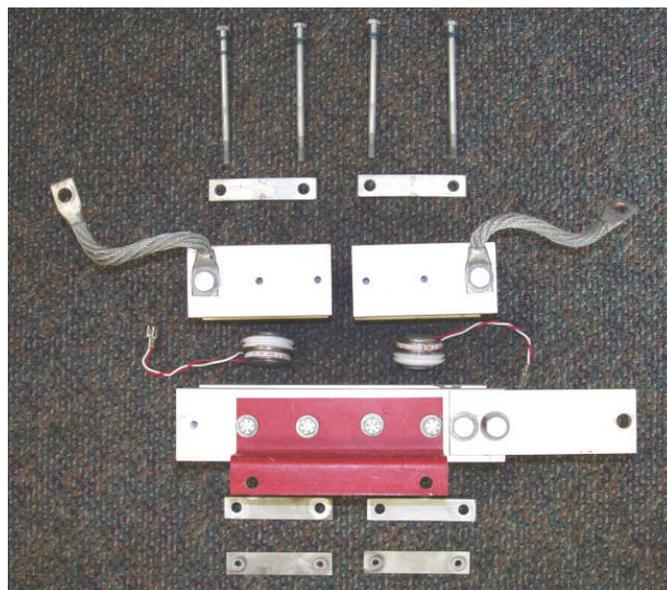
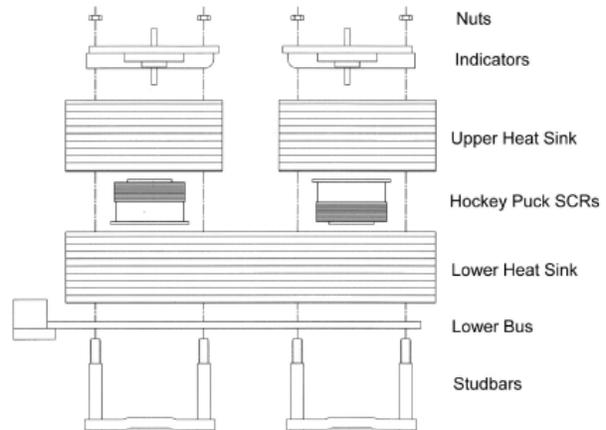


# Why Convert from Hockey Puck SCR Assemblies to Brick Type SCR Assemblies

As long as a hockey puck 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 hockey puck design is uneconomical due to the lengthy repair time required.

The hockey puck SCR's are sandwiched between two layers of heat sink. This requires that the heat sinks be disassembled to reach the SCR's. As shown in the sketch below, to get to the SCR's:

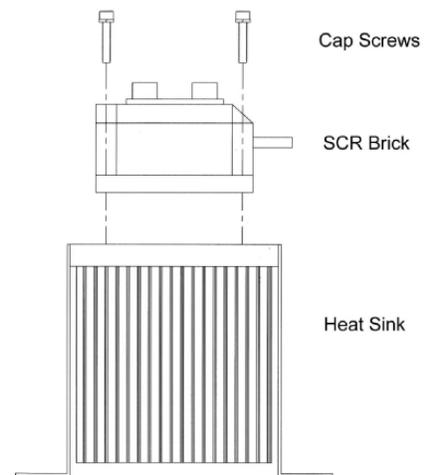
1. Remove the SCR assembly from the control cabinet.
2. Remove the hold down nuts.
3. Remove the Indicators.
4. Remove the upper heat sinks.
5. Remove the defective SCR
5. Install new SCR.
6. Re-install upper heat sinks.
7. Re-install Indicators.
8. Re-install nuts.
9. Tighten to appropriate torque shown on Indicators.
10. Re-install assembly into control cabinet.



**THERE IS A BETTER WAY!**

Next time a hockey puck 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. As can be seen in the sketch below, replacing a bad SCR is extremely simple and FAST. The fan and snubber circuit have been removed for illustrative purposes.

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 Hockey Puck type because the heat sink is not electrically hot. While the Hockey Puck 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, temperature switch and cooling fan.

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