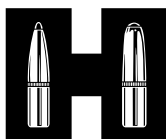


INSTRUCTIONS



Hornady[®]
Accurate. Deadly. Dependable.

AUTO CHARGE[®] PRO

No. 050053



**Scan the
code for
setup and
operation
instructional
video**

AUTO CHARGE® PRO

The Hornady® Auto Charge® Pro provides precise, customizable powder dispensing in an easy-to-use, space-saving unit. Precise to within 0.1 grains, the Auto Charge® Pro offers customizable trickle speeds for various powder types, as well as custom trickle time settings. Store settings for up to four custom loads or use the factory setting. The backlit touch screen is easy to read, while a large knob on the side simplifies powder emptying. Other features include large powder capacity, built-in bubble level and smaller footprint than competing brands.

IMPORTANT SAFETY FUNCTIONS

WARNING - Before operating the unit, please carefully read and understand this document.

- **NEVER** use with black powder – **for smokeless powder only.**
- Do not store powder in clear powder hopper for extended periods. Powder can absorb moisture from the air and/or eventually attack the plastic. Remove powder after every loading session.
- Internal components are very sensitive. Do not shake, drop, or overload unit.
- Handle unit with care, treating it as the sensitive instrument it is.
- If spilled powder gets inside unit, do not operate. Call Hornady Customer Service at 1-800-338-3220.

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POWER SUPPLY (Adapter):

Input: AC100-240V - 50Hz/60Hz

Output: DC 9V 1A

PARTS LIST

Powder Hopper Lid

Powder Hopper

LCD Touch Screen

Powder Hopper Drain

50g Calibration Weight

Draft Cover

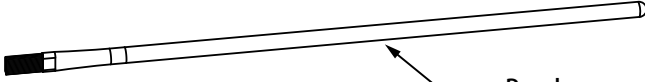
10g Calibration Weight

Scale Plate

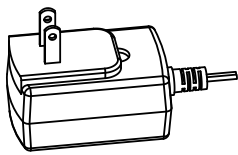
Bubble Level

Powder Pan

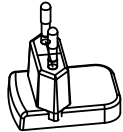
Leveling Feet



Brush



9V Power Supply
-US Plug Adapter
-EURO Plug Adapter



220V Plug Converter

SETUP

1. After unpacking the Auto Charge Pro, remove the white box from the powder hopper and confirm that the following items are included:
 - a. Powder Brush
 - b. 9V Power Supply
 - c. 220V Plug Converter
 - d. 50g Calibration Weight
 - e. 10g Calibration Weight
 - f. Scale Plate
 - g. Powder Pan



If any of the previous items were not included, please contact Hornady Customer Service at 1-800-338-3220.

2. Plug in Auto Charge Pro with the power supply that corresponds to your wall outlet. Place the 50g and 10g weights in the proper locations on the unit. Remove the draft cover and place Scale Plate onto scale. Place the brush into the designated location on the back of the powder hopper.
3. Verify that the powder drain is in the upright position such that powder will not accidentally flow out of the unit. Use the adjustable feet and bubble level to ensure that the Auto Charge Pro sits level on the surface being used.
4. Once the Auto Charge Pro setup is complete, press and hold the black power button to power the unit on. Allow the unit to stabilize for 5-15 minutes before use.

KEYPAD BUTTON FUNCTIONS

ON/ OFF (physical button): Hold button to turn on. Hold the button until the screen shuts off to power down the unit.

ZERO/CALIBRATE: Tap to zero scale. Hold for three seconds to calibrate or until the unit displays "CAL ---."

DISPENSE: Tap to begin or pause dispensing target amount. Hold the button to trickle to the Target Weight .

AUTO/MANUAL: Tap to switch from **AUTO** to **MANUAL** mode, hold to toggle back light on or off.

MANUAL – Use **DISPENSE** button to begin each dispensing cycle after pan is placed on scale. This allows partial charge to be placed on scale and Auto Charge® to finish trickling remainder of charge until Target Weight is reached.

AUTO – Dispensing cycle begins once empty pan is placed back on scale plate and scale re-zeros itself.

UNITS: Tap to select measurements in **GRAINS** (gn) or **GRAMS** (g). Hold for 6 seconds to turn button beeps off "BEEP OFF" is displayed. Complete the same process to turn the button beeps back on.

Note: This will not turn the beep off at the end of a powder charge.

ENTER: Confirms commands/entries and stores Target Weights as a custom setting.

SPEED: Sets the speed at which the unit trickles.

Units - Rotation/Minute (RPM)

Larger Number - Faster Trickling, Lower Accuracy

Example = 10.0 is the maximum speed at which the unit trickles.

Smaller Number - Slower Trickling, Higher Accuracy

Example = 0.1 is the lowest speed at which the unit trickles.

TIME: Set how many grains away from target weight the unit will begin to trickle.

Units - Grains

Larger Number - Longer Trickle Time, Higher Accuracy

Example = Using a target weight of 27.5 grains, a large number would be 20.0 grains. The unit will start to TRICKLE at 7.5 grains until it reaches 27.5 grains.

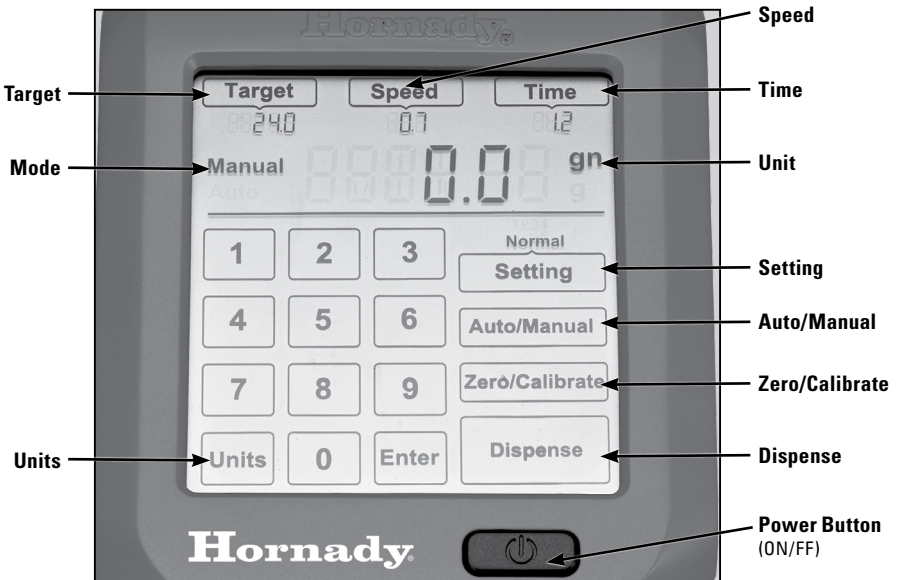
Smaller Number - Shorter Trickle Time, Lower Accuracy

Example = Using a target weight of 27.5 grains, a small number would be 0.1 grains. The unit will start to TRICKLE at 27.4 grains until it reaches 27.5 grains.

TARGET: Tap to set Target Weight in form XX.X in the preferred units.

Example = 25.7 gn

SETTING: Tap **SETTING** to toggle between Normal, 1,2,3,4. The program you are currently using is displayed above the **SETTING** button. Programs 1,2,3,4 are memory slots for any custom settings.



ENTER + 6: Touch and hold these two buttons to reset the unit to factory settings. "RF" will then be displayed. *Figure 1.*

ENTER + 8: Touch and hold these two buttons to adjust the Program setting which will increase or decrease the overall speed and accuracy of the unit depending upon which of the three settings is chosen from below.

L - (Low) - Lowest Speed, Highest Accuracy

M - (Medium) - Average Speed, Average Accuracy

H - (High) - Highest Speed, Lowest Accuracy.
(High speed is not recommended for low charge weights with Long Stick Powders, i.e. 24gn of H4831)

8: Touch and hold the number 8 on the keypad to view which program setting is currently being used (L,M,H). *Figure 2*

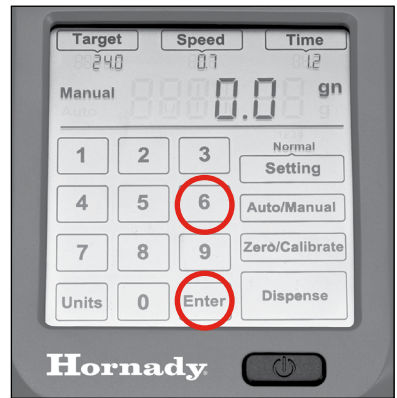


Figure 1

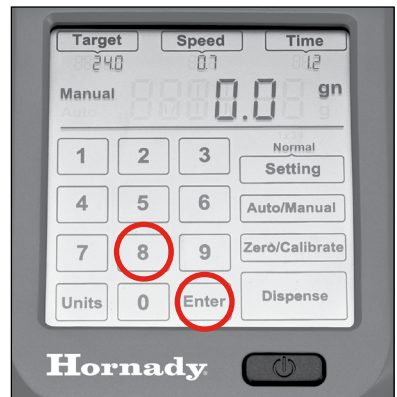


Figure 2

CALIBRATION

1. For optimal performance, turn unit on and allow 5-15 minutes to warm up.
2. Verify powder pan has been removed, and that the red scale plate is empty.
3. Hold **ZERO/CALIBRATE** button for three seconds until unit displays "CAL ---". *Figure 3.*
4. When **10.00g** is flashing, place the 10g weight on the center of the scale plate. The unit will show "----" while calibrating the 10g weight.
5. When **10.00g** appears again, remove the weight. The unit will show "----" after weight is removed.



Figure 3

- When **50.00g** is flashing, place the 50g weight on the center of the scale plate. The unit will show “-----” while calibrating the 50g weight.
- When **50.00g** appears again, remove the weight. The unit will show “-----” after weight is removed.
- The unit will briefly display “**PASS**” before returning to normal operation. *Figure 4*

Note: *If the unit does not pass, check the units, ensure the feet are level, and make sure there is no draft that would affect the scale. If the unit continues to fail, please contact Homady Customer Service at 1-800-338-3220.*



Figure 4

THROWING POWDER

- Verify unit is properly assembled with scale plate, powder pan, and clear powder hopper in place. Use the adjustable feet and bubble level to ensure that the Auto Charge Pro sits level on the surface being used.
- Press the black power button and allow the unit to stabilize for 5-15 minutes before use.
- Calibration is recommended before each use. *(See Calibration Section.)*
- Ensure powder pan is on scale and that actual weight display reads “0.0.” If not, press the **ZERO/CALIBRATE** button. *Figure 5*
- Verify that the powder hopper drain is closed. Fill the powder hopper until powder covers the dispensing tube at the bottom of the hopper. *Figure 6*



Figure 5

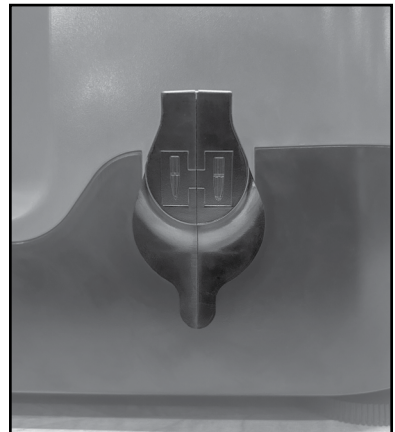


Figure 6

6. Check to be sure that **"Setting"** reads **"Normal."** (See *Keypad Button Functions Section.*)
7. Tap **UNIT** button in the bottom left corner and ensure the units are in grains (gn). (See *Keypad Button Functions Section.*)
8. Tap Target button and enter Target Weight using numerical keypad. The last number entered should be a decimal amount of charge: **(XX.X)**. Press **ENTER** to store Target Weight. (See *Keypad Button Functions Section.*) *Figure 7*

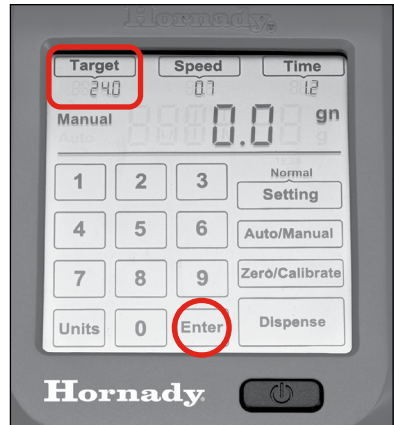


Figure 7

Example - 25.7 gn

9. Tap DISPENSE to begin dispensing powder to entered Target Weight. See *Keypad Button Functions Section.*)
10. The unit will keep track of good charges. When a good charge is dispensed, **C-XXX** will display on the screen. *Figure 8*
Example - C=017



Figure 8

11. You can now use the **MANUAL/AUTO** button to manually dispense powder or have the unit throw powder automatically when the Scale Plate is returned to the scale. (See *Keypad Button Functions Section.*)

Should dispensed charge be greater than 0.1 of a grain above targeted amount, **"OVER"** will be displayed. Press **ENTER** to remove **"OVER"** warning. Then dump charge into powder hopper and re-dispense. Do not use **"OVER"** charges. *Figure 9*



Figure 9

CUSTOM SETTINGS

The speed Range 0.1 – 10.0 should be read as Rotation Angle is $12^\circ/\text{Time} - 120^\circ/\text{Time}$

SPEED	TRICKLER TIMES / CYCLE	TRICKLING RANGE / TIME	ONE CYCLE TIME	TRICKLER TIME / SECOND
0	30 Times	12°	12 seconds	0.4s / Time
9.9	3 Times	120°	1.5 seconds	0.5s / Time

Setting the trickle speed uses the RPM of the machine and can be controlled using the L, M, H settings.

L = 120 rpm

M = 160 rpm

H = 210 rpm

Time is actually being used as “Timer” to control when the trickling brakes and stop high-speed trickling. For example, if the Target is set at 24gn while the Time is 1.2, trickling will break when the powder weight hit $24 - 1.2 = 22.8\text{gn}$.

When it hits 22.8gn, the machine will start the slow trickling process controlled by Speed. The default Speed is 0.7. We can set the Speed from 0.1 - 10.0 to control the very last trickling time/process. And when the weight hits 24gn, the machine stops trickling.

TIPS TO IMPROVE PERFORMANCE

- Fluctuations in temperature, even of a few degrees, can cause scale readings to vary. While scale can be used immediately, optimal performance will occur after unit has warmed up for 5-15 minutes.
- Always place the scale on a flat, level, and stable surface when in operation. Use adjustable feet to ensure the unit is level.
- Electrical interference can cause scale readings to vary. Keep other electronic devices (power strips, florescent lights, motors, radios, phones, etc.) away from scale when in operation.
- Do not let a fan, air conditioner, heater, or open window blow on scale. This can cause fluctuations in the scale readings.
- Using clear cover over powder pan will improve accuracy and lessen effects of outside variables.

CLEANING

It is very important that the powder is cleaned out of the Auto Charge Pro after each use. The Auto Charge Pro should not be used as a powder storage device. To easily clean out the unit perform the following steps.

1. Slide Auto Charge to the edge of a table, with the Powder Empty Spout hanging over the edge of the table. *Figure 10*
2. Hold the proper powder container below the Powder Empty Spout, and slowly rotate the spout so that the powder will dump into the container. *Figure 11*
3. Once the powder has been emptied out of the hopper, close the powder empty spout. *Figure 12*
4. Place the powder pan on the Auto Charge as if a charge is going to be thrown. *Figure 13*



Figure 10



Figure 11

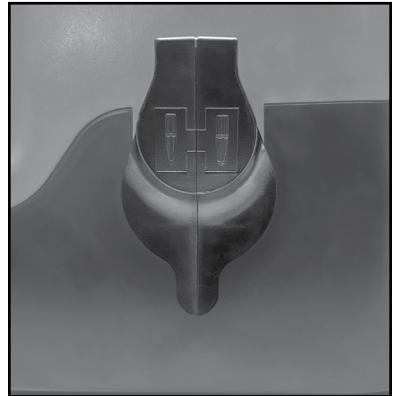


Figure 12

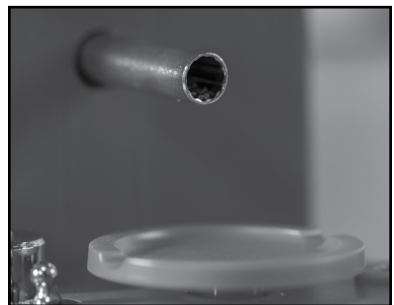


Figure 13

WARRANTY

All Hornady® reloading tools and accessories are warranted against material defects and workmanship.

Hornady electronic components are covered by a one-year warranty from the date of purchase.

This warranty is void if the product (1) has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in material or workmanship; or (2) has been altered or repairs have been made or attempted by other than authorized factory personnel; (3) is used commercially; or (4) has been altered or defaced in any way.

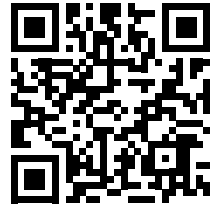
This warranty supersedes all other warranties for Hornady® products either written or oral. No other warranty is expressed or implied.

PRODUCT REGISTRATION AND SERVICE

You must register your product to obtain Warranty Service. Complete the registration form at hornady.com/warranties.

TO RECEIVE WARRANTY SERVICE

To report a warranty claim, call Hornady® at 800-338-3220 to request a return authorization number. Returns will not be accepted without prior return authorization by Hornady®.



Scan to register your product to receive the full benefit of its warranty.

POST-WARRANTY SERVICE INFORMATION

For issues concerning service after the Limited Warranty expires, contact Hornady® at 800-338-3220.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Hornady Manufacturing Company

P.O. Box 1848, Grand Island, NE 68802-1848

hornady.com/contact