



**Fermilab**

**Particle Physics Division  
Mechanical Department Calibration  
Standards/Procedures**

**Number:** MD-CALPROC-007

**Date:** 6/26/2009

**Manufacturer:** Ashcroft

**Model:** Stainless Steel Case Gauges

**Reviewer(s):** *James C. Tweed*

**This Procedure is used for:**

Calibration of Ashcroft mechanical gauges.

**PRODUCT INFORMATION****1009 DURALIFE® CALIBRATION PROCEDURE FOR PRESSURE  
AND VACUUM RANGES**

Calibration when required for 2½" and 3½" 1009 gauges for pressure and vacuum ranges usually involves **pointer adjustment** for a simple rezero and, at times, an occasional span adjustment.

**Pointer adjustment** is accomplished using the tools in the 1205T and 1206T tool kits (see Product Information Page SS/PI-4 dated 1/19/99).

- Remove the ring and window using the wrench and nest from the 1206T tool kit by turning counterclockwise.
- Insert the slotted screw driver into the slot of the pointer hub. While holding the tail of the pointer, turn the pointer hub with the screw driver. A clockwise rotation of the screw driver on the pointer hub will result in a down scale pointer motion. A counterclockwise rotation of the screw driver on the pointer hub will result in an up scale pointer motion.
- Once the pointer has been adjusted, replace the ring and window by placing the gauge in the nest and tightening the ring snugly with the appropriate wrench from the 1206T tool kit.

**Span Adjustment**

- Remove the ring and window with the wrench and nest from the 1206T tool kit as indicated above.
- Remove pointer with handjack from the 1205T tool kit (this is a special handjack to accommodate the 1009 pinion size).
- Remove screws and dial.

See pages 2 and 3 for 1009 DURALIFE® CALIBRATION PROCEDURE – PRESSURE RANGES and 1009 DURALIFE® CALIBRATION PROCEDURE – VACUUM RANGE for steps to adjust span.

If you do not already have the 1009 tool kits, see the Stainless Steel Case Gauges and Industrial Gauges Optional Features Price Sheet. You will receive a free calibration video when ordering the tool kits. (Both must be ordered to receive the free calibration video.)