



AUTOSCALE INCORPORATED

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**PLEASE READ THESE ASSEMBLY AND OPERATING INSTRUCTIONS CAREFULLY
FOR USE WITH EXTRUDED RIFLE POWDER ONLY**

Your Autoscale will give you many years of trouble free use if you treat it with the same care as any other precision instrument.

Assembly of the Autoscale

A. Installing the Balance Arm

1. Remove the Autoscale case from the packing box and place it in front of you.
2. Carefully remove the balance arm from its shipping position within the powder tube.
3. Make sure that the powder pan support hook, on the right end of the balance arm, hangs down freely. The hook support should be free to swing on the pivot. Be careful not to deform the hook.
4. Move the main adjustment weight to about the 200 grain mark.
5. Carefully insert the copper damper end of the left side of the balance arm into the opening in the front of the Autoscale case. The copper damper should slip easily between the two magnets. When correctly installed the copper damper will be between the two magnets, and the support pivot with the knife edges will be resting on the two V shaped agates. The arm is a sensitive precision part and care must be taken not to deform it or to damage the support pivot knife edges.

B. Installing the Powder Pan

1. Remove the powder pan from the shipping box and place it on the support hook.
2. Set the main adjustment weight and the 0.1 grain fine adjustment weight on the balance arm to the zero position.
3. Verify that the balance arm and powder pan can swing freely: a slight breath on the powder pan should cause the balance arm to move.

C. Leveling the Autoscale

1. The Autoscale has stationary legs on the right side of the case and adjustable legs on the left side.
2. Adjust the left front leg so that the balance arm points to the zero mark.
3. Hold the right stationary legs down and adjust the left rear until the scale is stable.
4. Verify that the arm is pointing to the zero position and that the Autoscale is stable.

D. Obtaining Power

1. Insert the small connector on the end of the transformer wire into the receiver in the back side of the Autoscale case. (It is good practice to leave this connector in place in the future).
2. Insert the transformer into your home wall outlet. (Whenever you finish use of the Autoscale, remove the transformer from the wall but leave the connector in place in the Autoscale).

E. Powder Tube

1. Insert the powder tube into the top of your Autoscale.
2. Make sure that the powder tube is pressed securely in place.

YOUR AUTOSCALE IS NOW FULLY ASSEMBLED AND READY FOR USE

Operating the Autoscale

CAUTION: WHEN HANDLING GUN POWDER ALWAYS FOLLOW ALL STANDARD SAFETY INSTRUCTIONS.

1. Load the desired type of gun powder (not for use of black powder) into the powder tube.
2. Select the weight that you desire with the main adjustment weight and the 0.1 grain fine adjustment weight. Tighten the plastic retaining screw to prevent accidental resetting of the 0.1 grain weight.
3. Press the starter button on the top of the case. The fast feed barrel will start feeding powder almost immediately. The slow feed barrel, by its design to feed very accurate loads, will require a few seconds to charge for this first load.
4. The scale will stop feeding powder automatically at the correct weight.
5. Dump this first load back into the powder tube.
6. Return the powder pan to the support hook and press the restart button.
7. The slow feed barrel should continue to feed powder for at least a couple of seconds after the fast feed barrel stops. This will ensure a precise load. The adjustment knob at the left of the scale controls the shut-off point of the fast feed tube. The fast feed tube should shut off no closer than $\frac{1}{4}$ of an inch before ZERO. If the beam should happen to overshoot ZERO, you should then turn the adjustment knob counter clockwise until the slow feed tube has enough time to trickle out the proper amount of powder to ZERO out the scale. When you have set the control knob in desired position, you are now ready to load.

SUGGESTED OPERATING PRACTICE

1. The fast barrel and the slow barrel each produce a different sound so that you can monitor the operation during loading without having to watch the barrels. Listen for that couple of seconds of operation of the slow barrel after the fast barrel stops, and make adjustments with the control knob as necessary.
2. It is good practice to glance at the balance arm's final position to verify that the arm is pointing to the zero position when it stops.
3. Always remove the transformer from the wall outlet when the scale is not in use. Never connect or disconnect at the case when the transformer is plugged into the wall.
4. Some types of long grain powders may occasionally fall into the feed barrel cross ways causing the fast barrel to stop. To clear the barrel, simply rotate it gently with your fingers.
5. Any air current may affect the accuracy of the scale, so operate it away from heavy airconditioning currents, etc.
6. The balance arm and powder pan are precision balanced as an assembly. Replacing either one will require retrimming the ballast weight in the pan.
7. The Autoscale is designed to be as rugged as possible and still provide precision operation. The balance arm is delicate, and care should be made not to drop it or otherwise deform it. The two magnets inside the case may pick up stray metal chips from your bench, over the years, and may have to be cleaned with a cotton swab or other device. Care should be taken to keep your work bench clean, in order to minimize these problems and to practice normal gun powder safety.
8. The powder pan is designed for easy use by either right handed people who can use the black plastic handle or left handed people who can use the tab on the left of the pan.
9. The Autoscale can also be used as any other mechanical scale, without electric power.
10. The warranty on the Autoscale will be voided if the case cover is opened.
11. Never use oil on any part of the Autoscale. The motors and gears are designed to operate as sealed from the factory. The pivots operate dry. The pivots may be cleaned occasionally with a dry, soft, lint-free cloth.
12. When you remove the powder pan after the Autoscale stops, take care not to knock any additional powder from the barrels into the pan.
13. When you empty the powder tube make sure that you keep the barrels pointing up so that powder does not spill. After the powder tube is empty, you can easily remove the powder from the barrels by pointing them down.
14. Always practice standard gun powder safety when handling gun powder.