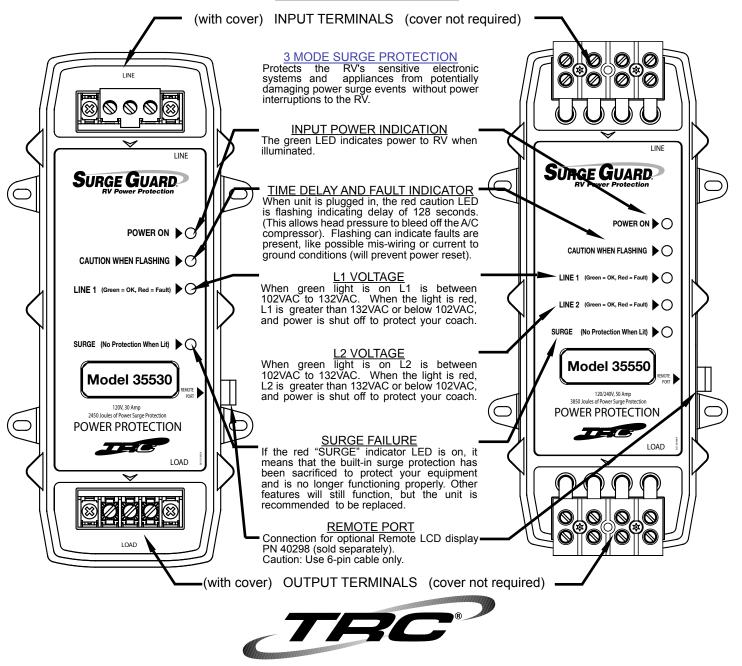


MODEL 35530 HARDWIRE MODEL 35550 HARDWIRE

#### INSTALLATION & OPERATING INSTRUCTIONS

OVER/UNDER VOLTAGE PROTECTION Should voltage drop below 102V or rise above 132V for more than 8-14 seconds, power to RV is turned off. <u>SEE TIME DELAY INDICATOR</u>

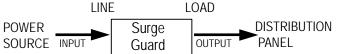


# INSTALLATION INSTRUCTIONS

# **WARNING:** This Surge Guard device must be installed by a licensed electrician or by an RV dealer.

### PROTECTING SOURCE POWER ONLY

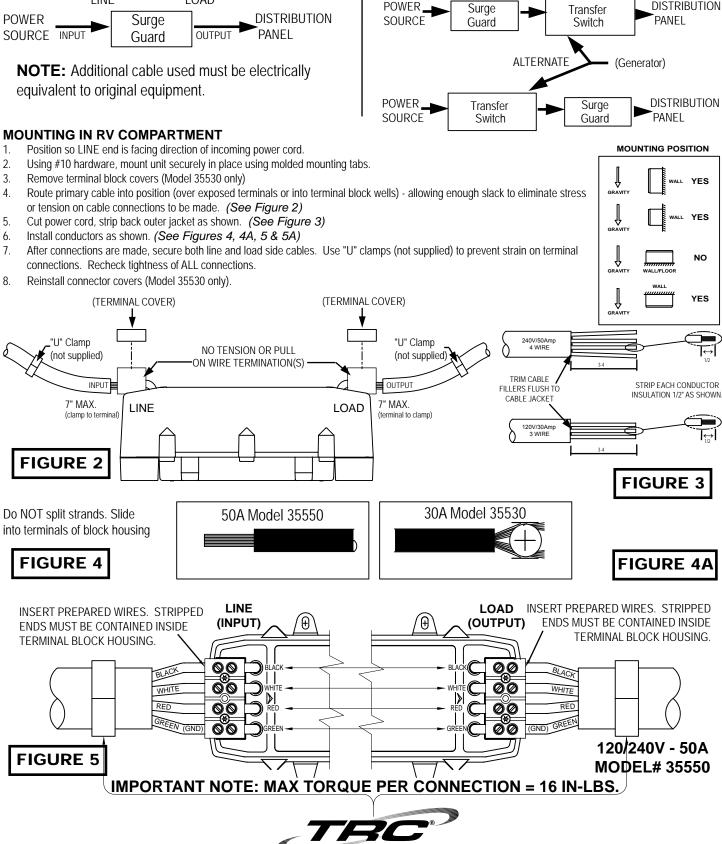
- Disconnect RV power cord from source power. 1.
- Locate the Surge Guard® in the RV's electrical compartment. Unit 2. should be located where lights are clearly visible to the user.

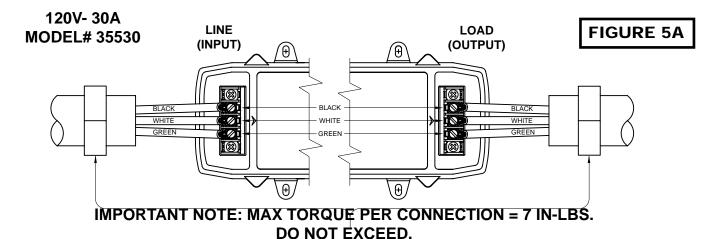




- Disconnect RV power cord from source power. 1
- Locate the Surge Guard® next to the transfer switch. Unit should be 2. located where lights are clearly visible to the user.

DISTRIBUTION





### **TECHNICAL SPECIFICATIONS**

FEATURES	MODEL 35530	MODEL 35550
Operating Current	30 Amps	50 Amps
Operating Voltage	120 Volts	120/240 Volts
Maximum Watts	3600 Watts	12000 Watts
3 Mode Surge Protection	Yes, L-N, L-G,N-G	Yes, L-N, L-N, L-G, N-G, L-L
Energy Dissipation	2450 Joules	3850 Joules
Maximum Spike Current	6500A per MOV	6500A per MOV
Over/Under Voltage Protection	Yes	Yes
Voltage Range	132/102V	132/102V
Trip Time	8-10 seconds	8-10 seconds
High Neutral Current Trip	N/A	130%
Time Delay for A/C	128 seconds	128 seconds
Reverse Polarity Protection	Yes	Yes
Voltage On Ground Check	Yes	Yes
Power Indicator	Yes (1 line light)	Yes (2 line lights)
Warranty	1 year	1 year
Corrosion Resistant	Yes	Yes
Easy Installation	Yes	Yes
Industrial Contactor	Yes	Yes

# **OPERATING INSTRUCTIONS**

- 1. Plug the RV power cord into an approved RV receptacle.
- 2. Verify the delay indicator is flashing, and the line lights are green.
- Once caution light stops flashing (this takes 128 seconds), verify RV power is on.

**NOTE: USING WITH TRC VOLTAGE REGULATOR** If using Surge Guard with TRC Voltage Regulator (10175 or 10176) the voltage regulator should be positioned between the power pedestal (shore power) and the Surge Guard.

**WARNING:** It is extremely important that the terminal covers (Model 35530 only) are in place prior to applying power to the RV. Failure to comply with these instructions may result in a shock hazard.

# **INDICATOR LIGHT CHART**

#### MODEL 35530

MODEL 33330					
CONDITION	INDICATOR L	RV POWER			
DESCRIPTION	LINE 1	DELAY/CAUTION	RVPOWER		
Normal Conditions	green	off	on		
Startup Condition	on	flashing	off		
Reverse Polarity	on	flashing	off		
Open Ground	on	flashing	off		
Voltage on Ground	on	flashing	off		
Over or Under Voltage	red	flashing	off		
No Power at L1	off	off	off		

MODEL 35550					
CONDITION	INDICATOR LIGHT STATUS			RV	
DESCRIPTION	LINE 1	LINE 2	DELAY/CAUTION	POWER	
Normal Conditions	green	green	off	on	
Startup Condition	on	on	flashing	off	
Reverse Polarity	on	on	flashing	off	
Open Ground	on	on	flashing	off	
Voltage on Ground	on	on	flashing	off	
Over or Under Voltage	red	red	flashing	off	
Power to Line 1 Only	on	red	flashing	off	
Power to Line 2 Only	off	off	off	off	
No Power at Input	off	off	off	off	

## TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
Caution light is flashing	<ol> <li>Reverse polarity or voltage on ground condition is present at the power source.</li> <li>Surge Guard mis-wired on the line side.</li> <li>Open ground circuit on the line side</li> </ol>	<ol> <li>Move RV to new electrical source.</li> <li>Match colors on terminals with colors on conductors.</li> <li>Move RV to new electrical source.</li> </ol>
L1 and/or L2 is red or off, and caution light is flashing	<ol> <li>Only partial power at 50 Amp source.</li> <li>No power at source</li> </ol>	<ol> <li>Move to a new source</li> <li>Use inverter or generator power</li> </ol>
SURGE light is on	<ol> <li>Built-in surge protection has been sacrificed to protect your equiptment and is no longer functioning.</li> </ol>	<ol> <li>Other features will still function, but it is recommended to replace unit.</li> </ol>

