Lyman®
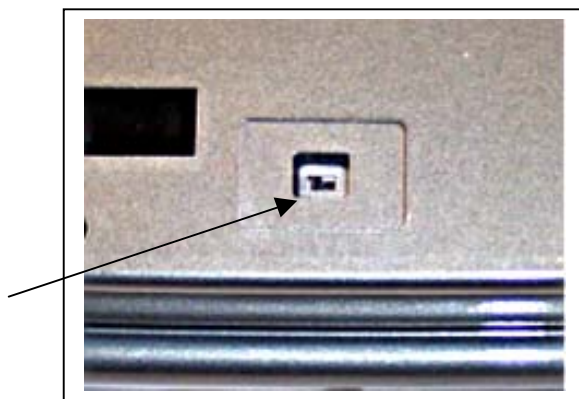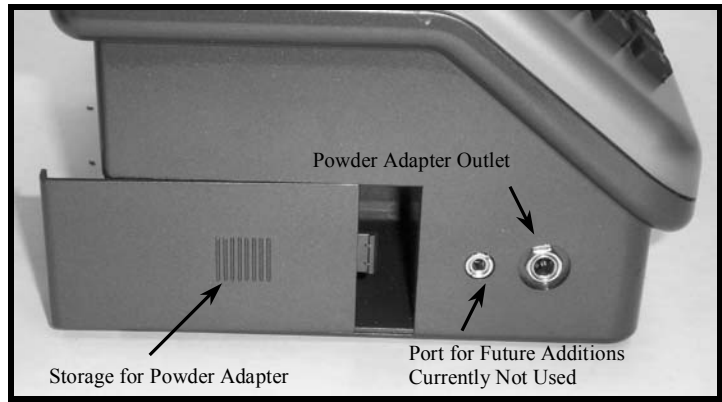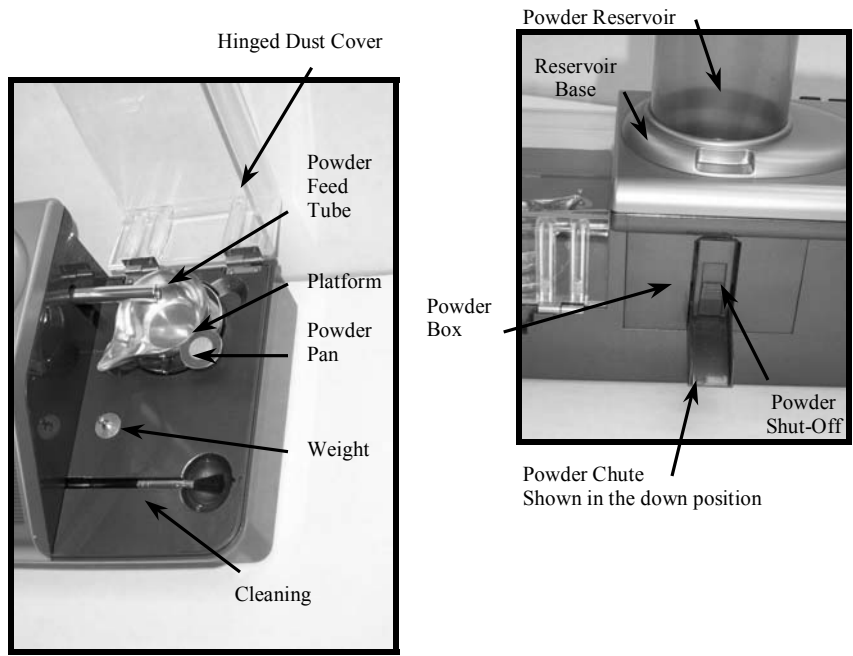
1200 DPS
Programmable
Digital Powder System

WARNINGS AND CAUTIONS:

- If the 1200 DPS does not read zero on the display, ***DO NOT DISPENSE POWDER.*** The scale must be zeroed before use. If powder is dispensed with a scale that does not read zero, the charge will not be correct and could be dangerous.

- Be careful not be get powder between the platform and the scale body. This can affect scale readings. If powder does drop into this area, carefully remove it with the supplied brush. *Do not attempt to remove the platform*.

- Slide switch on underside of unit is to set the (Hz). This is factory preset for domestic models and should not need to be changed. Should you have a problem with your scale, make sure the switch is set to match the input voltage on the power adapter. Domestic 115V is 60 Hz and 220V is 50Hz.

Hinged Dust Cover

Powder
Feed
Tube

Platform

Powder
Pan

Weight

Cleaning

Powder Reservoir

Reservoir
Base

Powder
Box

Powder
Shut-Off

Powder Chute
Shown in the down position

Powder Adapter Outlet

Storage for Powder Adapter

Port for Future Additions
Currently Not Used

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Congratulations on your purchase of the Lyman *1200 DPS* (Digital Powder System). This is a precision piece of equipment and should be handled with care. Before using the 1200 DPS Powder Dispenser, please read these instructions fully and become familiar with the key pads and other operating features listed in the diagrams. If you have read the instructions and you still do not understand some of the operations, call us at 1-800-22-LYMAN except AK, HI, CT and foreign, who may call 860-632-2020. This operation manual should be kept with the 1200 DPS at all times for easy reference.

Introduction

Your New 1200 DPS (digital powder system) is the state of the art in reloading technology. It is the fastest powder dispenser available and contains a programmable memory to store and recall all of your favorite loads quickly and easily.

A. Set-Up

1. Select a location for the 1200 DPS that is level and stable. It is recommended that the 1200 DPS be located away from a loading bench equipped with a reloading press. Most benches are not heavy enough to prevent vibrations being transferred to the scale. The scale should also be away from any source of air currents. The 1200 DPS is sensitive enough to have readings affected by any of these conditions.
2. Plug the power adapter into a wall outlet and connect it to the dispenser. Install the powder reservoir tube by pressing it into the top of the unit above the feed tube.
3. Remove end cap from powder feed tube.

B. Warm-Up and ON/OFF

1. Press the ON/OFF button to turn on the 1200 DPS.

2. The 1200 DPS is equipped with an automatic 30-minute warm-up feature. This feature allows the precise electronics time to stabilize. The LCD display will alternate between warm-up and a count down clock. In the warm-up mode, the scale, powder dispenser and calibration features will be blocked, however, the user can still enter settings into the memory as well as recall and edit existing memory. We recommend that the scale be allowed to fully warm-up before use to ensure the highest accuracy level. If this is not possible, the warm-up mode can be cancelled by pressing the CANCEL button. This will allow full access to all of the 1200 DPS functions, however, accuracy could be slightly reduced until full warm-up is reached.

3. To turn off the 1200 DPS, **press and hold** the ON/OFF button. The 1200 DPS will return to the warm-up mode if the power is shutoff for any length of time. *Always turn off the 1200 DPS using the ON/OFF button first, and then unplug the power transformer.*

C. Calibration

1. After warm-up (or if cancel is pressed to exit warm-up) the unit will be in Scale and Dispense mode. We recommend that the scale be calibrated before use. This should be done **without** the powder pan on the platform.
2. Press the CAL/ZERO button to reset the scale to zero.
3. **Press** and **hold** the CAL/ZERO button. The LCD will display "Cal 20g".
4. Place the 20 gram weight onto the platform and press the CAL/ZERO button again. **(Press and Release – Do Not Hold)**
5. The LCD will display **0.0** Remove the 20 gram weight. The LCD will display **approximately -308.6.**
6. Press CAL/ZERO one more time to reset zero.

D. Scale and Dispense Mode

1. The scale and dispenser are now active. Place the powder pan onto the platform and press the **CAL/ZERO** button to zero the scale.

2. Place the desired smokeless powder **(black powder or Pyrodex should *NEVER* be used)** into the powder reservoir.

3. The scale will read in grains (default) unless changed. To select the weighing unit desired, press the **UNIT** button to select the appropriate grains, grams or ounces.

4. Key in the desired charge weight using the keypad. If you make a mistake press the **CANCEL** button to clear the complete charge weight or press **BACKSPACE** to clear the last digit. While the desired charge weight is displayed, press the **ENTER** button to dispense powder. The dispenser will stop automatically when the selected charge weight is reached. We recommend that the first several charges be placed back into the reservoir. This allows the 1200 DPS to fully stabilize and fill the charge tube with powder. After a charge is dispensed, the LCD will display **"CT=001"** indicating the first charge for 2 seconds. This is a count of the number of charges that have been dispensed.

5. Press the **ENTER** button again to dispense another charge at the selected weight in memory.

6. To pause the dispenser while a charge is being dropped, press the **ENTER** button. Press the **ENTER** button again to resume charging.

7. The dispenser will continue to drop the selected weight until it is changed. To change the selected weight, key in a new weight on the keypad and press the **ENTER** button. The dispenser will drop the new selected charge weight.

D-2 Manual - Trickle Mode

To manually dispense a charge, press and hold the **FAST** button. The dispenser will run the feed tube at high speed until the button is released. Press and hold the **TRICKLE** button to

run the dispenser at low speed. The feed tube will turn slowly until the button is released.

D-3 Auto - Trickle Mode

You can speed up the dispensing process by adding powder to the powder pan and then bring it up to the selected weight by pressing the ENTER button. By utilizing a powder measure to add almost all the powder to the powder pan and using the dispenser to automatically finish trickling to the exact weight, the dispensing time will decrease considerably.

E. Storing New Memory

The 1200 DPS will store up to 20 of your favorite loads in memory. Each load in memory has three input lines.

Cartridge Name	C=___
Powder Type	P=___
Weight of Powder	W 0.0

A load is not stored in memory until all three input lines have been completed and the enter button pushed after the weight is input. To edit input mistakes made during entry, the BACK SPACE button will remove the last character entered or pushing the CANCEL button will erase the entire line.

To store loads in memory:

1. Press the NEW MEM button. The LCD will display "Mem=01" indicating the first memory position.
2. Press the ENTER button. The LCD will flash "CART", (cartridge) then display "C=_"
3. Enter the name of the cartridge using the cell phone type keypad. Pressing the same key repeatedly will change the letters or number represented by that key. When the proper number or letter is present, wait several seconds and the display will shift to the next space. When the name is

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displayed, press the **ENTER** button. **The CANCEL , or BACK SPACE can be used for editing the input line**.

4. The LCD will flash "POWD", then display "P=_". Enter the name of the powder and press the **ENTER** button.
5. The LCD will flash "WGHT", then display "W 0.0 gn".
6. Use the **UNIT** button, if necessary, to change to grams or ounces.
7. Enter the charge weight and press the **ENTER** button.
8. The load is saved. The LCD will now display "MEM=02" indicating the second memory position, to prompt the user for the next entry. Enter the next load into memory as described above.
9. Press the **CAL/ZERO** button to exit the memory mode.

F. Recall A Load From Memory

1. Press the **RECALL** button. The LCD will display "C=_ _ _ _".
2. Press the **RECALL** button again and the LCD will display the first cartridge in the memory. Press the **ENTER** button to select this cartridge. The LCD will scroll through the information stored for this cartridge. Press the **ENTER** button again to dispense this load. **WARNING: Be sure that the correct powder is in the reservoir.**
3. To scroll through the other loads in memory press the **RECALL** button repeatedly. The **FAST** button and the **TRICKLE** button can also be used to scroll through the memory. Pressing the **FAST** button will move the display to the next memory location and pressing the **TRICKLE** button will move the display to the previous location.
4. Press the **CAL/ZERO** button to exit from memory and return to the standard Scale and Dispense mode.

G. Recall Memory Using A Cartridge Name
1. To recall a load in memory using the cartridge name, press the **RECALL** button. The LCD will display "C=_ _ _ _".

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2. Key in the name of the cartridge using the keypad and press the **ENTER** button. The LCD will display the cartridge and the scroll through the load information. If more than one cartridge is stored in memory using the same cartridge name, the first one stored will be displayed.
3. To dispense this load, press the **ENTER** button again. **WARNING: Be sure that the correct powder is in the reservoir.**
4. Follow steps discussed in F (3) to select other cartridges.
5. Press the **CAL/ZERO** button to exit from memory and return to the standard Scale and Dispense mode.

H. Recall Memory Using a Memory Location Number

The 1200 DPS will store 20 loads in memory. Each load is automatically assigned a number from 1 to 20. It may be faster to locate a load by using its memory location number.
1. Press the **RECALL** button and the LCD will display "C=_ _ _ _".
2. Press the **·/MEM#** button (on the keypad) and the LCD will display "MEM=01" the first memory position.
3. Key in the memory location number and press the **ENTER** button. The LCD will display the cartridge stored at that memory number and scroll through the load information.
4. If the selected load is not correct, press the **·/MEM#** button again (after step 3) to choose a new memory location number.
5. Press the **ENTER** button to dispense this load. **WARNING: Be sure that the correct powder is in the reservoir.**

I. Edit Memory

1. Follow steps discussed in F,G, or H to select a load in memory that you want to edit.
2. Press the **EDIT MEM** button to edit the cartridge name, powder or weight.

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3. Press the **ENTER** button to move from cartridge name to powder to weight.
4. Press the **CANCEL** button to clear the entire entry or press the **BACKSPACE** button to clear the last number or letter.
5. Enter the new information as needed. Press the **ENTER** button repeatedly until the next cartridge name appears.
6. Press the **CAL/ZERO** button to exit from memory and return to the standard Scale and Dispense mode.

J. Delete Memory

1. Follow steps discussed in F, G or H to select a load in memory.
2. Press and hold the **CANCEL** button to delete the selected load in memory. The LCD will display the next memory entry.
3. Press the **CAL/ZERO** button to exit from memory and return to the standard Scale and Dispense mode. **NOTE: The memory location vacated by deleting a load will remain open until a new load is entered into memory at this location. This is to keep the other memory locations the same. They will not shift up one location.**

Cleaning The 1200 DPS

Caution: Do not turn unit upside down and shake as this could harm the load cell.
The cleaning procedure listed below may seem difficult, but after you become familiar with the dispenser it is relatively easy. The 1200 DPS was designed to be sufficiently disassembled for thorough cleaning

The 1200 DPS must be cleaned after use or when changing the type of powder. It is **Strongly** recommended that powder **NOT** be left in the powder dispenser when finished loading or when putting it away as you may forget what

kind of powder was used last. **This is extremely dangerous**. To begin cleaning the dispenser, lower the powder cleaning chute on the rear panel behind the powder reservoir. Be certain that you have a container under the chute to catch all the powder from the reservoir and powder box. Lift the powder shut-off door to allow the powder to flow out. The cleaning brush can be used to remove any remaining powder. When empty, remove the reservoir tube and reservoir base by sliding the latch on top of the Dispenser to the left. Then lift the reservoir base up and out. Place the rubber cap on the end of powder tube to prevent powder spillage. Powder feed tube can be easily removed by inserting J shaped rod in small hole in the motor coupling as shown in *Figure A*. Then unscrew powder-dispensing tube by turning in counter clockwise direction. Be careful to catch any remaining powder that may still be in the tube. Now with the powder chute closed, press in the powder box from the back and release it. The box will pop out slightly for easy removal and cleaning. To reassemble the dispenser, push the powder box back in until it clicks in, slide the powder tube back through the bushings in the powder box and screw it to the motor shaft until finger tight. Place looped end of J shaped rod under motor coupling to assist in aligning the powder feed tube to the coupling threads. *See Figure B*. Snap the reservoir base back inside the powder box and lock in with the sliding latch. Reinstall the reservoir tube.
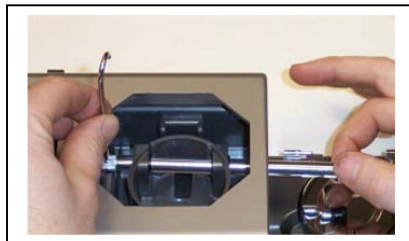

Figure A   **Figure B**

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Suggestions/Tips

1. If exposed to a sudden change in temperature, allow the 1200 DPS 30 minutes to stabilize to the new location before use.
2. The hinged dust cover can be tilted back for ease of use. If lowered into place during use, however, it will prevent any air drafts from affecting the accuracy of the scale. The dust cover can also be slid off the hinges and removed if needed. We recommend storing the 1200 DPS with the dust cover on and covering the platform as added protection to prevent anything from hitting the platform and damaging the load cell.
3. The 1200 DPS has a drift warning. If anything causes the readings to drift over 0.3 grains, the scale will beep. The scale should be re-zeroed by pressing the **CAL/ZERO** button.

1200 DPS Load Sheet

Cartridge	Load Number	Powder Type	Powder Weight	Primer Bullet	Comments