

# WARRANTIES

## SERIES JR.

Model M-125  
Model T-125  
Model M-250  
Model T-250

Internal Assembly ...	3 yrs.
External Case .....	5 yrs.

## SERIES TWO

Model M-300  
Model T-300  
Model P-300  
Model M-500  
Model T-500  
Model P-500

Internal Assembly ...	5 yrs.
External Case .....	10 yrs.

## SERIES RC

Model RC-300

## SERIES PLUS

Model DT-250

Internal Assembly ...	5 yrs.
External Case .....	10 yrs.

Internal Assembly ...	5 yrs.
External Case .....	10 yrs.

**This warranty is an "Over-The-Counter" exchange program.**  
After making a self-test on the unit, it is determined defective, send the complete unit prepaid by UPS or U.S. Mail to:

Warranty Service Department  
31260 Cedar Valley Drive  
Westlake Village, CA 91362

Be sure to include your name, phone number, and shipping address, (no P.O. Boxes please). Your replacement unit will be shipped to you by UPS within 3 days following the receipt of the defective unit.

**NOTE:** Units tested by our Warranty Service Department and found to be operating properly will be returned via UPS to the user.

Mfg. by: INTERMATIC INC.  
Spring Grove, IL 60081-9698

158LV9303

# INSTALLATION & OPERATING GUIDE

## CALIFORNIA SERIES LANDSCAPE LIGHTING TRANSFORMERS

### CALIFORNIA SERIES JR.

Model M-125  
Model T-125  
Model M-250  
Model T-250

### CALIFORNIA SERIES TWO

Model M-300  
Model T-300  
Model P-300  
Model M-500  
Model T-500  
Model P-500

### CALIFORNIA SERIES RC

Model RC-300

### CALIFORNIA SERIES PLUS

Model DT-250

# TROUBLESHOOTING

Problem	Item(s) to Check
No 12V output	<ul style="list-style-type: none"> <li>- 120 volt outlet for input (unit plugged-in)</li> <li>- 120 volt terminal for input (unit conduit mounted)</li> <li>- Transformer circuit breaker(s) (<i>see Circuit Breakers below</i>)</li> <li>- Manual ON-OFF rocker switch is in ON position (M-125, M-250)</li> <li>- Voltage output rocker switch is in either 12V or 13V position (M-250, M-300, P-300)</li> <li>- Timer ON-OFF switch is in ON position, one click counter-clockwise (all timer models)</li> </ul>
Circuit Breaker(s) (Push to reset)	<p><b>Indicators:</b></p> <ul style="list-style-type: none"> <li>- Trips <i>within seconds to a minute, check for short</i></li> <li>- Trips <i>within hours to days, check for overload</i></li> <li>- Wattage rating of transformer is exceeded</li> <li>- Wattage of left and right circuit is unbalanced (M-500, T-500, P-500)</li> </ul>
Timer doesn't turn lights on or off	<ul style="list-style-type: none"> <li>- Orange ON tripper or blue OFF tripper is omitted</li> <li>- Broken tripper pins</li> </ul>
Timer doesn't keep time properly	<ul style="list-style-type: none"> <li>- 120 volt power source is on a "switched" circuit</li> <li>- Time is not set properly</li> </ul>
Photozell doesn't turn lights on or off	<ul style="list-style-type: none"> <li>- Exposure of photozell to daylight is obstructed (P-300, P-500)</li> </ul>
Lights cycling on and off	<ul style="list-style-type: none"> <li>- Artificial light is affecting the photozell (P-300, P-500)</li> </ul>
Excessive humming or vibration	<ul style="list-style-type: none"> <li>- Inside cover plate not securely fastened</li> <li>- Wattage of left and right circuits is unbalanced (M-500, T-500, P-500)</li> <li>- Short circuit on 12 volt output cable</li> </ul>

# WIRING INSTRUCTIONS

## To Connect 12V Low Voltage Wiring

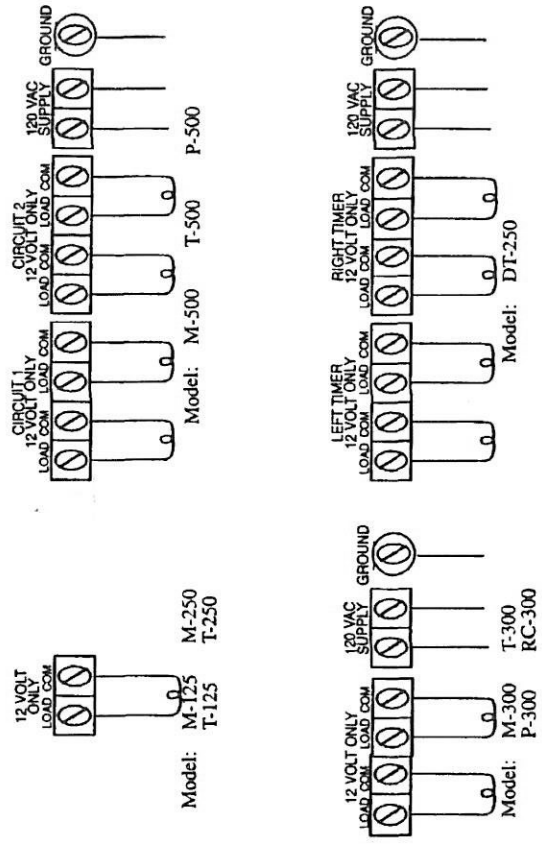
### SERIES JR Models

Remove lower face plate screw and lift plate to expose wiring terminals. Reposition face plate and replace screw after wiring.

### SERIES TWO Models SERIES PLUS Model SERIES RC Model

Remove two screws from center of the transformer, lift and remove face plate to expose wiring terminals. Replace face plate and screws after wiring.

No consumer service items behind the face plate.



# OPERATING INSTRUCTIONS

## MANUAL OPERATED MODELS

M-125 121 watts  
M-250 250 watts  
M-300 300 watts  
M-500 500 watts

### To Operate:

#### Models M-125 & M-500

1. Push two position rocker switch to "ON" position to turn on.
2. Push two position rocker switch to "OFF" position to turn off.

#### Models M-250 & M-300

1. Push three position rocker switch left to '12V output' or right to '13V output' to turn on.
2. Push three position rocker switch to center position to turn off.

## REMOTE CONTROLLED MODEL

RC-300 300 watts

### To Operate:

#### Model RC-300

1. Remove rocker switch cover (not face plate).
2. Set "red" A-P dial and "black" 1-16 dial to match settings on the controller to be used.
3. Replace rocker switch cover.

NOTE: Rocker switch may also be used as ON-OFF switch.

## TIMER OPERATED MODELS

T-125 121 watts  
T-250 250 watts  
T-300 300 watts  
T-500 500 watts

### To Operate:

#### All Models - Set Timer

1. Turn timer dial until arrow point to "Time of Day."
2. Slide "orange" tripper into spot of desired "ON" time.
3. Slide "blue" tripper into slot of desired "OFF" time.
4. Remove spare trippers.
5. To temporarily over ride timer, use "On-Off" switch on timer. Turn switch counter-clockwise, one click. Timer will return to automated on/off with the next cycle.
6. To permanently over ride timer, remove both "orange" and "blue" trippers.

#### Models T-250 & T-300 - Select Output Voltage

Push rocker switch left to '12V output' or right to '13V output' to turn on. (Not available on models T-125, T-500, or D250.)

## PHOTOCELL OPERATED MODELS

P-300 300 watts  
P-500 500 watts

### To Operate:

#### All Models - Set Timer

1. Turn timer dial until arrow point to "Time of Day."
2. Slide "orange" tripper into spot of desired "ON" time. (Note: For photocell to turn unit on at dusk, "ON" time should be set at a daylight hour.)
3. Slide "blue" tripper into slot of desired "OFF" time.
4. Remove spare trippers.
5. For total photocell operation, remove both "red" and both "blue" trippers.

#### Model P-300 - Select Output Voltage

Push rocker switch left to '12V output' or right to '13V output' to turn on. (Not available on model P-500.)

## DUAL TIMER OPERATED MODEL

DT-250 500 watts

### To Operate:

#### Model DT-250

Each timer operates 250 watt circuits independently. Follow steps 1 through 6 listed under "Timer Operated Models" for setting each timer.

# INSTALLATION INSTRUCTIONS

## All Models

- Rainproof low voltage transformers are suitable for cord connected outdoor installation of 12 volt, landscape lighting above grade, below grade, and submersible fixtures.
- Mount units not less than one foot above ground level, and at least 10 feet from any pool or spa walls.
- For cord installation, mount unit within one foot of grounded electrical outlet. Plug unit into GFCI outlet protected with a wet location while in use cover.
- Do not use with a dimmer or an extension cord.
- Any installation changes regarding number of or wattage of lamps or length of cable, contact the installer or electrician.

The sum of all the fixture wattages should not exceed the total lamp wattage of the transformer

Cable installation should be done according to the National Electric Code and Local ordinances. The main secondary wiring may be buried up to 6".

# MOUNTING INSTRUCTIONS

- Select appropriate hardware (not supplied) to secure unit to mounting surface to adequately support weight.

Model	Unit weight	mounting method
M-125, T-125, M-250, T-250 (USE OUTDOORS ONLY)	12 lbs.	Single keyhole mounting ear on top
M-300, T-300, P-300, RC-300 (INDOOR OR OUTDOOR USE PERMITTED).	17 lbs.	Single keyhole mounting ear on top - 3 inside anchor screw heads
M-500, T-500, P-500, DT-250 (INDOOR OR OUTDOOR USE PERMITTED).	19 lbs.	Single keyhole mounting ear on top - 3 inside anchor screw heads

# INSTALLATION INSTRUCTIONS

## Additional installation instructions for Models: M-300, T-300, P-300, M-500, T-500, P-500, RC300 & DT250.

For conduit mount, installation must be done by a licensed electrician per the National Electric Code (NEC NFPA/70). Conduit must be used on both the primary and the secondary sides of the transformer.

1. Remove all power to the unit during these operations.
2. Open the cover of the power pack and remove the metal deadfront by removing the two phillips head screws. Keep the deadfront and screws available.
3. Loosen the screws securing the cord set.
4. Remove the strain relief holding the cord set.
5. Cut the cord set so that 6 inches of the green cord set ground conductor remain. Strip approximately 1/2" of the lead insulation. Do not loosen the green ground screw and terminal.
6. Insert the Hole Plug in the cord set opening.
7. Now install the primary and secondary conduits with conductors into the available knockout openings provided. Make sure that the power supply conductors are attached to the terminals as shown in the wiring instructions. All conductors are to be insulated for the maximum voltage involved. Use Copper Conductors Only.
8. Reinstall the deadfront with the phillips head screws.
9. Make sure that the system is properly connected, restore power to the system and make sure there are no electrical problems. If circuit breaker opens or the supplementary protector trips, remove the power. Restore power when the fault is corrected.
10. Close the cover.