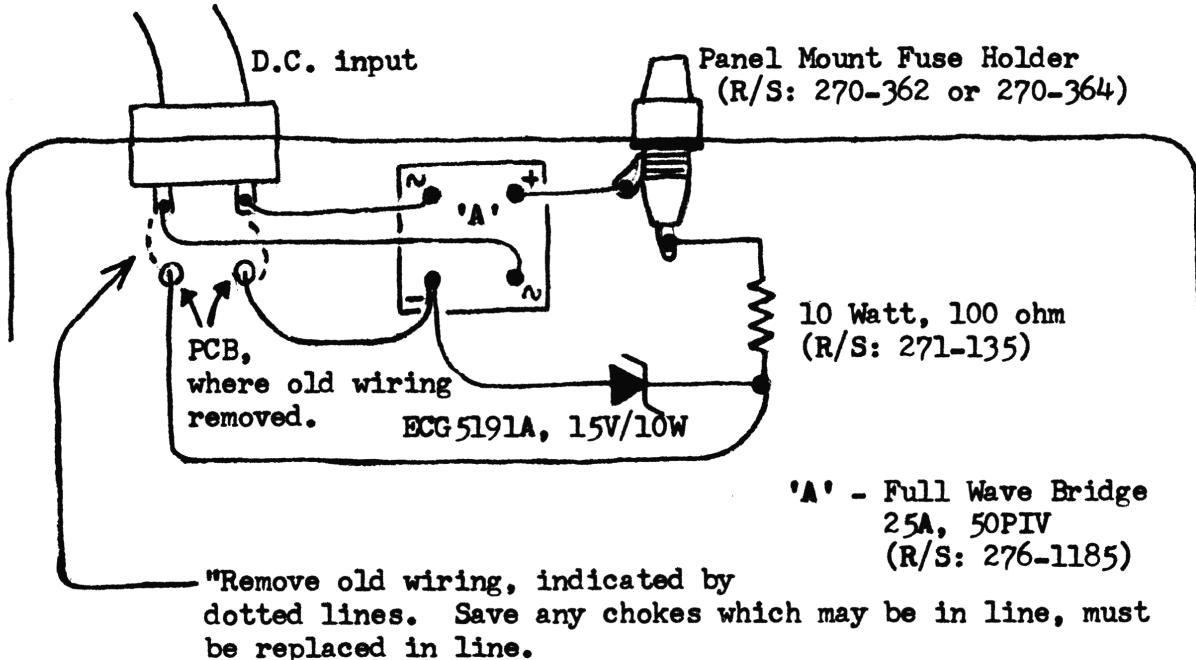


## POLARITY PROTECTOR and OVER-VOLTAGE PROTECTION

RE: Vol. 11, page 60 (Polarity Protector).

Have modified this somewhat by adding over-voltage protection. Had a rash of Trucker's bringing in radios this winter that have been 'Smoked'. All claimed that the correct fuse was in line and did nothing! The truck's electrical system went hay-wire and put out too much voltage! Modified the input to PCB on the units as illustrated below; all components mounted on inside of unit; rear of chassis! Radio Shack has all parts, with exception of Zener Diode...



Use heat sink compound on bridge. All mounting of components done on the inside rear of chassis - if possible. (Be careful when drilling holes, check for metal shaving falling onto the PCB.)

Theory: Hook-up of external wiring will make no difference as to polarity! WITH REGULAR FUSE RATING FOR THE UNIT, any voltage over 15VDC will cause excess current to flow thru the Zener and blow the fuse.