Pro Line Three Wheel Pitching Machine
Owner's Manual
CAUTIONS

● This machine is not a toy! Use under adult supervision only.

● Machine will throw balls and strikes- batters must stay alert and always wear a helmet.

● Use only regulation sports balls, or balls specifically designed for machine use.

● Use a grounded (3 prong) outlet only. Use a GFCI outlet when machine is operated outdoors. Do not use the machine in wet conditions.

● Do not store the machine with the urethane wheel tread compressed against the ground. Flat spots will develop.

● Machine operator (person feeding balls into machine) should stay behind a protective screen.

FAST, FREE, FRIENDLY HELP

Rawlings® Pro Line pitching machines are designed, manufactured, sold, serviced, and supported by Spinball Sports LLC. For assistance assembling or using your machine, please view our videos online at www.spinballsports.com, call us at 618-244-4587, or email us at info@spinballsports.com.

ASSEMBLY & SETUP

REMOVE MACHINE FROM BOX   Lift the machine out of the box and place it flat on the ground or floor with the control panel facing up. The machine is heavy and this process is much easier with two people.

LEGGS  Slide the back two legs into the sockets on the tripod base until the spring loaded buttons pop up. See Figure 1. Lift the machine up, pivoting it on the back two legs, and install the front leg - Figure 2. Again, this operation is much easier with two people.

BALL FEED RAMP  Combination machines include two interchangeable ball ramps. Use the smaller ramp for baseballs, tennis balls, or cricket balls, and the larger ramp for softballs. The ramps are installed using (2) hex nuts and flat washers, which are shipped pre-installed on the ramp’s support bracket. See Figure 3.
Figure 1: Install back two legs

Figure 2: Install front leg
Figure 3: Ball feed ramp installation

Figure 4: Transport wheel installation
TRANSPORT WHEEL INSTALLATION  The transport wheel sub-assemblies attach to the frame with (2) screws, washers, and hex nuts each. This hardware is pre-installed in the transport wheel sub-assembly. See Figure 4. Installing the transport wheels is optional.

MOTOR / WHEEL POSITION  The gap between wheels is a critical adjustment to maximize pitch speed and accuracy. The optimal distance between wheels depends on the size and compressibility of the ball being used. Softer, more compressible balls require a smaller gap than harder balls do. And of course, softballs require a much larger gap than baseballs. Too small of a gap will slow the wheels noticeably when pitches are thrown, producing a loud “thunk”. Too large of a gap will not generate enough squeezing force on the ball, and pitches will be too slow, without enough spin.

As a general rule, when the gap is correct, you should be able to feed a ball through an unpowered machine by rotating the wheels by hand with a moderate effort.

Each motor & wheel assembly has two profiled blocks that interlock with profiled pockets in the frame. There are 11 possible locations. By counting the number of empty notches on either side of the blocks, you can quickly and precisely locate each of the wheels. See Figures 5 and 6 for the typical positioning for real baseballs and softballs. For baseball, the blocks are in the center position, with 5 empty notches on each side of the block. For softball, the blocks are located at the outermost position, with all 10 empty notches on the inside. Each wheel and motor assembly should be moved one step inward from these locations when using soft dimpled balls, creating a tighter grip on the compressible ball.

The wheels are moved by loosening or removing the clamping knob that holds each motor to the frame. Be sure to support the motor / wheel assembly when removing the knobs – do not let the motor fall or hang by its cord. Reposition the motor & wheel assembly as desired, then re-tighten the clamping knob.

The positions shown in Figures 5 & 6 are just starting points and may require adjustment for optimal performance. Each motor does not need to be set at the same distance from center, but they should not be more than one setting apart.

Feel free to experiment and deviate from these suggestions to determine the optimal wheel gap for your situation. For example, cold weather will cause both the balls and wheels to harden, requiring a larger wheel gap than when the same machine is used in hot weather. Also, once the wheels begin to wear, they will need to be moved closer together to compensate.
**OPERATION**

**PITCH SELECTION**  Pitches are selected by directly setting the pitch speed, spin direction, and spin amount on the control panel. The machine uses these inputs to automatically adjust the individual wheel speeds required to generate the selected pitch speed and ball spin. You will still need to aim the machine using the two knobs on the front of the machine.
The speed display can be set to show speeds in either miles per hour (mph) or kilometers per hour (kph). Because softballs are heavier than baseballs, they are thrown at slower speeds. The baseball / softball selector accounts for this difference by displaying a slower speed in softball mode. Neither the mph / kph or the bb / sb selector affects the actual wheel speed - they just cause the correct speed to be displayed.

While the pitch speed can reach 100 mph or 160 kph, the speed display only has two digits. When the wheel speed exceeds 99, a dot is displayed in the upper left hand corner to show the display has cycled (*00 is actually 100.)

Thrown balls tend to curve in the same direction as the spin, and the greater the spin, the greater the amount of curve. By adjusting the direction and amount of spin, you also adjust the direction and amount of curve. See Figures 8 and 9 for the spin directions of various pitches.

The ball doesn't curve in exactly the same direction as its spin because gravity always causes the ball to drop. For example, an overhand fastball with pure backspin (spin direction: up) won't actually curve upward, but it will drop less than it would have without spin. A ball with horizontal spin will both curve sideways from the spin and drop from gravity, resulting in a diagonal break.

Pitches with no spin are knuckleballs and move randomly, but they usually have some sort of drop. When the machine is set for no spin, the spin direction setting has no effect.

The wheels have no brakes. If you change the pitch setting and one or
more wheels has to slow down to reach the new setting, it will take time for the wheel to coast down to the new set speed on its own. The coasting time is usually less than a minute and can be reduced by throwing a few pitches to slow the wheel down.

**ADJUSTING MACHINE ORIENTATION** The machine is aimed by rotating the two knobs on the front of the machine. The top knob controls the vertical aim and the bottom one controls the horizontal.
Thirty degrees of rotation of either knob is roughly equal to one foot of pitch location at the plate 60 feet away. The gear train used to adjust the machine can't be back-driven, so the machine can't be adjusted by forcing the frame into position.

**POWERING UP** When the machine is first powered up, the pitch speed defaults to zero, but the spin amount defaults to medium. This prevents the common mistake of accidentally throwing knuckleballs (no spin).

Pitch speeds are adjusted using the arrow buttons below the speed display. There is a jump between 0 and 40 mph for baseball (0 and 36 mph for softball) to allow quicker adjustments. Holding a button down will cause the speed to change in steps of 5.

**ACCURACY** The primary factor behind pitch accuracy is the consistency of the balls. While you can use many types of balls (real or dimpled, high or low seam, compressible or hard) you can not mix them in one setup and get consistent results. They must be dry and in good condition. Dimpled machine balls will be more accurate than leather baseballs, especially after use. Softer balls tend to be more accurate than harder balls because the wheels grip them better. Lower seams are better than high seams and cause less wear. The more consistent the balls are, the more consistent the pitches will be.

Another key factor is the distance between wheels - see Motor / Wheel Position earlier in this manual for a full discussion.

A third factor is the cleanliness of the wheels. After use, especially with new balls (both dimpled and laced), the wheels can accumulate a residue from the balls. The residue is slick and prevents the wheel from grabbing the ball sufficiently. The wheels can be cleaned with solvent cleaners such as MEK, acetone, or lacquer thinner, along with sandpaper.

Cheap synthetic leather baseballs wear quickly and leave excessive residue, so we strongly recommend against their use. This includes the Wilson A1010S. (Apparently the ‘S’ stands for synthetic.)

Jugs Pearl® baseballs will not give good results in our machines. They are much slicker than standard baseballs, presumably to reduce wear, but it also hurts accuracy.

**SPEED DISPLAY ACCURACY** The speed displays are very close to actual pitch speeds, but they are not exact. There is no economical way to compensate for the different types, weights, and
conditions of the variety of balls that might be used. The speed settings are, however, very consistent and repeatable, so that once a machine is set, it will deliver consistent speed and accuracy.

MISCELLANEOUS

MAINTENANCE  If stored outdoors, always keep the machine covered to protect it from rain. Tarps are available at any local hardware store, but even a large black trash bag will work. Do not leave the machine outside during storms. High winds can blow the machine over and damage the wheels and/or motor shafts. This is not normal use, and is therefore not covered by warranty. Ball residue may be cleaned from the wheel tread with sandpaper and/or a solvent cleaner such as lacquer thinner, acetone, or MEK.

WARRANTY  If your machine doesn't perform like you expect, please contact Spinball and we will attempt to diagnose the problem for you. If a part fails during the warranty period and you feel confident you can install it yourself, we will send the replacement part for free. If something goes wrong during the first 30 days you have the machine, you can also choose to exchange it for a new one. After 30 days, if you need to return the machine for repairs, you will have to pay for return shipping. We will repair the machine and return the machine back to you at our expense.

All components of your machine are covered for non-commercial use for five years from the date of purchase, but wheels are wear items which are prorated like car tires. For example, if a wheel only lasts 3 years (60% of rated life), you will receive 40% off the price of a new one. The warranty does not cover cosmetic issues, normal wear, or misuse of the product. For commercial use, the warranty period is one year. Warranties are not transferable.

We don't want anyone to be unhappy with their purchase, so products may be returned at your expense for any reason within 30 days for a full refund minus a 15% restocking fee. This fee is the lowest in the industry and covers both our outgoing shipping costs and minor cosmetic damage to the machine. Refunds will be reduced to cover any non-cosmetic damage.

THANK YOU!

Thank you for buying from Rawlings and Spinball Sports. We hope you will enjoy your new pitching machine for many years to come. If you have any questions or comments please email us at info@spinballsports.com or call us at 618-244-4587. And thanks again!
Also available:

**Rawlings Automatic Ball Feeder**

- Connects directly to pitching machine with open flex ramp so batter can see ball as it loads
- Holds 35 baseballs or 29 softballs
- Fixed release interval of 7 seconds
- Wireless on / off remote control included
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