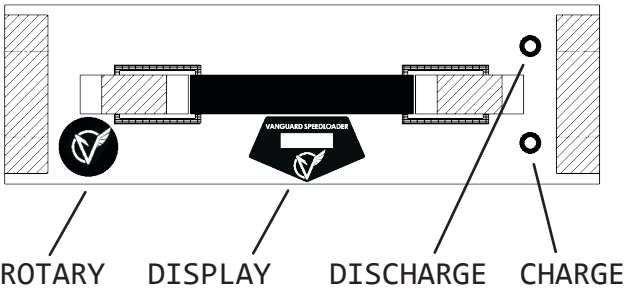


Vanguard Speedloader

User manual

The Vanguard Speedloader is easily operated with a rotary knob and oled-display. Make sure the battery is charged and connected. Then turn on the Speedloader by pushing the knob once. The start-up screen is shown and the battery status is displayed. After, you are in the menu.



Rotate the knob to scroll through the menu. When the system is locked, indicated by the lock symbols, it can be unlocked by navigating the menu to "UNLOCK" and press once. Now the device is ready to use.



Scroll up, to select a preset. To change the preset value, press and hold the knob until the value is highlighted. Rotate the knob to set the desired value. Press once to confirm or hold to reset to the previous value.



To load a magazine, ensure it's empty and, if necessary, put it on the discharge tube (red). Then place the magazine on the output tube (black) and hold it securely in place. Choose the desired preset and press once to start loading. The screen will count down the exact amount of BBs and stop automatically when it reaches zero. Loading can be canceled at any time by pressing the knob again.



We recommend loading a few BBs less than the capacity of the magazine. This will greatly extend the lifespan of your magazines.

When you are ready to store the Speedloader, it is recommended to put it in "Lock" mode. Do this by scrolling to the "SLEEP/LOCK" item, then press and hold the knob to lock.



The device will enter sleep mode after 5 minutes of idleness or can be put to sleep manually via the "SLEEP/LOCK" item by pressing the knob once. From sleep, the device can be woken up by pressing the knob and is immediately ready to use. After one hour, the device will automatically enter a locked state.

Vanguard Speedloader

PRO Features



The Vanguard Speedloader PRO is quite with an options menu item. When selected and entered you get the following menu options; **SETTINGS**, **EXTRA** and **INFO**.

OPTIONS
SLEEP/LOCK

Settings are easily changed the same way presets are changed. Press and hold, change its value, and press once to confirm.

SETTINGS menu items:

POWER **POWER** **80%**
STATS **STATS** **OFF**

This setting allows you to adjust the power pressure limit the Speedloader is pumping with. When this limit is reached, the motor stops and triggers a pressure limit message. This limit is intended to save your magazine from breaking. You can lower this setting if you use, for example, a shotgun shell where the pressure of its spring is limited, or if you use mid-caps that are prone to damage when overcharged. In some rare cases, you can raise the pressure limit, for example, when charging GBB mags that have high friction when charging them in combination with our GBB adapter. We recommend using the Speedloader at 80% power pressure and using higher pressure limits at your own risk.

STATS **POWER** **80%**
STATS **STATS** **ON**

If you are a geek like us, you want to see statistics all the time. Enable the stats menu item to get speed and pressure values on the main screen when charging your mag.

36 **25** **84**
18 **18**
SPEED (BB/s)
POWER (%)

KEYCODE **STATS** **OFF**
KEYCODE **KEYCODE** ********

To prevent unauthorized use of the Vanguard Speedloader, you can set a keycode that will be asked for when unlocking the device. Simply scroll its value to the desirable number, choosing any number from 1 to 9999. For example, if you enter 12, when unlocking the device, you need to enter 1 and then 2. If you set it to 321, you need to enter 3, 2, 1. Setting the value to 0 will disable the keycode feature.

STATS **OFF**
KEYCODE **KEYCODE** **321**

Caution! Remember the number you set in this menu item. It needs to be entered when unlocking the device next time. However, there is a way to unlock the device without the key. To do this, turn on the Speedloader by pressing once. The display will light up. You need to keep it on by pressing or scrolling for at least 30 minutes. After that time, you can scroll to the UNLOCK item and unlock it without the keycode. Then enter this menu item again to reset it to 0 or see where it was set to.

EXTRA menu items:

PRESET X **PRESET X** **5K**
REVERSE **REVERSE**

If you have a special occasion where more than 1000 BBs need to be pumped in, or you want to test something, you can use Preset X. Its value will be multiplied by 1000. By default, it is set to 5K, meaning it will count 5000 BBs. Press the menu item once to start filling the set amount.

REVERSE **REVERSE**
REVERSE

If something gets stuck in the machine, for example, when something falls in or a BB cracks, you can reverse the pump mechanism via this menu item. Press the item once to start reversing it for a few seconds.

INFO menu items:

TOTAL **TOTAL** 16K
COUNTER **COUNTER** 0

This value indicates the total amount of BBs the Speedloader has pumped over its lifespan. The value is not resettable.

COUNTER **TOTAL** 573
COUNTER **COUNTER** 0

This is a counter you can freely use to track its usage over a specific time. For example, if you like to know how many BBs you use in one game day, reset it at the beginning of the day and check it at the end of the day. Resetting the value is done by pressing and holding the knob at this menu item.

ERRORS **COUNTER** 0
ERRORS **ERRORS** 0

The Vanguard Speedloader Pro is equipped with a BB sensor in the form of a microswitch. Although the switch is very basic, it is effectively used by the microcontroller that reads its state. With advanced software algorithms, this sensor is monitored 1000 times a second. This makes counting the BBs very reliable and precise, even when the microswitch gets dirty or worn out. Of course, there will be a limit to this. When the software detects bad counts from the switch, it will keep track of these bad occurrences by adding them to the error counter. Once the error counter reaches 10000, a service message will be displayed when you turn the device on. You can reset its value to 0 by pressing and holding the knob. But be warned that the precision of counting BBs might be compromised.

VERSION **ERRORS** 0 → **i** v3.0 **OK**
VERSION **VERSION**

When pressing on this menu item, you will see the firmware version and be able to compare it to other units. We might need this information when you request service.

Caution! All settings included the presets are saved only when the unit gets locked. Displugging the battery while the unit is not locked (turned off) will reset all the values to the previous saved state.

Messages

PRESSURE LIMIT is shown when the magazine is loaded with too much force. The Speedloader has stopped automatically to prevent damage. This occurs when the magazine was not completely empty or its maximum capacity was reached. Check both and try again by pressing once and resetting the notification.

RUNOUT OF BBS is shown when no BB's are supplied to the pump. Check if there are enough bb's available in the ammo box and press once to reset the notification.

SERVICE NEEDED (PRO Only)

When you turn on the Vanguard Speedloader and see the Service Needed message, the device has reached the 10M total counter or the 10K errors counter. The errors counter is resettable; the total counter is not. We advise you to let the unit get serviced when this amount of BBs has been pumped.