



AE-AN-SK-006 - SK SERIES - CARE AND MAINTENANCE

Purpose:

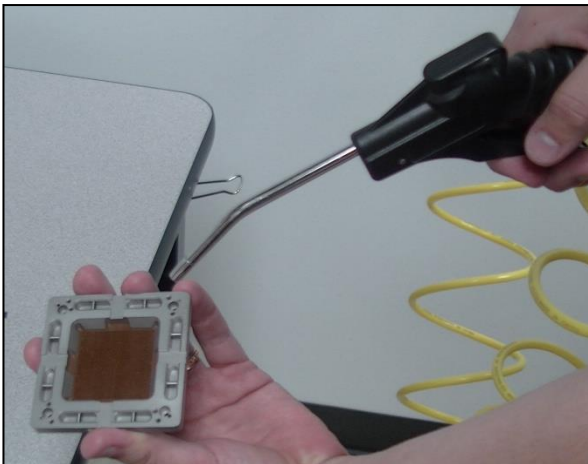
The purpose of this document is to help with SK series care and maintenance to help obtain the maximum lifespan of the Amphenol Ardent solution.

The Socket:

Amphenol Ardent Concepts makes customizable sockets that can be adjusted to fit a variety of applications. Those sockets are broken down into three main categories based on the applicable contact making the electrical connection, with those three contacts being the RC Springprobe™, the RC Connect-R™ and the Scrub-R™. This care and maintenance plan **only applies to RC Springprobe™ and RC Connect-R™ contacts**. Performing these actions outlined within this document can extend the life of your socket.

Actions:

- **Using Compressed Air** – It is important to keep all foreign object debris away from the contacts and contact elements so that a proper connection can be made. Any time the socket contacts are exposed to open air there is a chance of this debris finding its way into the contact cavity, so a precautionary measure should be taken to ensure that any debris does not influence the connection. Simply take a can of compressed air and spray the interposer that houses the contacts, removing any debris that could be lingering. If using an air compressor, make sure to use between 100-120 psi.



- **Store the Socket Correctly** – When the socket is not in use it is important to store the socket correctly to try to prevent damaging of the contacts. When storing the socket, the shipping cover should be reinstalled for contact protection.

While storing the socket, extremely humid environments should be avoided as they can cause problems for the electrical properties within the socket.

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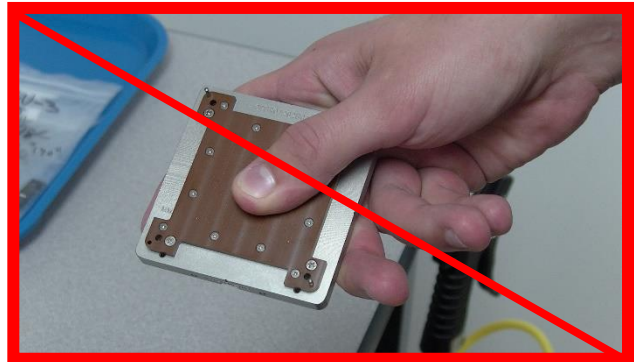
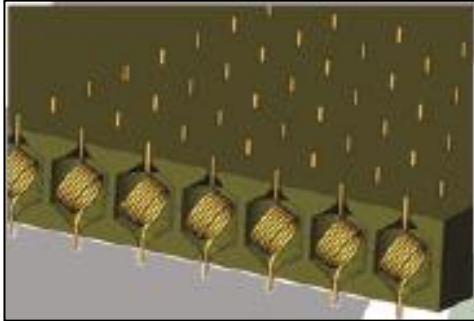
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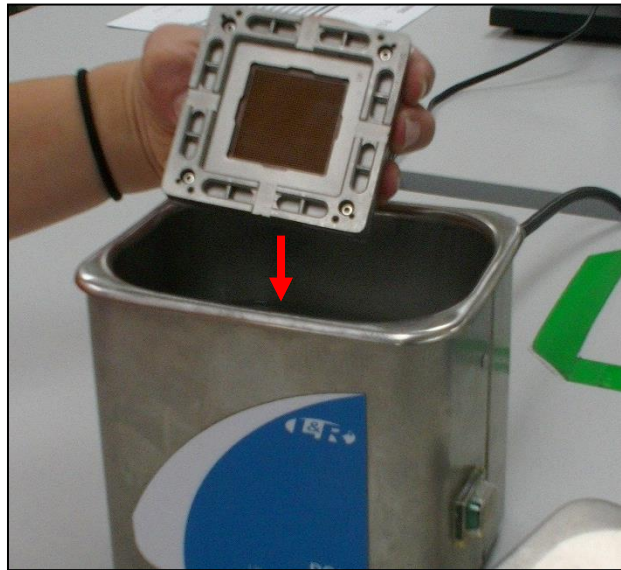
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- **Avoiding the Contacts** - It is important to avoid touching the contacts with bare skin as the contacts can be bent or oils from the skin can be transferred onto the contacts. If the contacts are touched, the suggested procedure is cleaning with a small brush and isopropyl alcohol.



- **Alcohol Baths** – For Amphenol Ardent sockets, at the time of the preventative maintenance it is recommended to put the socket together with the shipping cover as shown below, then submerge the socket in the alcohol bath for 30-45 seconds. For drying the socket, do not rub or dab with a towel, but instead use compressed air (at 100-120 psi) as recommended above.



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- Preventative Maintenance Plan** – The following table shows when the recommended maintenance procedures described above should be implemented. The amount of time between maintenance is based upon the duration of the cycle as can be seen below:

Duration of Cycle < 60 Min

	Thermal Range -40 to 0°C	Thermal Range 1 to 40°C	Thermal Range 40 to 120°C
Number of Cycles Until Maintenance	125	100	75

Duration of Cycle ≥ 60 min

	Thermal Range -40 to 0°C	Thermal Range 1 to 40°C	Thermal Range 40 to 120°C
Number of Cycles Until Maintenance	100	100	50

Note: The timeframe for performing maintenance is based off having an Amphenol Ardent Concepts lid. If using other form of compression, please consult the manufacturer

Following the steps listed in this document can help extend the life of an Ardent socket and can be ensure optimal performance.

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Who is Amphenol Ardent Concepts?

Amphenol Ardent Concepts is a leading designer and manufacturer of high performance multicoax and coaxial assemblies, connectors, and sockets used in the development of next generation semiconductors and electronics systems. Our core technology is the smallest, fastest, most electrically efficient compression mount connector technology worldwide. As data rate requirements increase and devices and systems shrink, Ardent's products deliver superior signal integrity in a dense footprint that can be reusable across programs to maximize cost savings.

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