

SURGE GUARD

RV Power Protection

Surge Guard Plus Model 40240

RV Power Protection

120/240V, 50A, 60 Hz



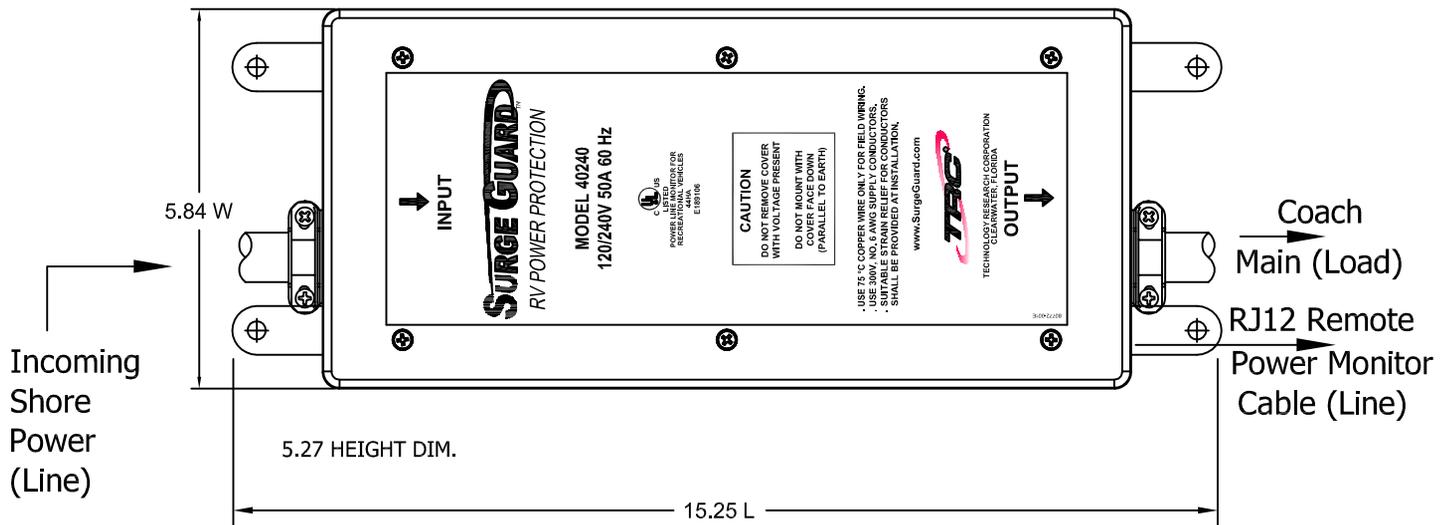
Remote Power Monitor Display



www.SurgeGuard.com

Installation & Operating Instructions

The Surge Guard unit should be mounted on a dry interior surface that is protected from inclement weather. The Surge Guard unit must have accessibility to incoming shore power source and outgoing coach main load cable.



Package Contents :

- Power Protection Unit
- NM Cable Strain Relief Connectors
 - 1 EA. Size 1 $\frac{1}{4}$ in.
 - 2 EA. Size $\frac{3}{4}$ in.
 - 1 EA. Size $\frac{1}{2}$ in.
- Mounting Screws
- 4 Pcs. - $\frac{1}{4}$ X $\frac{3}{4}$ (Self Tapping)
- Remote Power Monitor Display with (50 ft.) RJ12 Cable Assembly

PLEASE READ THE ENCLOSED INSTRUCTIONS CAREFULLY.

In the event you have any questions concerning the care of this product, please contact the Sales Department at Technology Research Corporation.

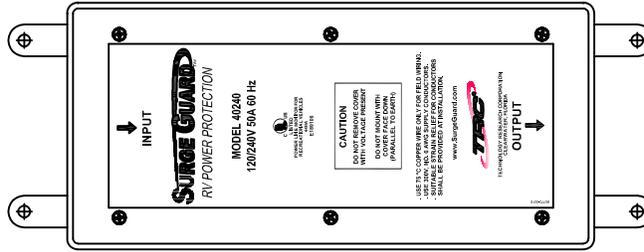
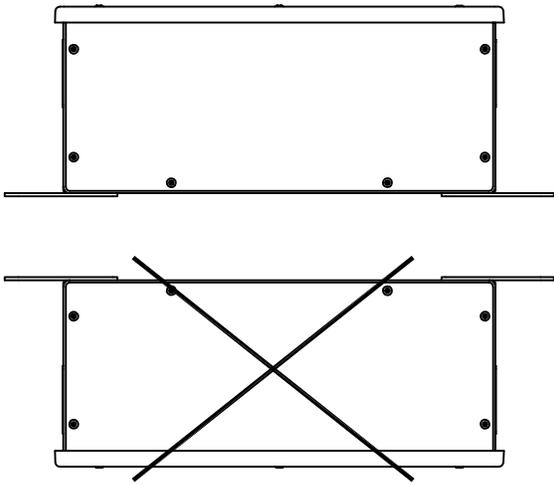
WARNING: This Surge Guard Plus® device must be installed by a licensed electrician or by an RV dealer.

UNIT MUST BE ACCESSIBLE FOR FUTURE SERVICING IF REQUIRED.

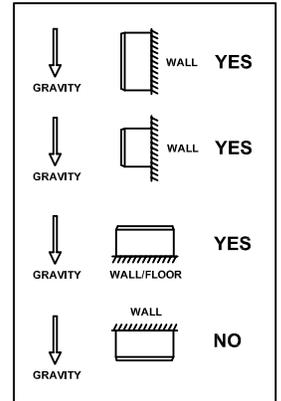
RECOMMENDED LOCATION POSITIONS ARE AS FOLLOWS:

FIRST-UNIT COVER FACING UP AND HORIZONTAL

SECOND-UNIT VERTICAL OR PERPENDICULAR TO THE HORIZONTAL



MOUNTING POSITION



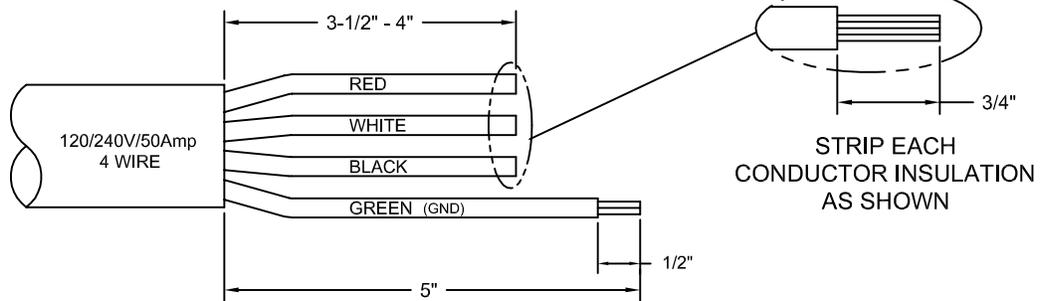
DO NOT INSTALL UPSIDE DOWN WITH COVER FACING DOWN TOWARDS THE EARTH.

DE-ENERGIZE / DISCONNECT INCOMING SHORE POWER BEFORE PROCEEDING.

SUGGESTED INSTALLATION PROCEDURE.

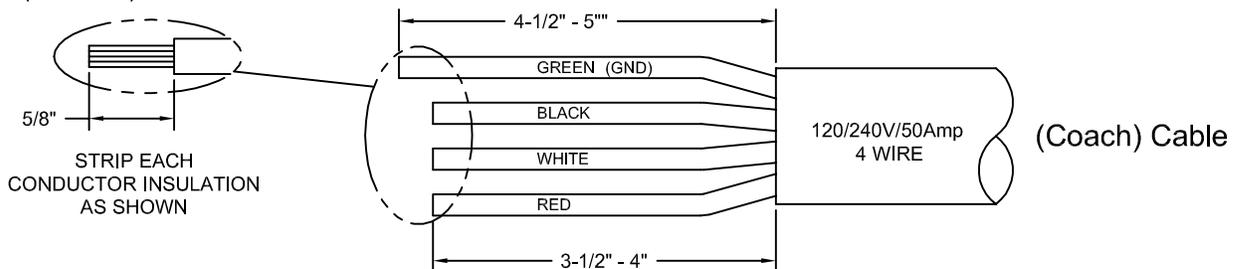
1. Remove Cover.
2. Select NM Strain Relief Connectors.
 - A. Select appropriate size connectors to fit cables to be installed.
 - B. Select corresponding "Knockouts" on ends of unit, install and tighten in place.
3. Tighten connector jam nut with cable clamping screws positioned for easy access during cable assembly.
 - Unscrew clamping screws to allow for maximum cable opening.
4. Prepare Cable.
 - A. Line Side (INPUT)

Shore Power Cable



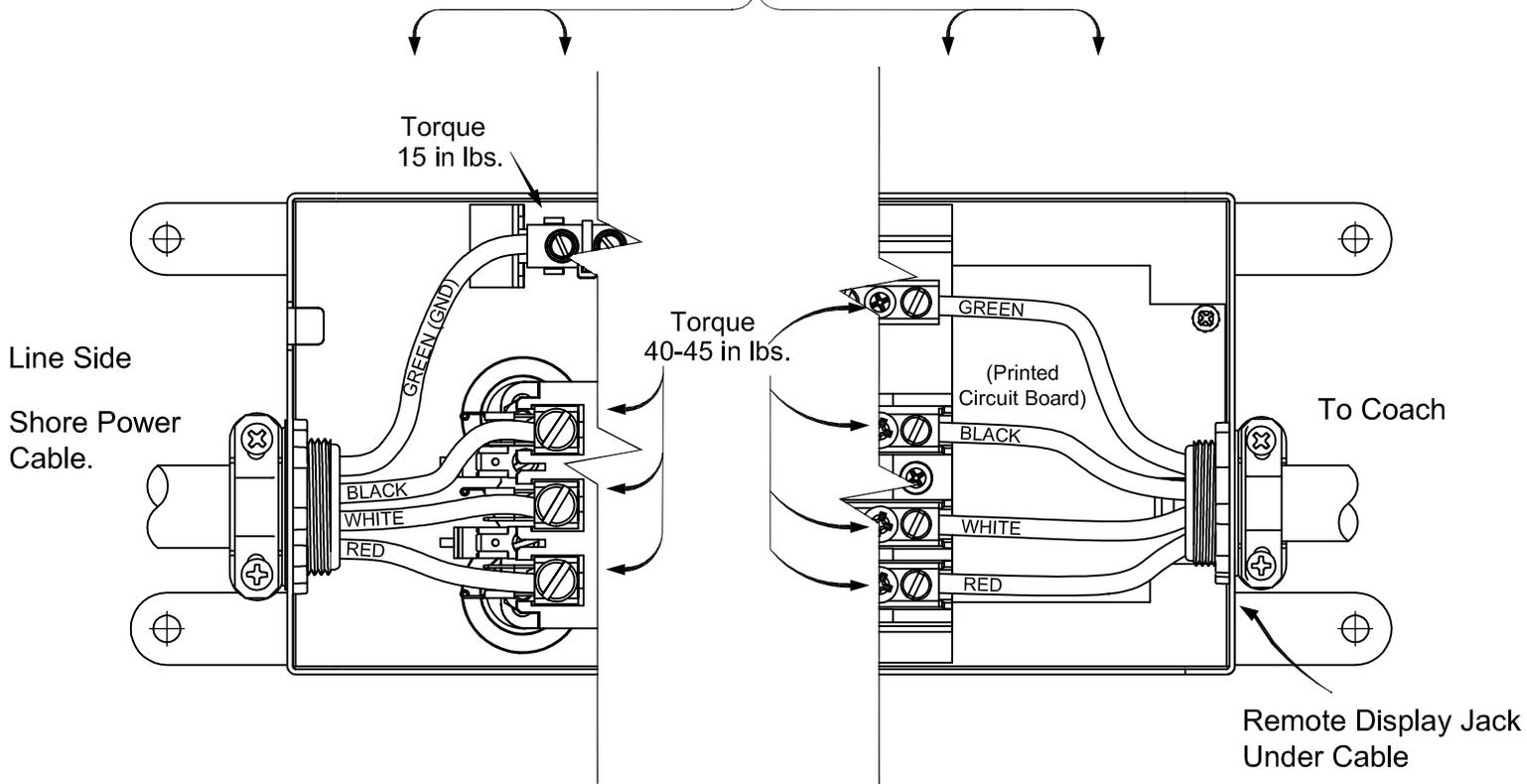
Cable Preparations Continued.

B. Load Side (OUTPUT)



5. Install unit in pre-selected location using mounting template (supplied) (4 mounting screws included).
6. Install cables through strain reliefs and connect wires as shown.
 - Maintain wire color continuity. Torque conductor terminal connections to values shown.

CAUTION Do Not allow wire / insulation clippings to fall into unit- this may cause a failure.



AFTER CONNECTIONS ARE MADE, SECURE BOTH LINE & LOAD SIDE CABLES.

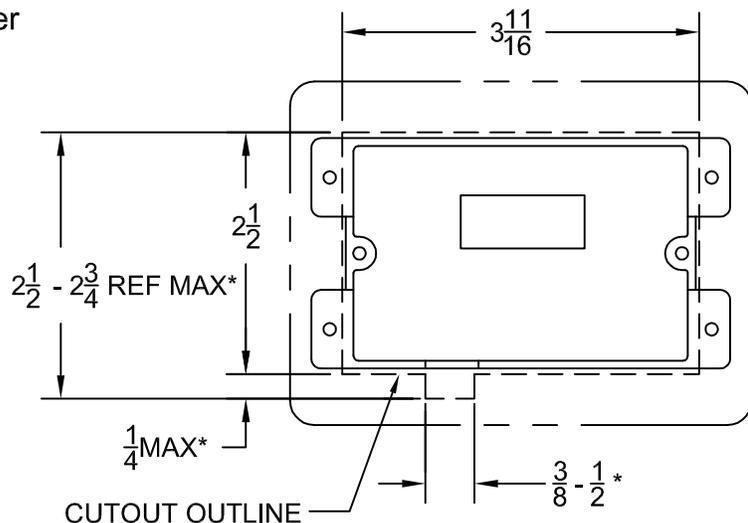
7. Check position of cable through strain reliefs to ensure that no tension is present on all connections, once cables are positioned and connected to the appropriate terminals. Secure cables in-place by tightening cable clamps to prevent cable movement. Install Cover.

INSTALL REMOTE POWER MONITOR DISPLAY.

1. Location for the remote power monitor display should be determined by where it is most convenient to view the display. This remote power monitor allows for continuous visual indication of source voltage and load current or diagnostics. The remote power monitor is supplied with a 50 ft. RJ12 connector cable. This allows for installation virtually anywhere inside the RV. It may also be installed in the same location as the Surge Guard Power Monitor. Mounting is not necessary, leave enough cable length for accessibility, balance of cable can be bundled with a plastic tiewrap. Should a remote location be desired, route cable through the coach as needed. (Cable ends and remote display must be located in a dry interior location away from inclement weather and moisture.)
2. Suggested Mounting Procedure for Remote Power Monitor
 - A. Remove Cover (Do not allow foreign matter to fall into open box) using the open box as a template, mark outline on mounting surface. Outline as follows:
 *NOTE: Lay box on its side to position "notch" for flat cable connection. Do not exceed dimensions shown or cover plate, when installed will not cover "notch".
 - B. Position box, with cable installed, secure with appropriate screws (not supplied). Attach the cover plate on mounting surface. Outline as follows:



Remote Power Monitor Display cover



Technology Research Corporation (TRC) Surge Guard® Warranty Information

Limited Product Warranty

TRC warrants that this product, when properly installed according to TRC's installation procedures, shall be free of defects in materials and workmanship under normal use for a period of one year from date of purchase. For original equipment installed products, warranty is one year from date of purchase, not to exceed two years from date of manufacture. The warranty extends only to the original purchaser and is non-transferable, unless it was factory installed onto the RV and is then transferable with the RV Coach. During the warranty period, TRC will, at no charge, repair or replace defective parts or, at the option of TRC, replace the Surge Guard product within a reasonable time after the unit is returned to us. This warranty does not extend to any TRC product that has been damaged or rendered defective (a) as a result of an accident, misuse, or abuse; (b) by the use of parts not manufactured or sold by TRC; or (c) by modification of product. Labor charges for removal or replacement of the Surge Guard product are the responsibility of the customer. This Limited Warranty covers only products purchased from an authorized dealer, retailer or seller and does not cover used, salvaged or refurbished products.

Nullification of Warranty

The occurrence of any of the following nullifies and voids this warranty:

1. Any non-authorized modification, repair, or physical damage to the Surge Guard product, accidental or otherwise, not caused by a defect in material or workmanship.
2. If TRC determines that the Surge Guard has been improperly installed (see installation instructions) altered in any way, or tampered with.

The Warranty does not protect against acts of God, such as direct lightning strikes, flood, earthquake and war. It also does not protect against vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, or damage due to low voltage disturbances for products without under voltage protection (i.e. brownouts, sags, or power outages), non-authorized program or system equipment modification or alteration.

Sole Warranty

This warranty contains the sole warranty of TRC, there are no other warranties, expressed or, except as required by law in the State of Florida, implied, including implied warranty or condition of quality, merchantability or fitness for a particular purpose, and such implied warranties, if any, are limited in duration to the term of this warranty. TRC expressly disclaims any liability under this warranty for any sums that exceed the retail value of the Surge Guard unit. Some states do not allow limitations on how long an implied warranty lasts.

No agent or representative of TRC, retailer, distributor or dealer has any express or implied authority to make any representation, promise, guarantee or warranty not stated in the Limited Product Warranty.

In no event shall TRC be liable for direct, indirect, incidental, special, consequential or multiple damages arising out of the use of the product or damage to the connected equipment, regardless of the legal theory on which such claim is based; even if advised of the possibility of such damage. The excluded damages include, but are not limited to, loss of profits, loss of savings or revenue, loss of life, injury, loss of use of the product or the connected equipment or any associated equipment, loss of software, cost of capital, cost of any subsequent equipment, facilities or services, downtime, the claims of third parties, including customers, and damage to property. Some states do not allow exclusion or limitations of incidental or consequential damages. This warranty is valid in the U.S. and Canada only.

This warranty is in lieu of all other warranties, obligations, or liabilities expressed or implied by the company. Any properly installed device that proves defective in normal use will be repaired or replaced at TRC's option provided the procedure as stated below is followed:

1. Contact TRC Customer Support at 1-800-780-4324 to obtain a Return Materials Number.
2. Properly package returned unit.
3. Display Return Materials Number on outside of box.
4. Include Proof of Purchase, including date of purchase.
5. Supply full written description of the problem.
6. Specify your name, address, and daytime phone number.
7. Ship unit postage prepaid directly to:

Return Materials Department
Technology Research Corporation
5250 140th Avenue North
Clearwater, Florida 33760

Any questions regarding this warranty, please contact TRC by phone at 1-800-780-4324, or by email at productinfo@trci.net.

