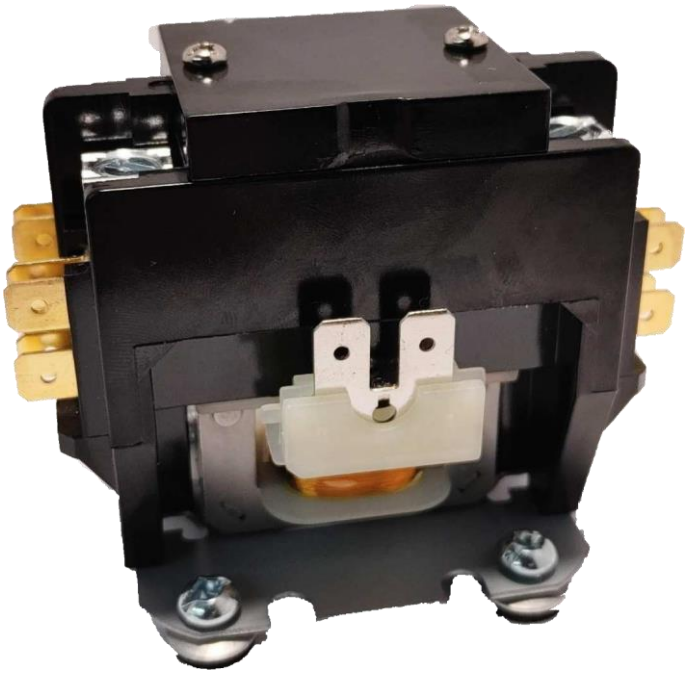
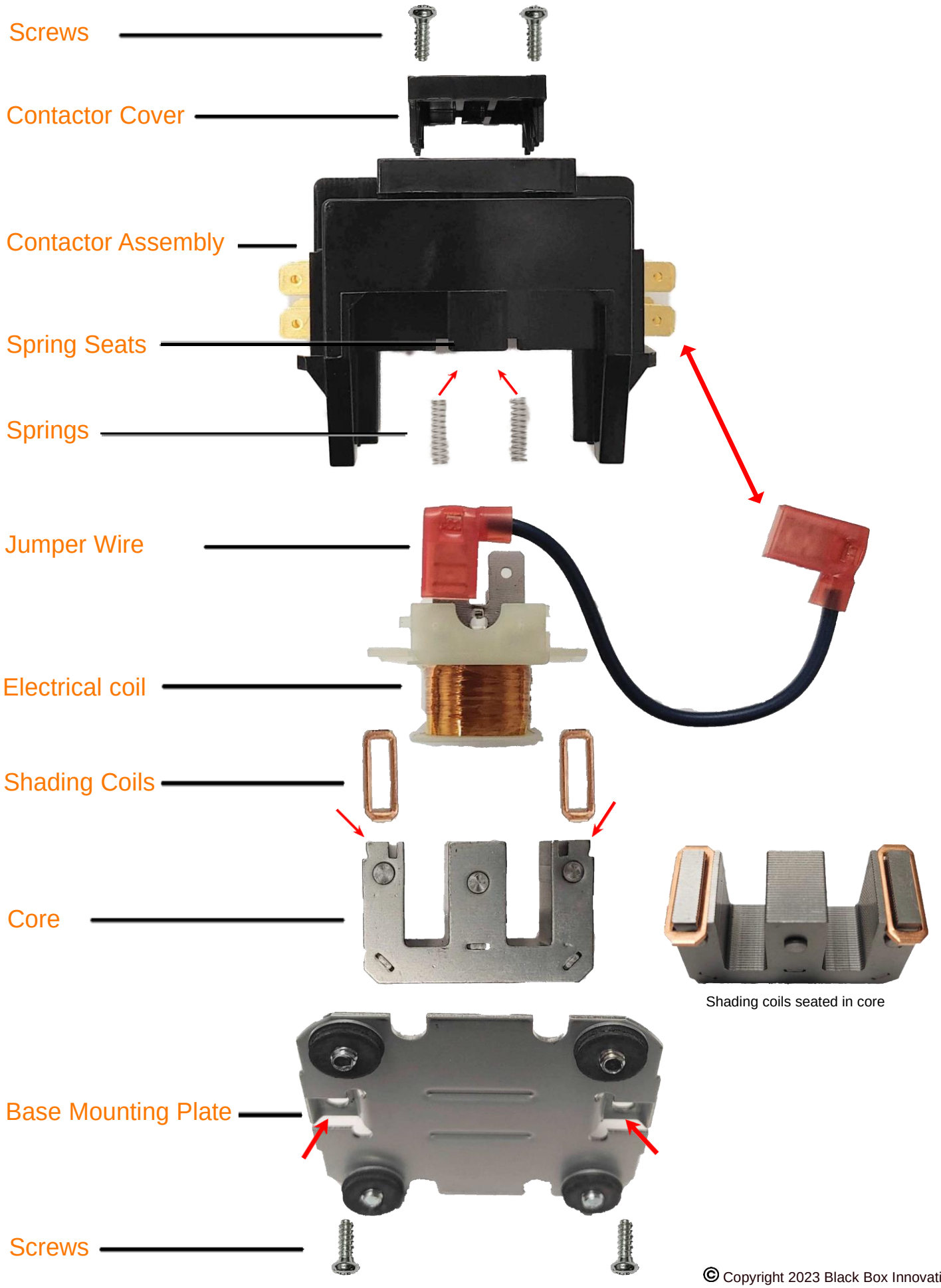
Contactor Maintenance
&
Assembly



WARNING-When using electric products, basic precautions should always be followed

Servicing and maintenance should always be carried out by qualified personnel

CAUTION- Disconnect the device from any power source before servicing and maintenance



Shading coils seated in core

Disassembly

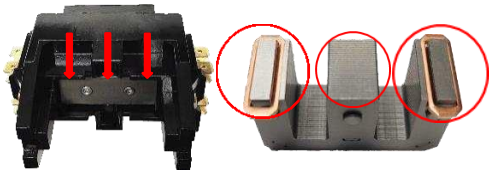
Step 1: Remove contactor from EVEMS enclosure and disconnect from all power sources before performing service or maintenance.

Step 2: Disconnect blue Jumper Wire from both points on contactor.

Step 3: Flip contactor over to access the Base mounting plate located on bottom of contactor.

Step 4: Remove two Screws found on top and bottom of Base mounting plate. Be careful not to misplace any small pieces.

Step 5: Look for debris inside Contactor. Lightly sand where Core and Contactor surfaces meet (as shown in Figure “A”) with fine-grit sandpaper. Ensure there is a clean and flat mating surface. Once done remove all dust and other particles from the area. It is recommended not to blow into assembly, rather use a vacuum to remove debris and dust.

*Figure A 

Step 6: Carefully inspect contactor assembly pieces for wear or defect before reassembly.

Reassembly

Step 1: Install both Springs onto Spring seats. Springs should be seated properly on both contactor assembly and Electrical coil mating surfaces.

Step 2: Install Electrical coil into contactor and spring assembly, ensuring springs do not shift out of seated position.

Step 3: Install both copper Shading coils back onto Core seats

Step 4: While holding assembly together install Core with Shading coils into contactor and coil assembly.

Step 5: While holding assembly together, install Base mounting plate onto contactor assembly.

Step 6: Install two Screws to top and bottom of the Base mounting plate to torque specifications 5.5 in-lbs (0.6 Nm).

Step 7: Install blue Jumper Wire as shown in diagram.

Step 8: Reinstall contactor to the enclosure with provided screws and acoustic isolator assembly to torque specifications 5.5 in-lbs (0.6 Nm)

Step 9: Verify operation with Hand-Held operational testing device available for purchase at www.blackboxelectrical.com

WARNING: Contactor connections MUST be torqued to 40-44 in-lb (5 Nm) to avoid objectionable noise, overheating issues, and premature failure. Fixed torquing tool available for order on our website at www.backboxelectrical.com

Do not allow installation or dust particles to be blown around the enclosure and operate in a clean environment.