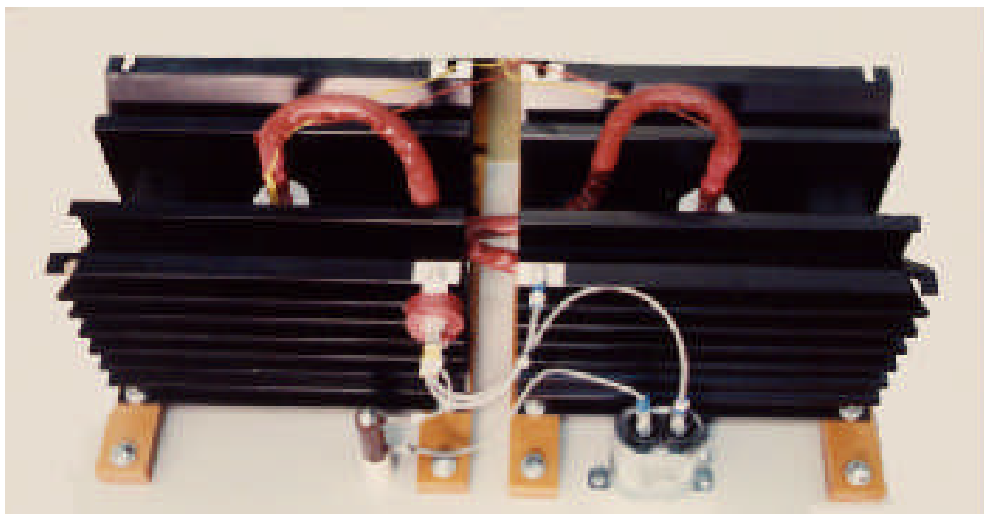
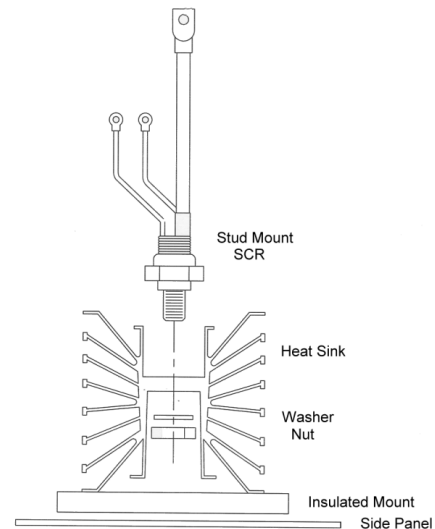


# Why Convert from Stud Mount SCR Assemblies to Brick Type SCR Assemblies

As long as a stud mount type SCR assembly is in good working order there is no real need to touch it. However if it has failed, replacing it with the same stud mount design is uneconomical due to the lengthy repair time required.

Stud mount SCRs are “bolted” to a heat sink. To replace one requires that the heat sinks either be removed from the side panel they are mounted on, or the whole side panel be removed from the cabinet to reach the SCR nuts. The disassembly and reassembly are as follows:

1. Remove the SCR assembly from the side panel, or remove the side panel from the control cabinet.
2. Remove the nut on the bad SCR.
3. Remove the defective SCR
4. Install new SCR.
5. Replace the SCR nut.
6. Tighten nut to appropriate torque.
7. Re-install the heatsinks or side panel into the control cabinet.

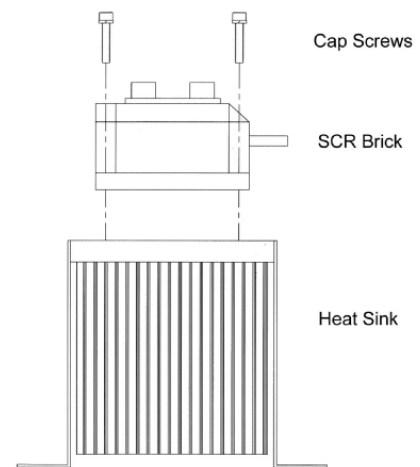


**THERE IS A BETTER WAY!**

Next time a stud mount SCR fails, replace the entire assembly with an SCR Brick design. With an SCR brick, both SCRs are housed in a single package that is directly mounted on top of the heat sink where it is easily accessible. The Brick design has a snubber network and fan that have been removed for illustrative purposes.

As can be seen in the sketch below, replacing a bad SCR is extremely simple and FAST.

1. Remove the socket head Cap Screws from the brick.
2. Remove the SCR Brick.
3. Install new Brick
4. Re-install the cap Screws



The Brick type SCR assembly is also safer than the Stud Mount type because the heat sink is not electrically hot. While the Stud Mount type SCR assembly is mounted on insulators and remains at line potential (typically 480 V), the Brick type SCR assembly can be mounted directly on the cabinet wall or panel and is at ground potential.

Brick type SCR assemblies are available from Redkoh Industries in current ranges up to 500 amps. The assemblies contain a heat sink, SCR brick, snubber circuit, over temperature switch and cooling fan.

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