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# TECHNICAL BULLETIN TB219

## SAFE USE AND CARE OF F2080/SDR11 COMPRESSION-SLEEVE TOOLS

Product: RAUTOOL™ Tools  
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F2080/SDR11 compression-sleeve tools must be treated with care and maintained to prevent damage to the tools themselves, and potentially, faulty connections. Maintenance includes lubrication of moving parts, such as expander heads, cones and screw-drive gears, and as noted in tool instruction sheets.

Expander tools and expander heads must be in good condition to function properly. Damaged expander tools and expander heads must not be used, as these may produce faulty connections that could leak. Of particular importance are expander heads, which can break if used improperly (see Figure 1). If an expander head becomes damaged or an expander head segment breaks, it cannot be used to expand pipes and must be replaced.

An expander head can be broken or damaged if the compression sleeve is too close to the end of the pipe while the expander head is expanded, so that the expander head is within the sleeve. In addition, the pipe can also be damaged if the compression sleeve is too close to the end of the pipe during expansion. Figure 2 illustrates an insufficient distance between the expander head and the sleeve. Correct installation requires that the sleeve be positioned away from the end of the pipe to prevent contact between the expander head and the inside of the sleeve (see Figure 3).



*Incorrect*



*Incorrect*



*Correct*

Inspect all compression-sleeve tools before each use to ensure good condition.

The following safety warnings apply to all tools:

**⚠ WARNING!**

- Wear safety glasses when using tools.
- Tools are safe for the intended use only.
- Insert fitting fully into compression tools; do not tilt fittings during compression.
- Compression jaws can pinch. Do not place fingers between jaws.

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