

MODEL 35530 HARDWIRE

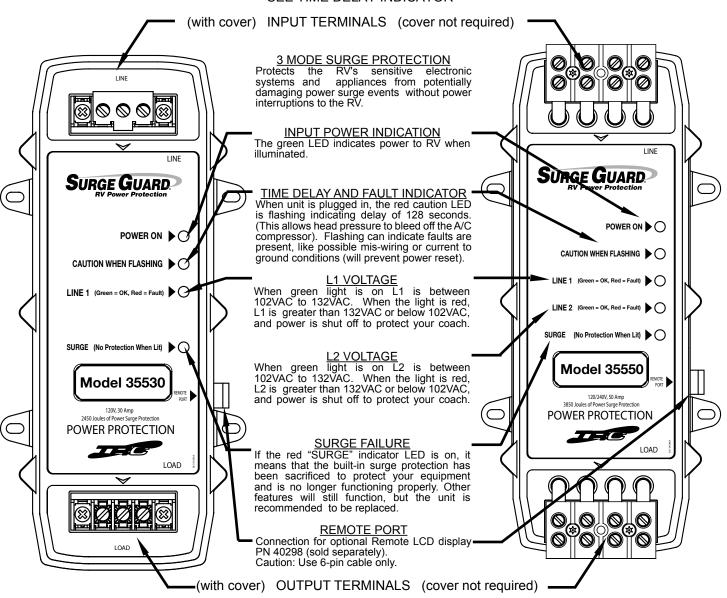
MODEL 35550 HARDWIRE

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.

SEE TIME DELAY INDICATOR





INSTALLATION INSTRUCTIONS

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

PROTECTING SOURCE POWER ONLY

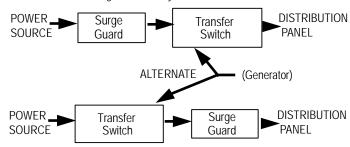
- 1. Disconnect RV power cord from source power.
- 2. Locate the Surge Guard® in the RV's electrical compartment. Unit should be located where lights are clearly visible to the user.



NOTE: Additional cable used must be electrically equivalent to original equipment.

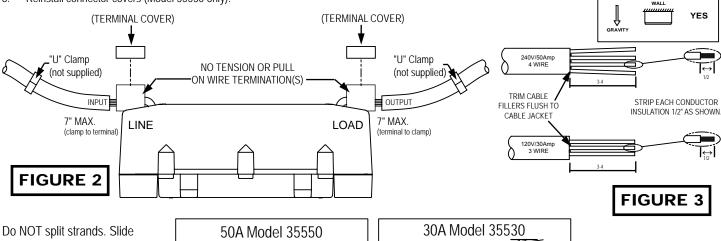
PROTECTING SOURCE AND GENERATOR POWER

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



MOUNTING IN RV COMPARTMENT

- 1. Position so LINE end is facing direction of incoming power cord.
- Using #10 hardware, mount unit securely in place using molded mounting tabs.
- 3. Remove terminal block covers (Model 35530 only)
- 4. Route primary cable into position (over exposed terminals or into terminal block wells) allowing enough slack to eliminate stress or tension on cable connections to be made. (See Figure 2)
- 5. Cut power cord, strip back outer jacket as shown. (See Figure 3)
- 6. Install conductors as shown. (See Figures 4, 4A, 5 & 5A)
- 7. After connections are made, secure both line and load side cables. Use "U" clamps (not supplied) to prevent strain on terminal connections. Recheck tightness of ALL connections.
- 8. Reinstall connector covers (Model 35530 only).



into terminals of block housing

FIGURE 4

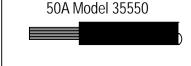




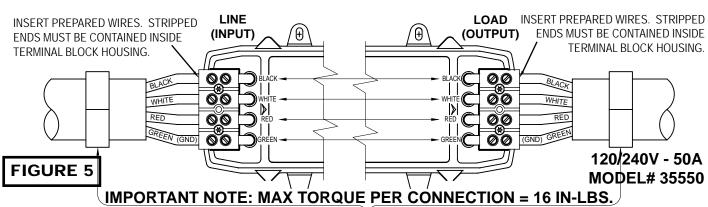
FIGURE 4A

MOUNTING POSITION

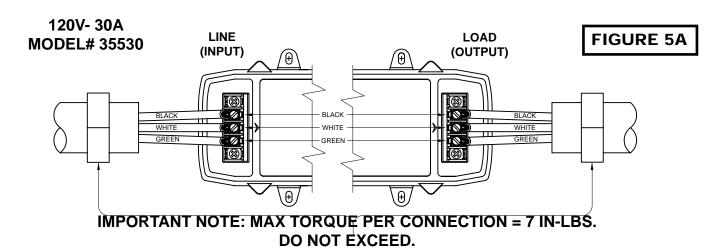
ALL YES

YES

NO







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 instrctions may result in a shock hazard.

INDICATOR LIGHT CHART

MODEL 35530				
CONDITION	INDICATOR	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	 Reverse polarity or voltage on ground condition is present at the power source. Surge Guard mis-wired on the line side. Open ground circuit on the line side 	Move RV to new electrical source. Match colors on terminals with colors on conductors. Move RV to new electrical source.		
L1 and/or L2 is red or off, and caution light is flashing	Only partial power at 50 Amp source. No power at source	Move to a new source Use inverter or generator power		
SURGE light is on	Built-in surge protection has been sacrificed to protect your equiptment and is no longer functioning.	Other features will still function, but it is recommended to replace unit.		

