

Radat Pitching Trainer


Model RPT1000 Instruction Manual




IMPORTANT:

- ⚠ **WARNING!** This product is not intended for use by children under age twelve.
- ⚠ **CAUTION!** Improper assembly will cause this product to fail.

WARNING!


 **WARNING!** This product is not intended for use by children under age twelve. This product should always be used under qualified adult supervision.


 **WARNING! PINCH POINT!** Care should be taken when folding the pitching trainer frame, as it is possible to pinch fingers in the hinges or elbow brackets.


 **WARNING!** This product should only be used in an un-crowded, fenced or indoor environment, away from children or others who may pass near or in front of the product while in use. Not for use in public environments without appropriate safeguards (such as fencing or netting).


 **WARNING!** Do not stand in front of, next to, or behind the pitching trainer when it is being used. Observers should stand well to the side of the pitching trainer.

 **CAUTION!** Improper Assembly will cause this product to fail.

 **CAUTION!** Do not use the pitching trainer behind a batter, as the balls may ricochet back into the batter.

 **CAUTION!** A backstop should be used behind the pitching trainer to stop balls that miss the trainer. The backstop should not cause the balls to ricochet back into the trainer's Electronic Module as it can be damaged by the ball impact.

 **CAUTION!** Moisture may damage electronic module. Do not leave outdoors when rain, dew, or irrigation are possible. The warranty is void if the product is exposed to moisture.

 **CAUTION!** See the Battery Installation Instructions regarding the proper battery use and disposal (page 9 and 10 in the instruction manual).

Radar Pitching Trainer Model RPT1000 Instruction Manual

SAVE THIS MANUAL FOR FUTURE REFERENCE. READ AND UNDERSTAND ALL THE INSTRUCTIONS OF THIS MANUAL BEFORE USE.

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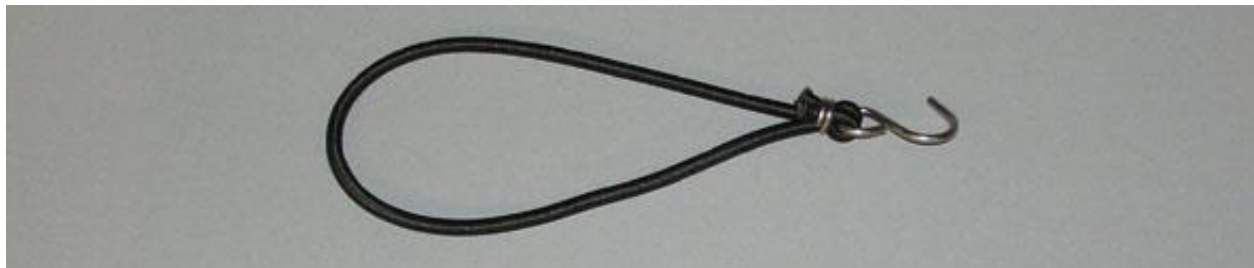
SPECIFICATIONS:

Model RPT1000: For personal use by one or two pitchers.

- Display of ball speed with each pitch (mph or km/hr.)
- Measure ball speed from 20 to 99 mph (30 to 165 km/hr.)
- Displays Baseball pitcher release speed for 46 or 60.5 ft pitching distance
- Displays Fastpitch Softball pitcher release speed for 40 or 43 ft pitching distance
- Patented and patent pending sonic radar technology for ± 1 mph accuracy pitch speed measurement that rivals the most expensive radar guns
- **SAFE– DOES NOT USE MICROWAVES**
- Determination of Ball or Strike with each pitch
- Displays Pitch Count
- Displays outs in a simulated half-inning
- Displays total accumulated pitch count in workout
- Displays total accumulated ball, strikes, outs, and walks in workout
- Ball Speed display can be turned-off for simulation training
- Large electronic display can be easily read from 60 feet
- Display is easily readable in nearly all lighting conditions, including direct sunlight
- Display can be read 45° off axis for coach or spectators
- Battery life of 80 to 100 hours with 4 alkaline D-cells
- Durable pitching target with strike zone. Strike zone will need to be replaced around 5,000 pitches.
- Heavy duty 16 gauge steel frame folds for easy storage
- Stainless steel and corrosion resistant hardware
- Detachable electronic module to protect from weather
- Frame size: 38 inches (96.5 cm) wide X 58 inches (147 cm) high
- Weight: 35 lbs. (16 kg)



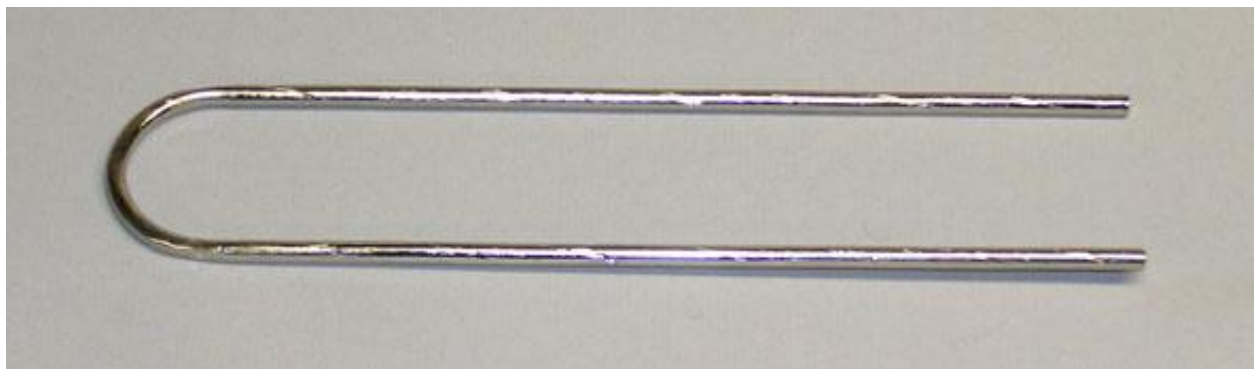
Visor for Electronic Module



Short Mounting Straps for Ball-stop Curtain

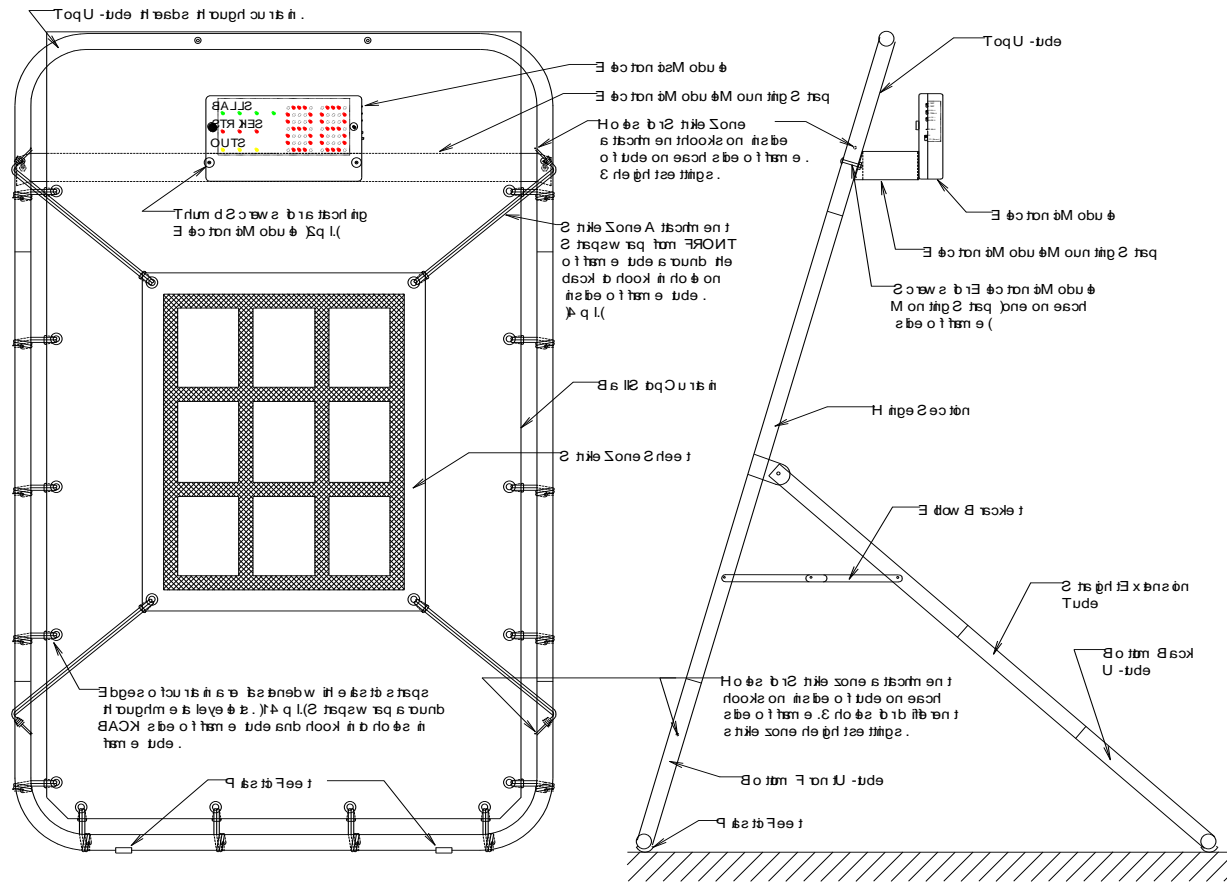


Long Mounting Straps for Strike Zone Target



Ground Stakes

ASSEMBLY:

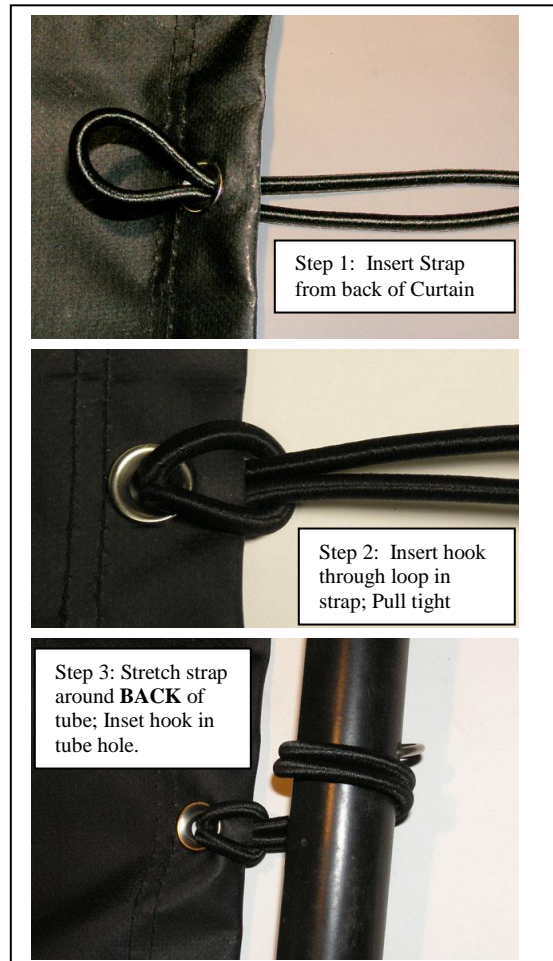


Front and Side views of assembled Radar Pitching Trainer.

1. Locate right and left Hinge Sections of frame. Elbow brackets on hinge will be on outside of frame.
2. Locate Bottom Front U-tube section of frame (has plastic feet and holes in the sides for attaching Curtain). Orient the U-tube so that the feet are flat on the floor when the tube tilted backward slightly.
3. Snap lower end of each hinge section over the ends of the Bottom Front U-tube.
4. Snap the two Straight Extension Tubes on the back (movable) arm of the two Hinge Sections and extend the arms so the elbow bracket is straight.
5. Orient the Bottom Back U-tube and snap it into the two straight extension tubes.
6. This assembly will now stand on its own with the two plastic feet on the floor.
7. Unfold the vinyl/fabric Ball-stop Curtain and locate the top edge which does not have grommets, but rather is folded back on itself to form a **tube along the top edge**.
8. Thread the Top U-tube through the **tube at the top of the vinyl/fabric Curtain**. This is most easily done when the Curtain is hanging vertically and the U-tube is held with the bends horizontal. This allows the Curtain to easily bend around the corners of the U-tube.

9. The Top U-tube can be snapped onto the top of the frame assembly. Be sure the front side of the vinyl/fabric Curtain is facing the front of the frame.

10. The Curtain is now attached to the sides and bottom of the frame with the 14 short elastic straps with hooks. To attach the straps to the Curtain, the strap loop is held next to a grommet at the edge of the Curtain with metal hook at the other end of the strap facing toward the front. Then the elastic strap is attached to the Curtain by pushing the loop of the strap through the Curtain grommet from the **BACK OF THE CURTAIN (step 1-see photo)**. The loop is then pulled around and off the edge of the Curtain. The metal hook is then pushed through the loop and is then pulled to tighten the strap in the grommet (**step 2 – see photo**). Then stretch strap and hook and wrap hook around the **BACK OF THE FRAME** and insert hook into the hole in outside of the frame (**step 3 – see photo**). This is repeated to attach all 14 straps to the grommets on the sides and bottom edges of the Curtain. When this installation is complete, **the Curtain is held in the plane of the back edge of the frame.**

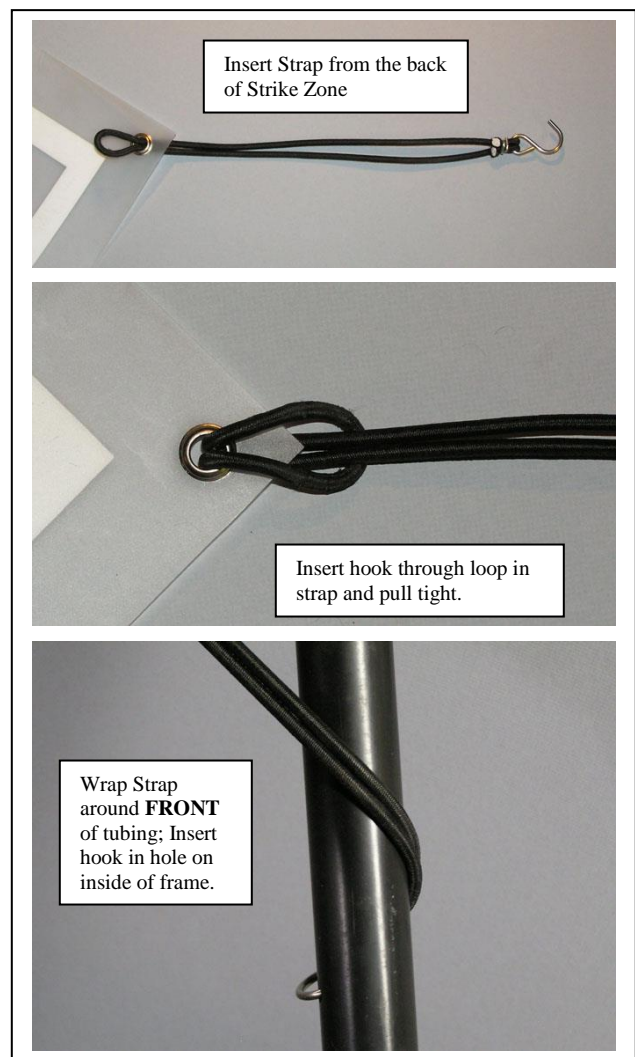


11. The Electronic Module Mounting Strap is now attached to the back of the frame using 2 of the M6 X 50 mm screws. First a washer is slipped onto each screw and then the screws are inserted from the front into the holes on the right and left sides of the Top U-tube. The Electronic Module Mounting Strap has angled ends. The strap should be turned such that when these ends are attached to the frame, the center section of the strap is vertical (if not, it is probably upside-down). The strap ends are then slid onto the screws through the frame and secured with a washer and nut. The Allen Wrench and Open-ended Wrench included fit these screws.

12. The Electronic Module must have batteries inserted. The unit should be **switched "OFF"** when batteries are being installed. It uses 4 alkaline D-cells. The battery compartment door on the back of the module is secured by 2 screws along the bottom of the unit. These screws should be loosened (but not removed; they are held on by plastic washers). The battery door then pivots open and the batteries can be inserted. The cover is then replaced and the screws tightened.

13. The Electronic Module is then attached to its mounting strap. It is held against the back of the strap with two M6 Thumb Screws with large plastic heads (the M6 thumb screws will be attached to the electronics module). These screws are inserted from the front of the strap and screwed into the inserts on the front of the Electronic Module. They should be securely tightened by hand, tools are not required. For proper operation and display visibility, the Electronic Module must be facing precisely horizontally. Pull up or down on the mounting strap (bending it slightly) to make adjustments if necessary.
14. The Visor is attached to the frame above the Electronic Module. First locate the two holes in the Curtain where it wraps around the Top U-tube. The Curtain should be positioned so these holes align with the holes through the top bar of the U-tube. Slide washers onto the two remaining M6 X 50mm screws and insert the screws through the holes in the top bar of the frame. The two mounting holes in the Visor are then aligned and slid over these screws. The Visor should be resting on top of the Electronic Module. **Two foam pads located on the bottom of the visor must be touching the top of the electronics module (very important).** The screws are then secured with washers and nuts, and tightened with the tools provided.
15. Locate the Strike Zone Target and orient it so the painted surface is on the back and the long dimension is vertical. The long elastic straps are attached to the corners of the Strike Zone in a similar fashion to those attached to the Curtain, except the straps extend at a 45 degree angle off the corners of the Strike Zone, and the hooks face backward. After the four straps are attached, they are connected to the frame. The top straps connect to the frame just above the Electronic Module Mounting Strap. **THE STRAPS WRAP FROM THE FRONT OF THE FRAME AROUND TO THE BACK** and the hooks are inserted in holes on the inside of the frame. This is done on both sides of the top. The bottom straps connect in the same fashion into two holes on the inside of the bottom U-tube. **When mounted properly, the Strike Zone is held in the plane of the front edge of the frame and is held approximately 1 inch away from the vinyl Curtain. This spacing is important for proper distinction of Balls and Strikes.**

The strike zone has three different height settings which are color coded with adhesive labels on the tubing.



16. The pitching trainer frame must be anchored to the ground or floor before use. Four U-shaped ground stakes are provided to stake the frame to the ground. The stakes are placed over the bottom tubes of the frame and pressed into the ground angled backwards. Alternatively, if the unit is used on a floor and cannot be staked, weights (not provided) such as sand bags can be placed on the lower frame tubes. If weights are used, they should be positioned so they do not interfere with the stretch of the lower Curtain attachment straps. If the straps rub against the weights, they will wear out more rapidly.

DO NOT USE THE TRANSLUCENT PC STRIKE ZONE WHEN THE TEMPERATURE IS BELOW 45°F (7°C). THE COLD TEMPERATURE MAKES THE PLASTIC BRITTLE AND IT CAN CRACK.

NOTE: The Electronic Module is easily removable and should never be left outside when the unit is not being used. Be careful not to drop the Electronic Module, as the weight of the batteries can cause damage to the unit. Alternatively, the frame can be folded flat and the entire unit can be brought indoors.

ELECTRONIC MODULE ASSEMBLY:

The Electronic Module requires no assembly, other than inserting the batteries. It uses 4 alkaline D-cells. Most types of rechargeable batteries can also be used, but carbon-zinc (often called "Heavy Duty") batteries are not recommended.

The battery compartment is on the back of the module and is held closed by 2 screws along the bottom of the unit. These screws should be loosened (but not removed entirely; they are held on by plastic washers). The battery compartment then pivots open and the batteries can be inserted. The cover is then replaced and the screws tightened.

The Electronic Module is then attached to its mounting strap on the pitching trainer frame. It is held against the back of the strap with two M6 thumb screws with large plastic heads. These screws are inserted from the front of the strap and screwed into the inserts on the front of the Electronic Module. They should be SECURELY tightened by hand, tools are not required. If these screws loosen with use, they must be re-tightened to insure accuracy and to prevent damage to the Electronic Module. The Electronic Module can be installed and removed from the frame without removing the visor.

The Electronic Module is easily removable from the frame and should never be left outside when the unit is not being used. This is most important when there is a possibility that the Electronic Module could get wet from rain or dew or irrigation. The module should never be left outside overnight because dew can damage the unit.

OPERATING INSTRUCTIONS:

The pitching trainer should be set up in an area with sufficient space for the desired pitching distance. It is desirable to have an additional backstop behind the pitching trainer to stop balls that miss the trainer. The Radar Pitching Trainer is calibrated for pitching distances of 46 or 60.5 feet for baseball and 43 or 40 feet for fast pitch softball. If the actual pitching distance is a little different from the switch setting, the displayed speed will still be consistent, but may be different from the actual speed by 1 – 2 mph (1 -3 km/hr.). If the pitching distance is less than 20 feet, the accuracy or operation is not guaranteed.

The switches are set to the desired configuration: Pitching distance; Hardball or Fast pitch Softball; and Speed Display on or off. The power switch is turned-on and the display will flash indications of the switch settings and then blink OK to indicate that it is ready for use.

Balls can now be thrown at the pitching trainer Curtain. After each pitch hits the Curtain, the speed of the pitch will flash in the display or if the Speed Display switch is in the off position, the display will flash ++. If the pitch hit the Strike Zone, the next red strike indicator light will be turned-on and flashed for a few seconds. If the ball misses the Strike Zone, the next green BALLS indicator light will be turned-on and flashed for a few seconds. If the ball missed the pitching trainer entirely, it may not be recognized. To keep the statistics accurate, the Add Ball pushbutton switch can be pressed to increment the ball indicator and the total pitch count.

When three strikes are accumulated, the STRIKES lights are reset to off. And the OUTS indicator is incremented. When four balls are accumulated, the ball indicators are reset to off, and the internal count of walks is incremented. After either a strikeout or walk, the BALLS and STRIKES indicators are set back to zero. The statistics of the pitching session are maintained in the Electronic Module and displayed sequentially starting anytime there is a 10 second pause in the pitching.

When there are long pauses in the pitching the Electronic Module will switch to a flashing display to conserve the batteries. Anytime the Electronic Module is running, balls can be pitched at any time, even when statistics are being displayed or when it is in the power conservation mode. The unit will recognize the pitch and revert to the standard display mode. The only time a pitch will not be recognized is when the display is still flashing the speed (or ++ if speed display is off) of the last pitch.

BATTERIES:

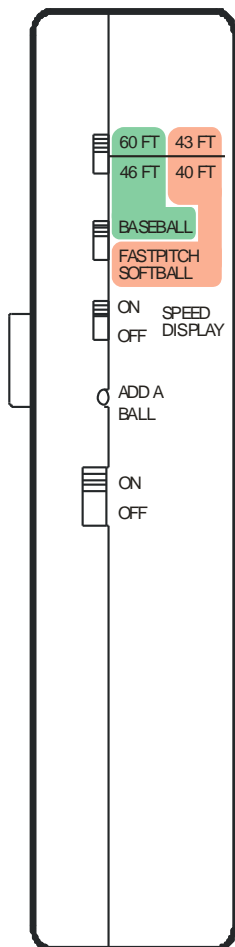
- Use only Alkaline, Nickel-Cadmium (Ni-Cd) or Nickel Metal Hydride (Ni-MH) batteries.
- Do not mix old and new batteries, do not mix rechargeable batteries of different types or mix rechargeable batteries with non-rechargeable batteries.
- Remove used batteries immediately.
- Remove batteries if unit will be left unused for a long period.
- Dispose of batteries safely. Do not dispose of batteries in fire, as they may explode or leak.

- Do not ever ship the Electronic Module with batteries installed. The weight of the batteries can damage the unit during shipping.

The Radar Pitching Trainer uses 4 alkaline D-cells. Most types of rechargeable batteries can also be used, but carbon-zinc batteries (often called “Heavy Duty”) are not recommended. Care should be taken to orient all batteries properly as indicated in the battery compartment. Improper installation of the batteries or a mix of battery types can damage the batteries and/or the Electronic Module. Operating life of the batteries should be 50 to 100 hours, depending on the quality and capacity of the batteries used.

BUTTON/SWITCH FUNCTIONS:

All of the control switches for the Electronic Module are located right end panel of the unit. These switches can be easily accessed from the right side of the pitching trainer.



*Electronic Module
Edge view*

The top switch selects the distance from which the balls are pitched. Little league baseball games are typically played with a pitching distance of 46 feet. College and professional baseball teams typically use 60.5 feet. Fast pitch softball is typically pitched from a distance of 40 or 43 feet. If this switch is set properly for the pitching distance, the display will accurately indicate the speed the ball was released from the pitcher’s hand. If the actual pitching distance is a little different from the switch setting, the displayed speed will still be consistent, but may be different from the actual speed by 1 – 2 mph (1 -3 km/hr.).

The Baseball/Fast pitch Softball switch is used to select the type of ball being used. This distinction is used to provide an accurate indication of the release speed of the ball. The top switch distance numbers in the green field are used for the Baseball setting and the distance numbers in the red field are used for the Softball setting.

The Speed Display switch is used to turn off the display of the pitch speed for training where high-speed pitching is not to be encouraged. When this switch is in the ON (up) position the pitch speed is displayed normally after each pitch. When it is in the OFF (down) position, the characters ++ are shown in the speed display after each pitch.

The 'Add A Ball' button is used to add a ball to the statistics when a pitch misses the trainer entirely and is not recognized.

The power switch turns the unit on and off. The stored statistics can be reset by turning the power off for a few seconds. The unit does not turn-off automatically, so it should be turned-off manually at the end of the session.

CHANGING SPEED MEASUREMENTS BETWEEN MPH and KPH:

Radar Pitching Trainer units sold in North America are preset to display pitch speed measurements in miles per hour (MPH). It is possible to change the indication to kilometers per hour (KPH). The procedure to do this is:

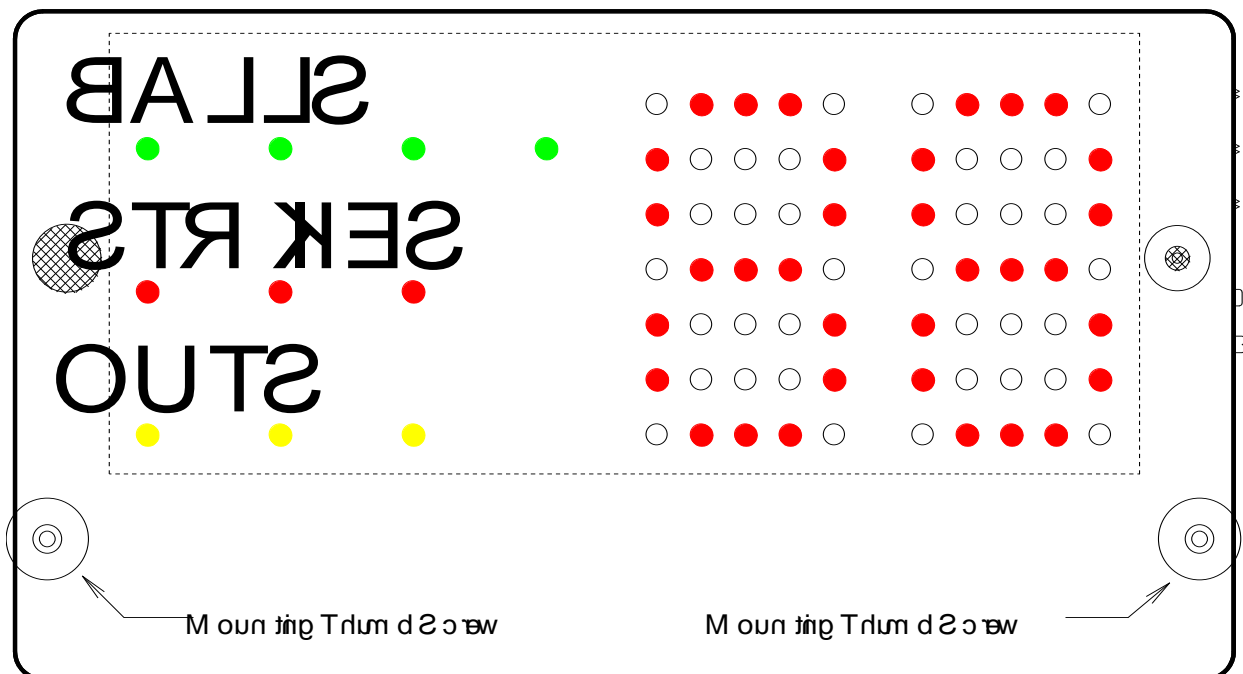
1. Turn off the power switch.
2. Set the three slide switches in the down position (Speed display = OFF; Fastpitch Softball; Distance = 46 of 40 Ft.)
3. Press and hold the "Add a Ball" push button while turning on the power; keep holding the button until the display comes on. (It will display the software version number.) Then release the push button and the display will briefly show Kph.
4. The switches can now be returned to the desired settings for use.
5. The unit will show ball speeds in kilometers per hour (KPH) until the power is turned off which will reset it to MPH.

Radar Pitching Trainer units sold outside North America are preset to display pitch speed measurements in kilometers per hour (KPH). It is possible to change the indication to miles per hour (MPH). The procedure to do this is:

1. Turn off the power switch.
2. Set the top two slide switches down (Fastpitch Softball; Distance = 46 or 40 Ft.) and the bottom slide switch up (Speed Display = ON).
3. Press and hold the "Add a Ball" push button while turning on the power; keep holding the button until the display comes on. (It will display the software version number.) Then release the push button and the display will briefly show Mph.
4. The switches can now be returned to the desired settings for use.
5. The unit will show ball speeds in miles per hour (MPH) until the power is turned off which will reset it to KPH.

ELECTRONIC MODULE DISPLAY:

The visual display on the Radar Pitching Trainer is designed to be easily read from the pitching position up to 60 feet away. Under most lighting conditions, the Visor over the Electronic Module will cast a shadow on the display and improve the appearance and readability. The best appearance will be achieved when the Radar Pitching Trainer is positioned so the sunlight does not shine directly into the face of the display. The display can also be read from a side angle of up to 45 degrees so coaches and spectators can also read the display in most lighting conditions.



Front view of Electronic Module

The Electronic Module has a 2-digit red dot-matrix LED display for number and letters. It has four green LEDs to show the current number of balls pitched for the simulated batter. It has 3 red LEDs to show the current number of strikes pitched for the simulated batter. It also has three yellow LEDs to show the number of outs in the simulated inning.

When the Electronic Module is turned-on, the 2-digit display shows the switch settings by flashing HB or SB for hardball or softball, and 46 or 60 for the pitching distance setting. After this information is displayed, the dot matrix flashes the letters OK to indicate that the unit is ready for use. The switch settings are also displayed briefly any time the switch settings are changed.

After a pitched ball hits the Radar Pitching Trainer, the speed of the ball (or ++ if speed display is off) is flashed in the 2-digit display and either the BALLS or STRIKES LEDs are incremented with the newly lit LED blinking for a few seconds. After the fourth ball is accumulated, the BALLS and STRIKES LEDs are reset to zero after the flashing. After the third strike is accumulated, the STRIKES and BALLS LEDs are reset to zero after the flashing and the OUTS LEDs are incremented. After the third out is accumulated, the OUTS LEDs are reset to zero after the flashing. The Electronic Module maintains statistics on the total number of pitches, the total number of strikes, the total number of balls, the total number of walks and the total number of outs.

When there is a pause in the pitching of approximately 10 seconds, the display switches to show the statistics. The statistics are presented by first showing the identifier followed by the number. When the number is zero, that data is not shown, except for pitch count which is always shown.

Identifier	Statistic
PC	Total Pitch Count since power-on
S=	Total number of Strikes since power-on
B=	Total number of Balls since power-on
W=	Total number of Walks since power-on
O=	Total number of Outs since power-on

After the statistics have been presented and pitching has not yet resumed, the display will switch to battery conservation mode where the speed of the last pitch is flashed every few seconds. If instead of the speed, the display flashes BATT, it means that the battery voltage is low. The unit will continue to operate for a while with low batteries, but the accuracy of the speed indication can not be guaranteed. Batteries should be replaced for accurate operation.

Balls that can be used:

The Radar Pitching Trainer is designed for use with standard baseballs and softballs. Soft strike baseballs or softballs can also be used. Heavy weight baseballs SHOULD NOT be used. Other types of balls can be used, but the operation and accuracy cannot be guaranteed. The unit may not be able to read the speed of some ball types with textured surfaces. **BALLS OR OTHER OBJECTS THAT ARE HEAVIER OR HARDER THAN THE STANDARD BALLS SHOULD NOT BE USED AS THEY MAY DAMAGE THE UNIT.**

Do Not use with Dimpled Balls:

Training baseballs with a dimpled surface (like a large golf ball) may not work properly with the Radar Pitching Trainer. The Radar Pitching Trainer may not read the speed of these balls, or indicate an inaccurate speed.

Product Use and Care:

The Radar Pitching Trainer can be used indoors or outdoors. Care must be taken to assure that the Electronic Module is not exposed to moisture. If the trainer is used outdoors, the Electronic Module should be removed and stored indoors when the unit is not in use. Alternatively, the entire unit with the Electronic Module attached can be folded and brought indoors when it is not in use. In case of rain or other precipitation, the Electronic Module should be removed and kept dry. The Electronic Module should never be left outdoors overnight, as dew is likely to form and damage the unit.

Be careful not to drop the Electronic Module. The weight of the batteries can damage the unit.

DO NOT USE THE TRANSLUCENT PC STRIKE ZONE WHEN THE TEMPERATURE IS BELOW 45°F (7°C). THE COLD TEMPERATURE MAKES THE PLASTIC BRITTLE AND IT CAN CRACK.

The Radar Pitching Trainer frame is designed for outdoor use and can withstand sun and rain. Some degradation over time will occur from weathering, so protecting the unit from the weather when it is not in use will prolong its life.

Normal use, particularly with baseballs, will result in marks on the Strike Zone Target and Ball-stop Curtain from the white coating and printing on the baseballs. These marks can be easily removed, if desired, with standard cleaning techniques, using consumer cleaning solvents, such as Windex, 409, etc.

MAINTENANCE:

If the trainer is used for institutional use (i.e. pitching academies or fundraising) then the frame components will need replacement over time. Components that will wear out are the strike zone, bungees, ball stop curtain and electronics' mounting strap.

Replacement parts can be purchased @ www.radarpitchingtrainer.com Broken parts need to be replaced immediately to protect the electronics.

TROUBLESHOOTING:

Display is dark when power is turned-on:

Check that batteries are good and installed properly.

Unit does not operate or "BAT" shows on the display:

Batteries need to be replaced. Carbon-zinc (heavy duty) batteries should not be used.

Display is difficult to read from pitching distance:

Check that batteries are good and installed properly.

If the sun shines directly into the display window of the Curtain the display visibility will be reduced. If possible reposition the unit to change the angle of the sunlight.

Make sure the Electronic Module is facing precisely horizontally. Even a small tilt will reduce the display visibility. If the Electronic Module is not facing horizontally, pull up or down on the mounting strap (bending it slightly) to make the adjustment.

Speed of ball does not register:

Make sure the Speed Display switch is in the ON (up) position. Make sure that balls being used are standard baseballs or softballs. Dimpled, textured, or fabric covered (tennis) balls may not work properly. Also, make sure the Electronic Module is mounted so it is facing horizontally. If the Electronic Module mounting strap becomes bent so the Electronic Module is pointing somewhat upward or downward, the pitches may not be detected. The strap should be bent back to keep the Electronic Module facing horizontally.

Strikes are not registering; Strike Zone Target is sticking to Curtain:

Check for proper assembly; the elastic straps for the Curtain connect around the back of the frame tube, and the elastic straps for the Strike Zone connect around the front of the frame tube to create a 1 inch gap between the Strike Zone and the Curtain.

Under some conditions, typically very dry or cold weather, static electricity can build up between the Strike Zone Target and the Curtain. This static may cause the Strike Zone Target sheet to stick to the Curtain. The static can be eliminated by spraying the front of the Curtain with a static eliminating consumer product such as “Static Guard”. If “Static Guard” isn’t available then break the static electricity by swiping your arm between the back of the strike zone and vinyl curtain.

DO NOT USE THE TRANSLUCENT PC STRIKE ZONE WHEN THE TEMPERATURE IS BELOW 45°F (7°C). THE COLD TEMPERATURE MAKES THE PLASTIC BRITTLE AND IT CAN CRACK.

Balls are not registering; pitches that are Balls are registering as strikes:

This error can be caused by loose mounting screws on the Electronic Module. The two thumbscrews that secure the Electronic Module must be kept tight.

Erratic operation when more than one trainer is used near each other:

The Radar Pitching Trainer uses sound to determine the ball speed and to discriminate between balls and strikes. Units operating too close to each other can “hear” the sounds of the other unit and produce inappropriate readings. Pitching trainer should be moved farther apart to eliminate this problem.

Electronic Module “misses” pitches or occasionally produces wild numbers:

This can occasionally occur in the presence of loud ambient noise either at audible frequencies or at ultrasonic frequencies which cannot be heard. Ultrasonic frequency noise can be created by jangling small metal pieces, rustling leaves, crumpling or rustling thin plastic sheets like grocery bags, rustling of some synthetic fabrics, static discharges, and from animals like bats. To solve this, the pitching trainer should be moved to a quieter location, or the source of the interfering sound eliminated.

REPLACEMENT PARTS:

The Ball-stop Curtain, Strike Zone, and the elastic straps that attach these components to the frame are expected to wear with use. The life of these parts is determined by the amount of use and the speed and weight of the pitched balls. These parts can be replaced when necessary to restore the Radar Pitching Trainer to its original functionality. The Electronic Module can also be replaced if it is accidentally damaged or left out in wet conditions.

Replacement parts can be ordered from: <http://www.radarpitchingtrainer.com>

FCC INFORMATION:

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.

WARRANTY

J-Biz, Ltd. provides a ninety (90) day limited warranty on this product against manufacturing defects in materials and workmanship. This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact J-Biz, Ltd. for problem determination and service procedures. Warranty service can only be performed by a J-Biz, Ltd. authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to J-Biz, Ltd. or J-Biz, Ltd.'s authorized service center. J-Biz, Ltd.'s contact information:

J-Biz, Ltd.
3 Witherbee Lane
Southborough, MA 01772
(508) 875 1670

J-Biz, Ltd. will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of J-Biz, Ltd. and must be returned to J-Biz, Ltd. Replacement parts and products assume the remaining original warranty, or sixty (60) days, whichever is longer. J-Biz, Ltd. will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need of repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting your J-Biz, Ltd. product to a J-Biz, Ltd. authorized service center. J-Biz, Ltd. will pay ground return shipping charges to the owner of the product to a USA address only.

Your J-Biz, Ltd. warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage due to improper assembly; (4) damage to, or deterioration of, any accessory or decorative surface; (5) damage resulting from failure to follow instructions contained in your

owner's manual; (6) damage or wear due to exceeding the usage specifications; (7) damage resulting from the performance of repairs or alterations by someone other than an authorized J-Biz, Ltd. authorized service center; or (8) applications and uses that this product was not intended. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

J-BIZ, LTD. WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

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