Dillon
Precision
Products, Inc.

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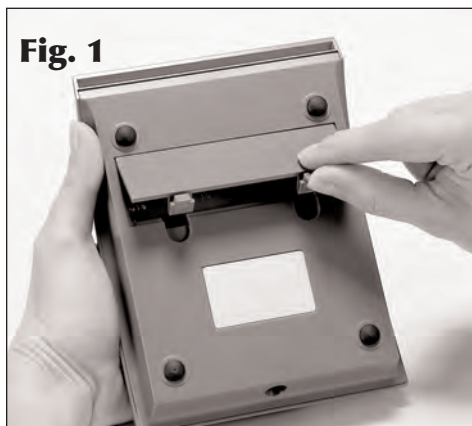# Dillon's D-Terminator Electronic Scale Instructions
May 2007

DILLON D-TERMINATOR INSTRUCTIONS

Congratulations on your selection of the Dillon D-Terminator high precision electronic scale. The D-Terminator is a highly sensitive Electronic Computerized Load Cell Scale. With many features only found in very expensive laboratory and jeweler's scales, the D-Terminator is balanced and designed for multi-purpose usage. The maximum capacity is 57 Grams or 900 Grains and the resolution is 0.01 GRAMS or 0.1 GRAINS. Features include: an anti-static draft shield, Calibration function, an overload cell protector, automatic shut-off, an audible beep when any function key is pressed, and AC or battery operation for portability and field use. No other scale on the market today provides as much value or as many quality features as the D-Terminator.

A. Battery Installation:

1. Turn the scale onto its side. Remove the battery compartment cover on the back of the scale. To do so, press the tabs to the front and tip it off. **FIG 1.**
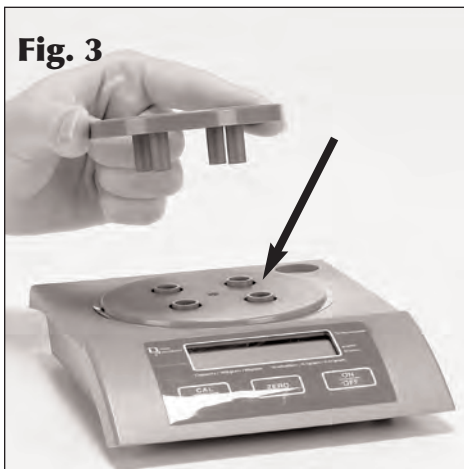

Fig. 1

2. Install the four AA batteries into the compartment and replace the cover. **FIG 2.**

Fig. 2

CAUTION: WHEN INSERTING THE BATTERIES, DO NOT APPLY PRESSURE TO THE FOUR LOAD CELL PLATE FEET ON THE TOP SIDE OF THE SCALE. THEY ARE NOT DESIGNED FOR WEIGHT EXCEEDING 57 GRAMS. **FIG 3.**

Fig. 3

B. AC Adapter/Battery Eliminator:

1. Your scale can also be operated on 120 volt AC by using the furnished AC adapter. The adapter provides six volts DC and plugs into the jack at the rear of the scale. **FIG 4.**

2. Insert the adapter plug into the socket on the rear of the scale and then

Fig. 4

Fig. 6

The scale is now on. The display will show "+88.8.8.8." and then "0.00" with a small arrow pointing to "g:gram" on the extreme right side of the display. This indicates that the scale is ready to use. The **"CAL/MODE"** key will allow you to toggle between **GRAMS** and **GRAINS** after turning the scale on, even if there is something being weighed at the time.

4. When this scale is used in any location where air movement may be a factor, the "draft shield" should be used to cover the weighing platform. **FIG 7.**
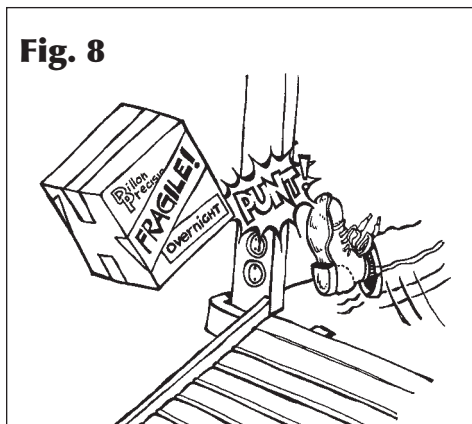
plug the adapter into an outlet. **DO NOT SUBSTITUTE AC ADAPTERS.** Only use the AC adapter provided with the scale. NOTE: Use of an AC adapter other than the one provided may damage the scale.

C. About the Scale:

1. Select a FLAT and LEVEL surface which is not subject to *vibration or air movement*.

2. A transparent, protective plastic coating has been added over the LCD display to prevent scratches during shipment. This should be removed before operation to provide a clear view of the display. **FIG 5.**

Fig. 5

3. Turn the scale on by pressing the button marked **"ON/OFF"** once **FIG 6.**

Fig. 7

This prevents inaccurate readings due to environmental influences.

This specially designed cover incorporates a grounding feature which removes any static electricity within the

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covered area. This prevents inaccurate readings due to static electricity build up. (A feature normally found only on very expensive laboratory scales).

5. This scale features an automatic shut-off after approximately three minutes of inactivity (battery power only) at which time it will shut itself off. This conserves battery power and protects the scale from being left on for prolonged periods of time when not in use.

Fig. 8

6. **FIG 8.** This scale was calibrated before shipment from the factory, but must be recalibrated before use and it must be recalibrated after every repositioning of the scale. Calibration can be affected by the following factors:

a. Handling during shipment.

b. Changes in work location.

c. Drastic changes in temperature.

D. Calibration procedure:

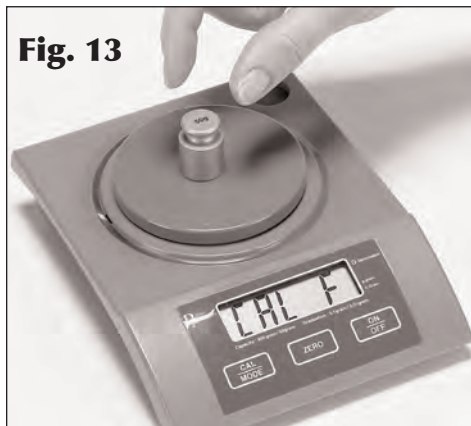1. Make sure the 50 gram calibration weight is available before proceeding. **FIG 9.**

2. If the display is not showing "0.00" gram press the **"ZERO"** key once before proceeding. **FIG 10.** The powder pan should not be on the platform. Wait for the display to show "0.00" gram.

Fig. 9

Fig. 10

Fig. 11

Fig. 12

3. Press and hold the **"CAL/MODE"** key for four seconds until the display reads **"50.00"** and begins blinking on and off **FIG 11**. Press the **"ON/OFF"** key once and the display will show

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"CAL 0" which indicates that zero point is set **FIG 12.**

4. **GENTLY** place the 50 gram calibration weight on the platform and wait until **"CAL F"** is displayed. **FIG 13. The scale is now calibrated and ready to use.** NOTE: IF **"CAL E"** APPEARS INSTEAD OF **"CAL F"** GO TO STEP 5.

Fig. 13

Remove the weight and wait for "0.00" to appear. **FIG 14.** If "0.00" does not appear, press the ZERO key to return the scale to zero. If you wish to check the calibration, replace the 50 gram weight on the platform and the display should read **"50.00"** grams.
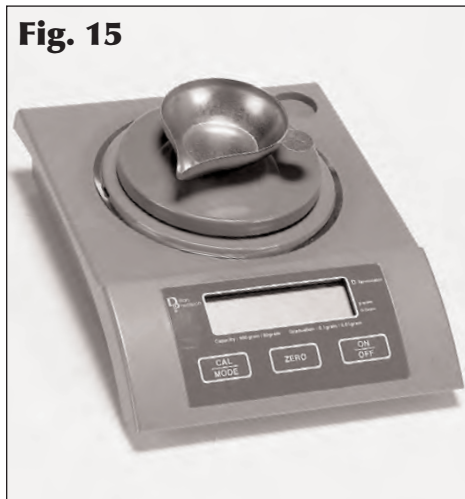
5. If the display shows **"CAL E"** it means an error has occurred during the

Fig. 14

calibration process. Repeat the process until "0.00" appears.

E. Operation of the Scale (weighing powder):

1. Place the empty pan on the scale. **FIG 15.**

Fig. 15

2. Put the draft shield in place. **FIG 16.**

Fig. 16

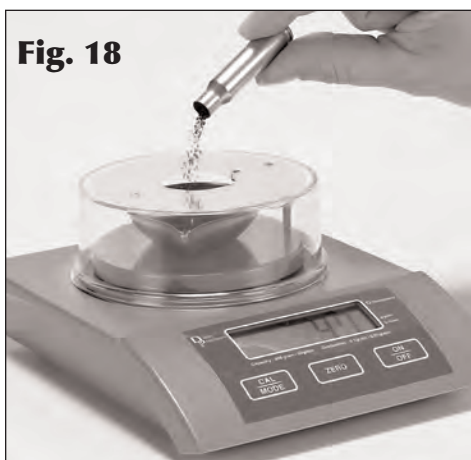3. Turn the scale on by pressing the **"ON/OFF"** button.

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Fig. 17

4. Press the **"ZERO"** button (this will "zero out" the scale). **FIG 17.**

Wait until the display reads "0.00" grams.

Press the **"ZERO"** key at any time to re-zero the scale. This is a good idea if the scale is moved during a weighing process.

At this point the scale can be used to weigh any object that will fit on the platform (within the weight range of the scale).

5. **FIG 18.** Pour the powder into the pan. Allow 4 to 5 seconds for the display to settle (because of the scales extreme sensitivity, the display may fluctuate slightly, if so, check for vibration or air movement). Read the weight

Fig. 18

on the scale.

6. Turn the scale off when you are finished.

CAUTION:

1. Place objects onto the weighing platform **VERY GENTLY**.

2. **Do Not** weigh any object which will exceed the capacity of the scale. This could permanently damage the load cell sensors. **(The scale's capacity of 900 grains is equal to about 2.0 ounces)**. The powder pan weighs about 190 grains and this must be considered.

3. Turn off the scale when not in use by pressing the **"ON/OFF"** key. This will prevent unnecessary battery drain. Also unplug both ends of the AC adapter when the scale is not in use.

4. *Always* keep the calibration weight clean. The effects of accumulated body oils and dirt can cause the calibration operation to be off by 1/10th of a gram or more.

5. *Always* keep the unit away from heat and direct sunlight.

6. The scale should be kept clean and away from moisture. Only clean with a clean dry cloth.

PACKAGE CONTENTS:

1 – Dillon D-Terminator Scale

1 – Weighing Platform

1 – Draft Shield (anti-static cover)

4 – AA batteries

1 – 50 gram Calibration Weight

1 – AC Adapter

1 – Powder Pan

TECHNICAL SUPPORT
1-800-223-4570

The D-Terminator digital scale is covered by a one-year manufacturer's warranty.

Contact Dillon Precision for technical support at: 1-800-223-4570
or FAX: 480-998-2786

For **REFUNDS** return the scale to:

Dillon Precision Products, Inc.

8009 E. Dillon's Way

Scottsdale, AZ 85260

Please note that it is necessary to first call our technical support number and obtain a RMA (Return Merchandise Authorization) number.

For warranty **REPAIR** or **REPLACEMENT**, return the scale to:

Competitive Edge Dynamics USA

P.O. Box 486

Orefield, PA 18069-0486

Additional contact information:

Competitive Edge Dynamics USA

phone: 610-366-9752

fax: 610-366-9680

email: info@CEDhk.com

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