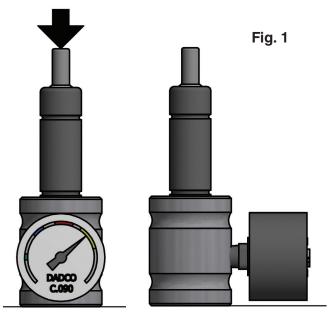
Micro and **Ultra Force**® (U.0175/U.0325) Load Cells

With a DADCO Micro Load Cell or small **Ultra Force**® Load Cell, you can check the contact force of DADCO's C.045/SL.16/E.16, C.070, C.090, C.180/E.24, C.250, U.0175, U.0325 and 90.10.00170 Nitrogen Gas Springs to quickly determine if the gas springs are charged to the desired force. To check the internal pressure of DADCO's larger gas springs, use a DADCO Standard Load Cell or a DADCO Super Compact Load Cell.



Operating Instructions

- 1. Select the appropriate DADCO Micro Load Cell or **Ultra Force**® Load Cell. Using the improper load cell will cause damage to the load cell and provide an inaccurate reading.
- 2. Place the Micro Gas Spring or **Ultra Force**® Gas Spring on top of the appropriate load cell (Fig. 1).
- 3. Place both the load cell and gas spring in a Micro Test Stand-125 (MTS-125), an arbor press or other press.
- 4. **Apply the load to the gas spring, depressing the gas spring rod only 2 mm** (1/16") (additional travel may damage the load cell) and read the gauge on the front of the load cell. The gauge reflects the contact force of the spring. Use the color-coding to identify the force requirements for Micro Gas Spring models (the reading should not exceed the end of the yellow region).



Series	Model	DADCO Load Cell
С	45	90.300.00045
SL, E	16	
С	70	90.300.00090
	90	
С	180	90.300.00180
E	24	90.300.00180
С	250	90.300.00250
90.10	170	
U	175	90.300.0175
U	325	90.300.0325

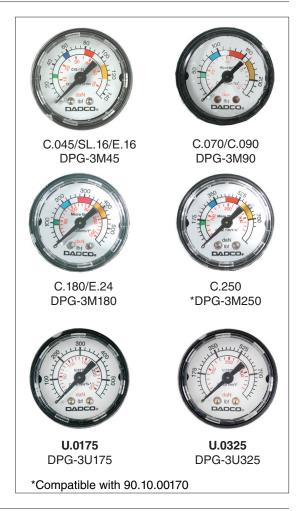
Front and side view of a yellow **Micro 180**[®] Gas Spring in testing position on top of the C.180 load cell.

Micro and **Ultra Force**® (U.0175/U.0325) Load Cells

Rebuild (Gauge Replacement) Instructions

Order the appropriate replacement gauge. For questions on which gauge to order reference DADCO's Gauge Bulletin B18110.

- 1. Remove the Flush Plug (G-109) and set aside for reassembly (Fig. 1).
- 2. Empty the oil out of the body and wipe with a lint-free cloth.
- 3. Unthread the old gauge and discard.
- 4. Apply thread seal tape to the new gauge thread. Ensure that the tape does not cover the access hole.
- 5. Thread the gauge onto the body (lettering should be right-side-up at final position).
- 6. Noting the fill line, fill the body with oil (DADCO recommends ISO 32 Hydraulic Oil until the oil level reaches the base of the flush plug (Fig. 2).
- 7. Install the Flush Plug (G-109), and watch for needle movement on the gauge, if movement occurs, stop and remove a small quantity of oil with an eye dropper. Repeat this step until flush plug is installed with no needle movement.
- 8. Test the new gauge by using it on the appropriate spring with a known pressure; see Operating Instructions on reserve side.



Figures

