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## solortron metrology

## Gauging Transducers



It is advisable when changing springs to make sure that the surrounding area is clean. The smallest particles of dirt trapped in the internal workings of the transducer will have an effect on the stroke.


1) Before opening the transducer, a reference reading needs to be taken with the probe tip fully extended. Remove the transducer from the power source.

2) Using a peg spanner, loosen the torque of the lock ring. Do not unwind the lock ring too far as it will help to return the bearing assembly to the correct position.

3) Unscrew the bearing assembly and remove. Care must be taken not to knock the core and carrier as this will affect the performance of the probe. The spring may stay inside or come out with the bearing assembly.
Note: Make sure that the anti-rotation pin is not dislodged
4) Turn the transducer case upside down, and catch the spring and spring guide. The spring guide is not fitted in all ranges of transducers.

5) Holding the case of the probe in soft jaw pliers so as not to mark it, tighten the lock ring to a torque of 35-45 cNm.
6) When the spring has been replaced, check for the following:
a. alignment of the gaiter, as this can twist.
b. cuts or abrasions to the gaiter.

Finally check that the transducer travel is smooth and free of restrictions and jamming.

