

Temperature Detector in Thrust Bearing Case Style B, Spring and Ring Method

Suggested installation procedure

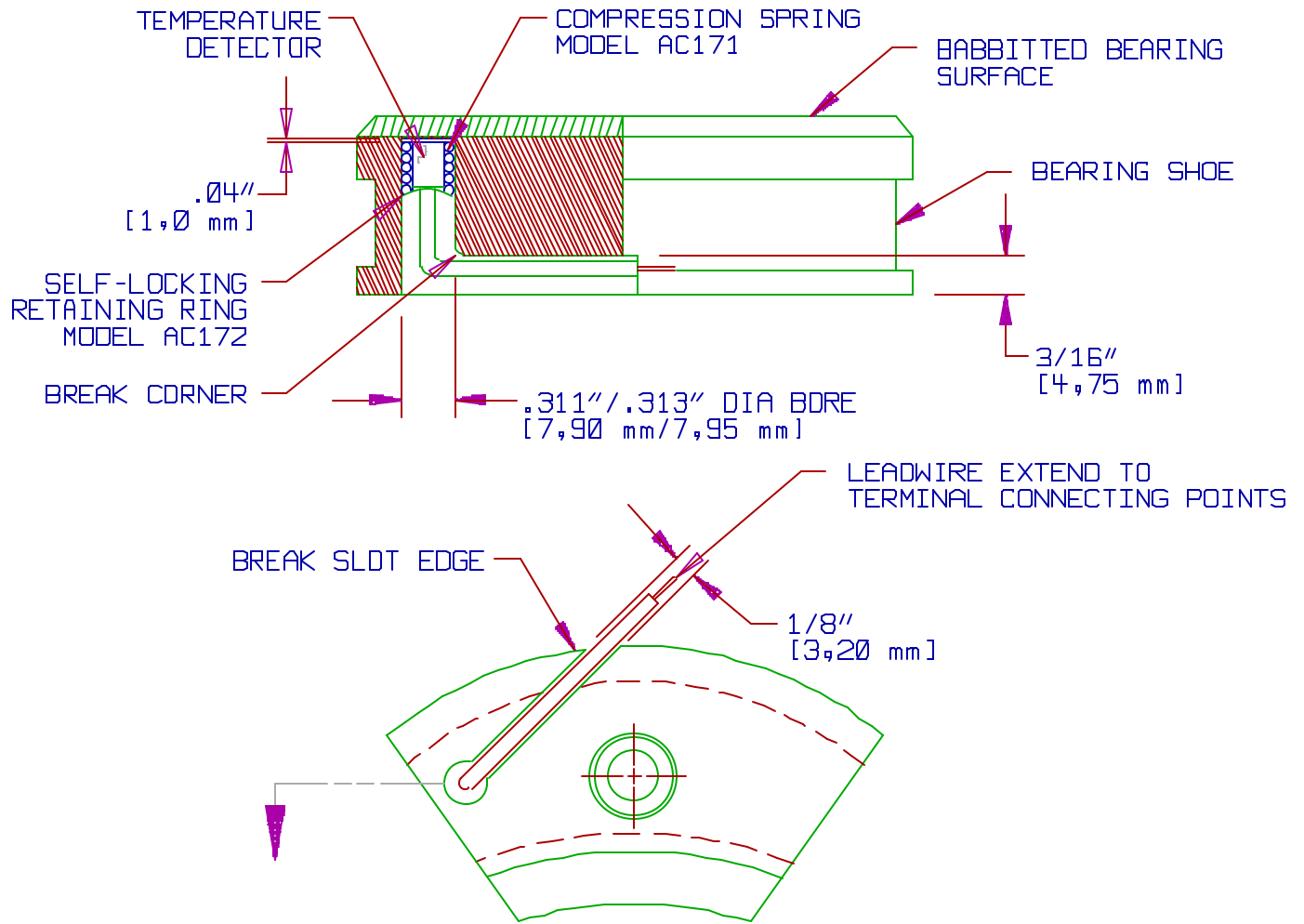
1. Bore a .311/.313" (7,90/7,95mm) diameter hole into the bearing shoe to within .04" (1,0mm) of the babbitt undersurface. The hole bottom must be flat.

NOTE: Be sure hole is **NOT** larger than .313" (7,95mm). If the hole is too big, the ring will **NOT** fit properly.

2. Mill a groove in the back of the bearing shoe 1/8" (3,20mm) wide by 3/16" (4,75mm) deep. The groove should extend from the .311/.313" (7,90/7,95mm) hole to the desired location for leadwires to leave the bearing. Terminal connecting points must be located within the leadwire length of the temperature detector being installed.
3. Slip the compression (coil) spring over the leadwire and onto the detector case. Slip the self-locking retaining ring over the leadwire until it comes in contact with the spring. The angle of the locking prongs must be away from the detector case.
4. Slip a short length of metal tubing over the leadwire and into contact with the retaining ring, 3/16" (4,75mm) O.D. thinwall stainless steel tubing is recommended. Push the detector, spring, and retaining ring into the bottom of the .311/.313" (7,90/7,95mm) diameter hole using 3/16" (4,75mm) tubing as an insertion tool. Remove the tubing.
5. Lay the leadwire flat in the bottom of the milled groove in the bearing shoe. Use mechanical retainers to secure the leadwire in the slot or pot the leadwire in the groove using an epoxy or other suitable potting compound compatible with the bearing shell material, temperature, and service conditions.

NOTE: Although the illustration on the following page depicts a thrust bearing, the above installation procedure can be used with other types of bearings, and also with equipment other than bearings.

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