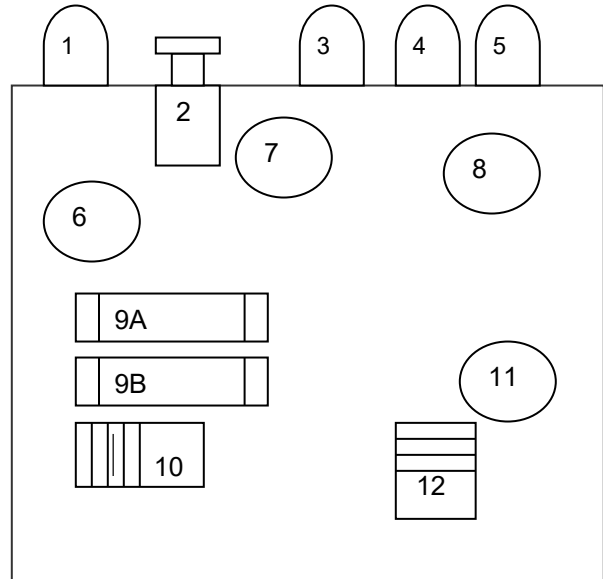
440 VAC SDT-4 TRANSFORMERS - 440 - 480 VOLTS PRIMARY - 24 VAC SECONDARY  
BLACK AND WHITE - CONNECT TO PRIMARY VOLTAGE    RED AND RED - 24VAC OUTPUT TO DISPENSER

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**WARNING:** Incorrect wiring to the dish machine, such as connecting the probe to a power source, will result in a failure of the control board and will void the factory warranty!! Any other wiring combinations other than those described here may result in damage to the control board as well as damage to the installer!! Exercise extreme caution when working with high voltages and always make sure that breakers are thrown off before attempting to do any wiring.

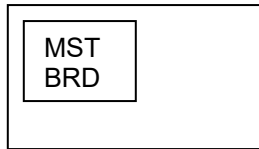
## MASTER BOARD FOR ALL PRO III. IV. AND V UNITS

1. Rinse Feed Indicator Light
2. Rinse Prime Button
3. Power Indicator Light – Power is present from the dish machine when light is lit.
4. Detergent Feed Indicator Light
5. Low Supply Light – indicates the probe is not being satisfied – out of product.
6. Rinse Speed Pot
7. Buzzer Volume Potentiometer – 0 = Quiet 100 = Loud
8. Low Product Alarm Delay Po  
0 = minimum time to alarm (approx. 20 seconds)  
100 = maximum time to alarm (approx. 6 minutes)
- 9A. Rinse Fuse (5 Amp)
- 9B. Detergent Fuse (5 Amp)
10. Power Switch Left = Off Right = On
11. Detergent Concentration Potentiometer – allows adjustment of concentration 0=Minimum 100=Maximum
12. Range Selection Switch Low = 4-25 Drops High = 10-25 Drops

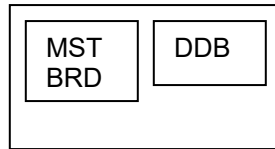


## BOARD LAYOUTS

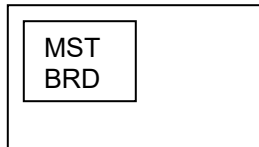
### PRO III - LID



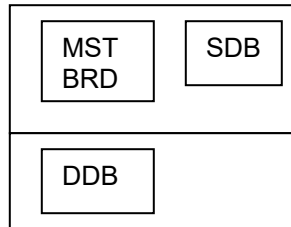
### PRO IV - LID



### PRO V DP - LID



### PRO V DL - LID



## NEW WIRING COMPONENT COLOR CODE

### RINSE SIDE OF BOARD

RED=RINSE MOTOR WIRES  
YELLOW=PRESSURE SWITCH CIRCUIT  
BLACK=RINSE POWER IN

### DETERGENT SIDE OF BOARD

BLUE=DETERGENT POWER IN  
WHITE=DETERGENT SOL POWER **OR**  
DETERGENT MOTOR BOARD  
GREEN = PROBE WIRE

DDB = Detergent motor drive board (Pro IV & Pro V DL) - THERE ARE NO ADJUSTMENTS ON THIS BOARD  
SDB = Sanitizer motor drive board (Pro V DP & DL) THE POTENTIOMETER ON THIS BOARD CONTROLS THE SANITIZER MOTOR SPEED

## INTERNAL TRANSFORMER UNIT WIRING INFORMATION

When hooking up the **high** voltage coming into the wiring block, first check the voltage with a voltmeter and use the label on the transformer cap to hook up to the correct leads. **REMEMBER: YOU WILL ALWAYS USE THE COMMON POSITION FOR ANY VOLTAGE - 240 WOULD MEAN CONNECTING ONE LEG TO THE COMMON POSITION AND ONE TO THE ONE MARKED FOR 240 VOLTS.** If you need to share a single source of voltage from the dish machine in a unit with two internal transformers and a pressure switch, use small (18 AWG minimum) jumper wires. Use the correct positions, i.e. match up the voltage positions for the second transformer with those on the first. Remember that if you purchased a unit with dual internal transformers and a pressure switch and did not use the pressure switch, these wires must be disconnected from the pressure switch and tied together to complete the circuit or the rinse pump **WILL NOT RUN**. If you do not want to cut the leads, the black switch allows for a normally closed setup. Remove the Pressure switch from its housing. Remove the red connector from the middle terminal on the micro switch and place it on the outside terminal, the one closest to the front of the unit. This will complete the circuit without having to cut the wires.