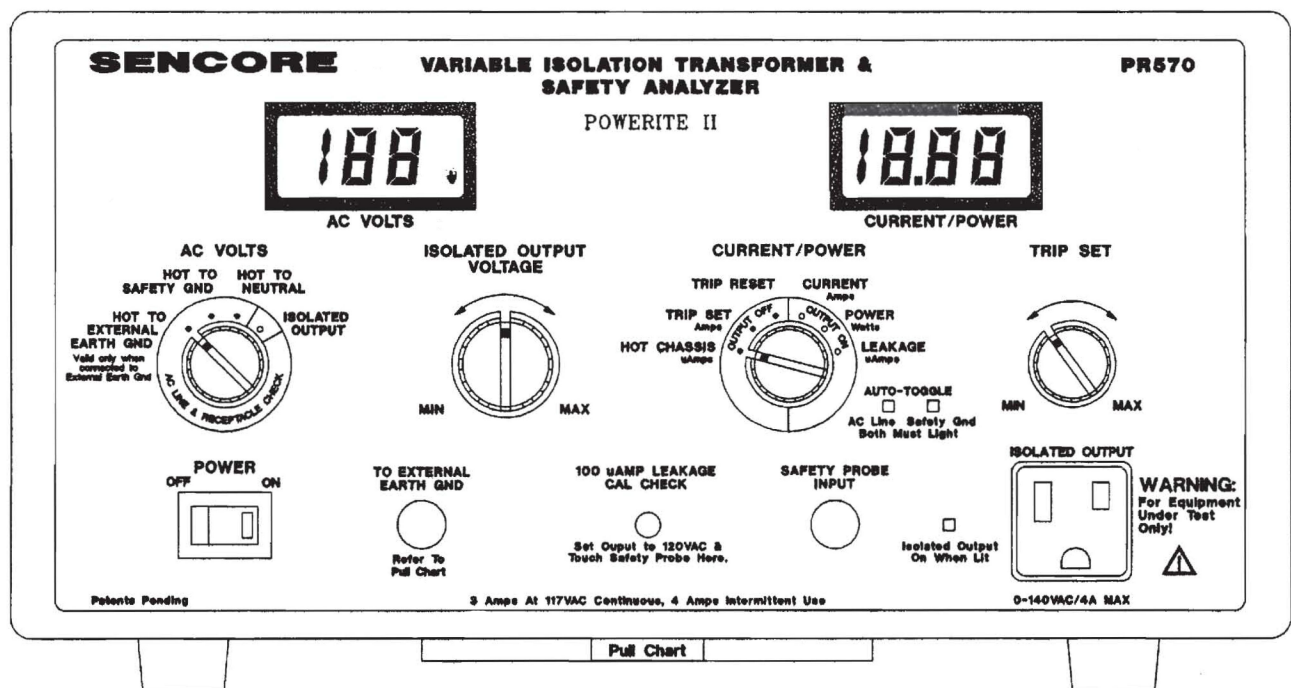


# PR570

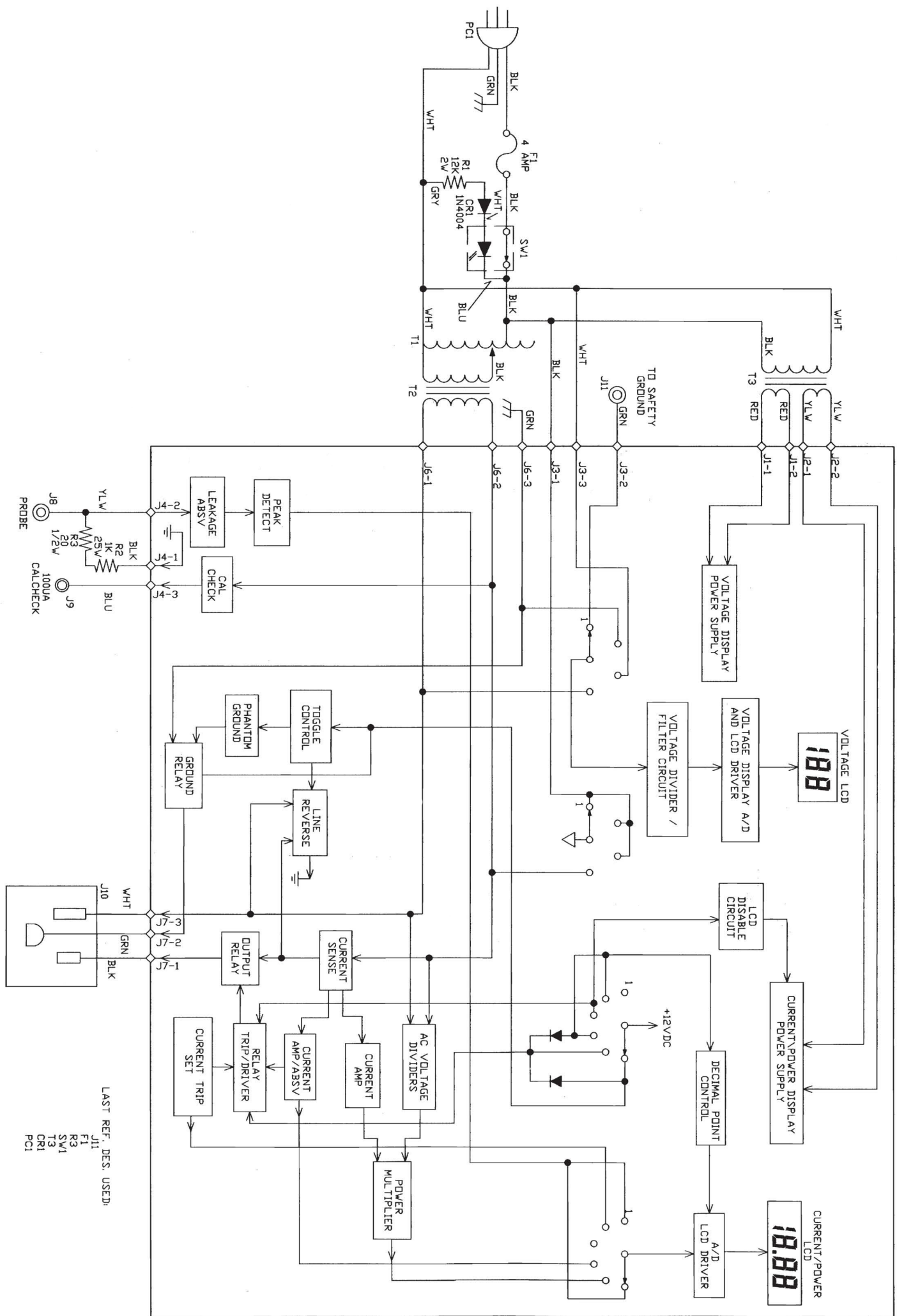
## POWERITE II

### Schematic & Parts List



**SENCORE**  
3200 Sencore Drive, Sioux Falls, SD 57107  
CALL 1-800-SENCORE (736-2673)

# BLOCK DIAGRAM



SCHEMATIC REFERENCE	PARTS NO.	DESCRIPTION
C101,121,137,138	224G168	CAPACITOR, MYLAR,.22UF,100V,10%
C102,103,104,110	224G216	CAPACITOR, MYLAR,.1UF,100V,10%
C113	224V1	CAPACITOR, MYLAR,.022UF,100V,10%
C131	224V4	CAPACITOR, MYLAR,.47UF,100V,10%
CR111,116,117	220V1	LED, 20MA,T-1 3/4
F1	44G23	FUSE, 4A, 3AG, SLO BLO
IC101,105	269V4	IC, NJU9201BD, A/D-LCD DRIVER
IC102	269G7-A	IC, MC14001BCP, QUAD NOR
IC103,112	269G135	IC, 7812, +12V REG
IC104	269G338	IC, 7912, -12 REG
IC106	269V1	IC, AD706, OP-AMP
IC107	269G764	IC, AD711, OP-AMP
IC108	269V3	IC, AD633, ANALOG MULTIPLIER
IC109	269G46	IC, TL084, QUAD OP-AMP
IC110	269G6-B	IC, MMC14040BCP, RIPPLE COUNTER
IC113,114	223V1	LCD, 3 1/2 DIGIT,
L101,102	241V1	RELAY, 12V COIL, 5A
Q107,Q108	250G34	TRIAC, MAC97A4
R1	214C1-123	RESISTOR, 12K,2W,5%
R2	114V1	RESISTOR, WW,1K,25W,5%,300PPM
R102,156	214A38-1005A	RESISTOR, METAL FILM,100K,1/4W,1%,100PPM
R103,183	214C1-512	RESISTOR, 5.1K,1/4W,5%
R104,109,184	215V1-10K	POT, 10K,1/2W
R113,148,159,174	215V1-50K	POT, 50K,1/2W
R115	214C1-304	RESISTOR, 300K,1/4W,5%
R117,118,199,120	214C29-1006A	RESISTOR, METAL FILM, 1M,1/4W,.1%,50PPM
R127	214A38-1000A	RESISTOR, METAL FILM, 1,1/4W,1%,100PPM
R128	214C1-131	RESISTOR, 130,1/2W,5%
R135	214C1-511	RESISTOR, 510,1/4W,5%
R136	215V1-1K	POT, 1K,1/2W
R144,171,172,173	214C1-134	RESISTOR, 130K,1/4W,5%
R145,153	214V2	RESISTOR, WW,2.7K,10W,5%
R147	214C26-2152B	RESISTOR, METAL FILM, 215,1/42,.1%,50PPM
R151	214A38-1003A	RESISTOR, METAL FILM, 1K,1/4W,1%,100PPM
R152,164,166	214A38-1006A	RESISTOR, METAL FILM, 1M,1/4W,1%,100PPM
R154	214C10-101	RESISTOR, 100,2W,5%
R155	214A38-1115A	RESISTOR, METAL FILM, 110K,1/4W,1%,100PPM
R157,158	214A38-7874A	RESISTOR, METAL FILM, 78.7K,1/4W,1%,100PPM
R160	214A38-4994A	RESISTOR, METAL FILM, 49.9K,1/4W,1%,100PPM
R161	14A38-4325A	RESISTOR, METAL FILM, 432K,1/4W,100PPM
R163,165	214A38-1004B	RESISTOR, METAL FILM, 10K,1/4W,.1%,50PPM
R175	214A38-1825A	RESISTOR, METAL FILM, 182K,1/4W,1%,100PPM
R178	214C26-9533B	RESISTOR, METAL FILM, 9.53K,1/4W,.1%,50PPM
R179	214C26-8664A	RESISTOR, METAL FILM, 86.6K,1/4W,.1%,50PPM
R181	214C26-1206B	RESISTOR, METAL FILM, 1.2M,1/4W,.1%,50PPM
R190	214A38-2004A	RESISTOR, METAL FILM, 20K,1/4W,1%,100PPM
R191	215V2-470	POT, 470,1/2W,PCB/PANEL
SW101,102	225G371	SWITCH, 2P6T,ROTARY
T101	228V3	TRANSFORMER, CURRENT SENSE



## WARNING

*Avoid damage to parts caused by static electricity!*

Most solid state devices and film resistors are susceptible to damage due to discharge of static electricity. Observe the following precautions when a PC board is removed from the unit, or when handling components.

1. The person handling the part must be grounded through a 1 megohm resistor via a wrist strap or similar ground connection.
2. A PC board or component should never be placed on an insulated surface. The surface must be grounded (through an 11 megohm resistor) and conductive.
3. All replacement parts must be left in a completely enclosed, conductive container or package until ready for use. The person removing the part from the container must be properly grounded. All parts susceptible to static damage are shipped in conductive containers when reordered from the Sencore Service Department.

Components not listed are standard replacement parts and may be purchased locally. When ordering parts, please specify instrument model number, schematic reference, part number, and description. Please include remittance (check or money order) with your order otherwise invoice will be shipped C.O.D. Minimum billing is \$5.00.

Printed In U.S.A.





# WARRANTY

Your PR570 "Powerite II" has been built to the highest quality standards in the industry. Each unit has been tested, aged under power for at least 24 hours, then, was retested to insure it met all published specifications after aging. Your instrument is fully protected with a 1 year warranty and Sencore's exclusive 100% Made Right Lifetime Guarantee in the unlikely event a defect was missed. Details are covered in a separate document included with your instrument.

## SERVICE

The Sencore Factory Service Department provides all "in and out of warranty" service and complete calibration services for all Sencore instruments. No local service centers are authorized to repair Sencore instruments. Factory service insures you the highest quality work, the latest circuit improvements, factory parts, and the fastest turnaround time possible. Most service repairs are completed within 72 hours of their receipt.

### Repacking For Shipment

Save the original packing materials for reuse should you ever need to ship your PR570 or return it to the Sencore Factory Service Department for repair or calibration. If the original packing materials are unavailable or unfit for reuse, repack the PR570 according to the following guidelines.

1. Use a corrugated shipping container that has a test strength of 50 lbs. and internal dimensions of at least 12" x 18" x 18".
2. Enclose the following information: Owners address, billing information, purchase order (if applicable), name and phone number of contact person, description of problem and reason for return. No return authorization is required.
3. Enclose the unit inside a plastic bag to protect its finish and prevent foreign material from getting inside.
4. Cushion the unit with a minimum of 3" of padding material. Pack the padding tightly enough to prevent the unit from shifting during shipment.
5. Seal all seams on the container with strapping tape.
6. Send the packed unit to address listed below (we recommend shipping via United Parcel Service).

Parts may be ordered directly from the Service Department.

We reserve the right to examine defective components before an in-warranty replacement is issued.

**Sencore Factory Service**  
**3200 Sencore Drive**  
**Sioux Falls, SD 57107**  
**Toll Free: 1-800-SENCORE**  
**Fax: 605-335-6379**

Fill in for your records:

Purchase Date\_\_\_\_\_ Serial Number\_\_\_\_\_ Run Number\_\_\_\_\_

*Note: Please refer to the run number if it is necessary to call the Sencore Factory Service Department. The run number may be updated when the unit is serviced.*

# SENCORE

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Sioux Falls, SD 57107  
Call 1-8000-SENCORE (736-2673)**

*Innovatively designed  
with your time in mind.*