

Mechanical Scale Adjustment & Calibration

Congratulations! You have just purchased the finest all-stainless steel portion control scale money can buy! Edlund scales are designed to be friction free, which ensures greater and more consistent accuracy. This friction free feature forces the pointer to oscillate more times before settling on the target weight. To compensate for this and reduce the time it takes to accurately measure portions, we added the dashpot feature that acts as a shock absorber to reduce the “bounce” and come to rest on the target weight faster.

Adjustment of Scale Dashpot

Scales featuring air dashpots are factory adjusted for correct performance. If the dashpot in your scale does not stop the pointer from cycling back and forth in less than six cycles (too loose) when the platform is depressed or released, or if the pointer returns very slowly to zero (too tight) if the platform is depressed and released, then the dashpot can be adjusted as follows:

1. Determine the model number of your scale. Most of the scales containing a dashpot have a “D” included in the model number, such as DR-2, RMD-2, DOU-2 or FMD-2. The dashpot adjustment is either located in the round cylinder located on the top of the Premier series scale housing such as the DR-2, or inside the upper right hand corner of the Four Star series or Five Star Series scales (as viewed from the back).
2. To decrease the number of times that the pointer cycles past zero when the platform is depressed and released, insert a 3/32 inch Allen wrench into the set screw located in the cylinder valve on top of the Premier Series scales, or into the set screw inside the hole in the back of the Four Star and Five Star series scales and turn it clockwise ¼ turn. Depress and release the platform and count the number of times the pointer cycles past zero. Repeat the adjustment until the number of cycles is three to four cycles. Check the scale using the calibration kit (CK-32) to make sure the scale is within the tolerance as stated in the calibration procedure.
3. To increase the number of times that the pointer cycles past zero, repeat Step #2, but turn the set screw ¼ turn counter clockwise. Repeat until the number of cycles is three to four. Check scale for accuracy.

Calibration Procedure

1. Using the knob at the center of the dial, adjust the pointer to the zero position and check this zero position by pushing the platform down and releasing two or three times. Repeat adjustment as needed until the pointer consistently returns to zero.

If your scale is in pounds and/or ounces follow Procedure A.

If your scale is in metric (grams) follow Procedure B (next page).

Procedure A. -For Models SR-2, *DR-2, SF-2, *DR34C, (LBS-OZ.)

2. Place a one-pound weight on the scale platform and record the position of the pointer. The pointer should be at the 16±1/8-ounce position.
3. If the pointer position is over the 16± 1/8-ounce positions, then the spring rate must be increased. To do this, turn the scale over and find the #8 hex head screw through the hole in the bottom of the scale. Turn the screw clockwise a small amount using a 1/4-inch nut driver. Zero the scale using the procedure in step #1 and check the pointer position-using step #2. Repeat step #3 until the pointer position is at the 16±1/8-ounce positions.

*** It may be necessary to remove the black plastic cap in the bottom of these scales in order to get to the hex head screw. ***Caution: Continued counter clockwise rotation of the #8 hex head screw may result in the disconnection of the scale spring from the scale adjusting screw. This will cause the platform to fall and require the scale to be repaired

4. If the pointer position is under the $16 \pm 1/8$ -ounce position then the spring rate must be decreased. To do this, turn the scale over and find the #8 hex head screw through the hole in the bottom of the scale. Turn the screw counter clockwise a small amount using the 1/4-inch nut driver. Zero the scale using the procedure described in step #1 and check the pointer position-using step #2. Repeat step #4 until the pointer position is at the $16 \pm 1/8$ -ounce positions

***If your kit contains a 4-ounce weight continue with the following.

5. Place a 4-ounce weight on the platform and record the position of the pointer. The pointer should be at $4 \pm 1/8$ -ounce positions. If the pointer is over the $4 \pm 1/8$ -ounce positions, repeat Step #3 for 4 oz. weight until pointer position is correct. If the pointer is under the $1/4 \pm 1/8$ -ounce position, repeat Step #4 for 4 oz. weight until pointer position is correct.
6. Check the 16-ounce position to be sure that the pointer position is still within the $16 \pm 1/8$ -ounce position.

Procedure B. – Metric models MSR-1000, *DR34C, SR-1000C (grams)

1. Place a 500-gram weight on the scale platform and record the position of the pointer. The pointer should be at the 500 ± 5 gram position.
2. If the pointer position is over the 500 ± 5 gram positions, then the spring rate must be increased. To do this, turn the scale over and find the #8 hex head screw through the hole in the bottom of the scale. Turn the screw clockwise a small amount using a 1/4-inch nut driver. Zero the scale using the procedure in step #1 and check the pointer position-using step #2. Repeat step #3 until the pointer position is at the 500 ± 5 gram positions.
3. If the pointer position is under the 500 ± 5 gram position then the spring rate must be decreased. To do this, turn the scale over and find the #8 hex head screw through the hole in the bottom of the scale. Turn the screw counter clockwise a small amount using the 1/4-inch nut driver. Zero the scale using the procedure described in step #1 and check the pointer position-using step #2. Repeat step #4 until the pointer position is at the 500 ± 5 gram positions.
3. Check the 500-gram position to be sure that the pointer position is still within the 500 ± 5 gram position.

*** It may be necessary to remove the black plastic cap in the bottom of these scales in order to get to the hex head screw. ***Caution: Continued counter clockwise rotation of the #8 hex head screw may result in the disconnection of the scale spring from the scale adjusting screw. This will cause the platform to fall and require the scale to be repaired