

I-SAM[®]

Portable Tennis Ball Machine

Owner's Manual



All specifications printed within this manual are subject to change without notification.

Owner's Manual for Your I-SAM® Portable Tennis Ball Machine

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General Overview of I-SAM® Portable Tennis Ball Machine

The I-SAM® ball machine, manufactured by Master Sports, LLC, is a portable, compact, self-contained unit designed to be easily handled, transported, and stored. The exterior is weather and corrosion resistant.

Testing Procedures:

To ensure customer satisfaction, every I-SAM® ball machine is tested as follows:

- Battery is checked and tested to ensure superior quality.
- Approximately 200 balls are fed through the machine.
- Machine is cleaned and boxed.

NOTE: There may be some residual ball fuzz in your machine as a result of testing.

Important Safety Information

The I-SAM® ball machine is specifically designed to throw tennis balls at a high rate of speed. To avoid any bodily harm, please observe the following precautions at all times:



WARNING: Do not reach or look into the ball exit hole without first turning the main power off and only after all wheels come to a complete stop.



WARNING: Never stand closer than 35 feet in front of the ball machine when the power is on. Balls exit at various angles, 0-45 degrees vertical, and from 14 degrees left to 14 degrees right.



WARNING: Do not place hands or foreign objects into the ball hopper while the power is on.



WARNING: Only use standard size (NOT rally) tennis balls with this unit.



WARNING: Use caution with small children in the area.



WARNING: Do not use this machine while it is raining or in water. Do not use wet tennis balls.

Important Instructions Before First Use

Battery Preparation:

(This section does NOT apply to electric-only machines.)

Before first use, the internal battery should be fully charged. Please refer to page 8 for battery charging instructions.

Ball Hopper Preparation:

The ball hopper slides over the machine for compact storage.



Follow these steps to prepare the I-SAM® ball machine for use:

1. Lift hopper from machine base.
2. Line up tabs on hopper with holes on base.
3. Place tabs through holes and twist to "lock" hopper into place.

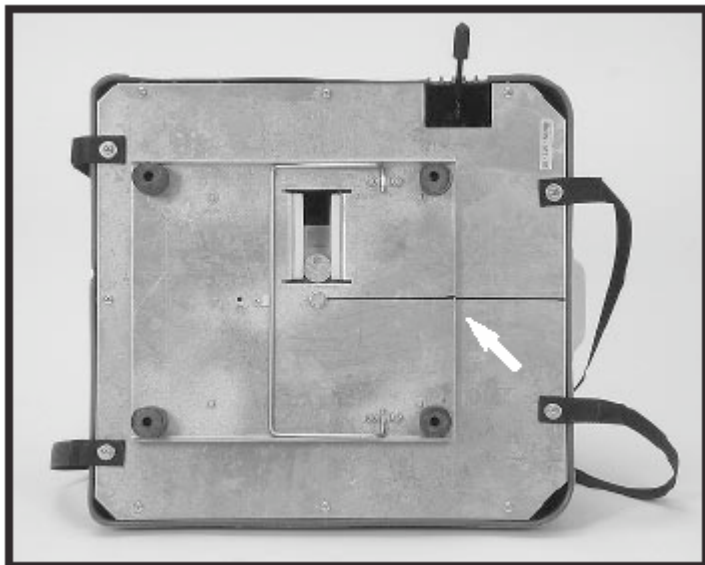
Ball Hopper Features:

The ball hopper serves two functions:

1. A cover over the machine when being transported and in storage
2. A ball hopper capable of holding over 250 balls

Alignment:

To align machine so that it is centered to shoot equal distance to forehand and backhand:



1. Turn machine over on it's side and look underneath.
2. Turn sweep on until dark lines match.
3. Set machine in position on serving line with ball exit hole directly over center line.

Ball Feed Instructions:

For safety reasons, the ball feed will not activate for 10 seconds when the machine is first powered on.

Break-in Period:

New tennis balls are apt to leave a slick film on new drive wheels that could cause misfires. Because of this, Master Sports recommends that slightly used tennis balls be used during the first 10 hours of operation.

Operation — I-SAM® Model 1



POWER The power switch is on the BACK of the machine. It is the top right button. The power button turns on the unit and enables the other functions.

OSCILLATION The random OSCILLATION is the furthest button to the left on the control panel. It allows the machine to shoot balls from one side of the court to the other.

SPEED The BALL SPEED control knob regulates the ball velocity from 10 to 60 m.p.h..

FEED The FEED RATE control knob regulates the time interval between shots being fired. The range is between 1.5 seconds to 8 seconds. There is a 10 second delay after the machines main power switch is turned on before the ball feed activates.

ELEVATION The elevation control is found below the control panel. It is adjusted by moving the lever into one of the five grooves. For higher elevations, extend the elevation kickstand (on oscillation base) forward.



Adjust to elevate 0° to 20° (without kickstand)



Adjust to elevate 25° to 45° with kickstand

BATTERY The I-SAM® Model 1 comes standard with one 7.5 Amp hour battery. The I-SAM® Model 1 will operate for an approximate two hour continuous run. See accessories for options to extend playing time.

Operation — I-SAM® Model 2 / I-SAM® +



POWER The power switch is on the BACK of the machine. It is the top right button. The power button turns on the unit and enables the other functions.

Wireless
remote on/off
button

OSCILLATION The random OSCILLATION is the second button from the right on the control panel. It allows the machine to shoot balls from one side of the court to the other.

SPEED The SPEED buttons regulate the ball velocity from 10 to 60 m.p.h..

FEED The FEED buttons regulate the time interval between shots being fired. The range is between 1.5 seconds to 8 seconds. There is a 10 second delay after the machines main power switch is turned on before the ball feed activates.

ELEVATION The elevation control is found below the control panel. It is adjusted by moving the lever into one of the five grooves. For higher elevations, extend the elevation kick stand (on oscillation base) forward.



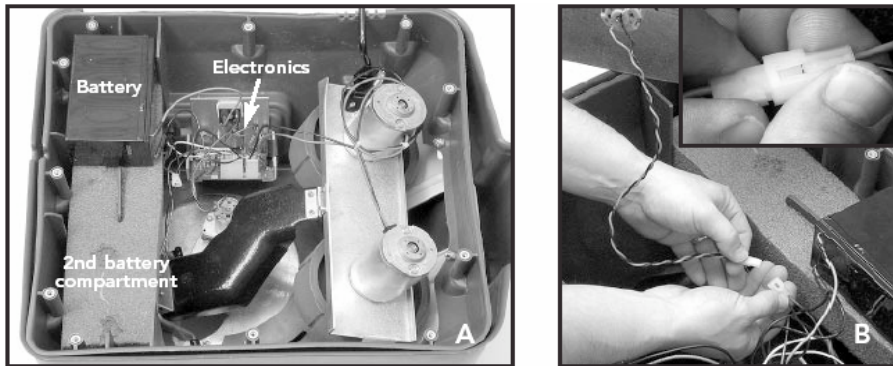
CORDED REMOTE The remote allows the OSCILLATION, SPEED and FEED RATE to be controlled away from the machine. The remote is on a tether that should never be separated from the machine. It may be placed on the side of the machine when not in use.

BATTERY The I-SAM® Model 2 comes standard with two 7.5 Amp hour batteries. The I-SAM® Model 2 will operate for an approximate four hour continuous run. Please see accessories for options to extend playing time.

Battery Instructions

The following are requirements to ensure proper performance of sealed lead acid batteries and should be followed precisely:

- **Charge battery immediately after use.**
- **Do not store battery in discharged state.**
- **Do not store for more than 30 days without recharging.**



Battery Replacement:

Turn machine on its top and remove the 11 screws that hold the base-plate. Remove the base-plate, being careful to disconnect the oscillation motor (see photo B). The battery may be lifted out and the new one put in place. The wires must be connected to the proper terminals on the battery. Replace the base-plate being sure to reconnect the oscillation motor.

CAUTION: Be sure to connect the orange battery wire to the red battery terminal and the black battery wire to the opposite battery terminal.

Charger:

The charger provided with the machine will charge a single 7.5 Amp hour battery within 14-16 hours. Two 7.5 Amp hour batteries should charge within 24 hours. The charging receptacle is located in the upper left side on the back of the machine. Plug the charger into the machine first and then into the outlet. The charger must be plugged into a socket that will provide continuous power during the charging cycle.

Maintenance

Base-Plate Removal:

Turn machine upside down and remove the 11 screws. Lift base-plate off frame far enough to disconnect the oscillation motor and then set base-plate aside.

Periodic Internal Cleaning:

The frequency of cleaning will depend on the use of the machine. For casual use (less than once a week), the cleaning procedure should be performed once every six months. For extensive use (more than twice a week), the cleaning procedure should be done every three months.

Internal Cleaning Procedure:

STEP 1: Remove base-plate following the steps in the Base-plate Removal section.

STEP 2: Brush or vacuum off ball felt and any other foreign materials that have accumulated on the unit's interior, including the delivery wheels. Never use compressed air.

STEP 3: Replace base-plate by completing the Housing Removal steps in reverse order.

CAUTION: Before replacing the base-plate, connect the orange battery wire to the red battery terminal and the black battery wire to the opposite battery terminal.

Storage

Store the I-SAM® ball machine in a clean, dry place. Charge the battery before storage. Be sure to read the battery section for more information about long term storage. Avoid storage areas that are subject to extreme temperatures.

Transportation

For ease of transportation, the I-SAM® Portable Tennis Ball Machine has a handle by which it may be carried. In addition, most standard luggage carts can be used to transport the machine.



Troubleshooting Guide

Q: Once in a while the machine shoots out two to three balls at a time. What is the problem?

A: If the wheels are unable to handle a ball, the balls back up and push the errant ball through the delivery wheels. This effect causes all balls that have dropped through the hopper to exit back to back. Occasionally wet tennis balls may cause this problem as well. In addition, extra felt or heavy duty tennis balls are slightly larger than normal tennis balls and multiple firing may occur more frequently when these types of balls are used.

Q: The machine turns on, but instantly shuts down or gives low battery indication. What is wrong?

A: This could mean that either the battery is low or something is prohibiting the machine from going through its normal power up procedure. With machine off, check behind ball throwing wheels to make sure there is no ball jam. If wheels turn freely, recharge battery.

Q: The machine is only shooting to the right or left of the court. What is the problem?

A: The oscillating base should be facing forward for the machine to oscillate properly. See alignment section, found on page 5.

Optional Accessories

Converter:

The converter comes with 110v/220v capability (auto-switching). The converter enables the machine to be run from any standard electrical outlet. The converter plugs into the furthest left adapter on the back of the machine. Plug the converter into the machine first and then the outlet.

Cover:

The cover is designed specifically for the machine. To cover the machine for storage, put the hopper back over the base of the machine.

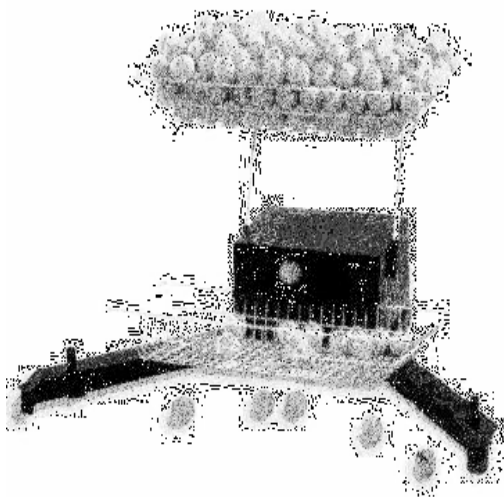
Additional Battery:

Additional batteries may be purchased to extend the play time of the I-SAM® Model 1.

Court Equipment

Ball Retriever

In just a single minute, the Classic Ball Retriever can gather over 200 balls. No more bending over, or lugging bulky baskets, or spending your valuable practice time gathering balls.



This retriever comes with a detachable polyurethane coated basket which allows it to be used as a teaching cart. The entire unit packs into the basket for compact storage, making it convenient for transport. Constructed of heavy-duty metal with rust resistant powder coating, the Classic Ball Retriever is made to last.

Court Roller

Dry your court in no time with the fast and effective Clean Sweep® Court Roller. Constructed with durable PVA (polyvinylalcohol) foam, the Court Roller works like a chamois to “push” the water off the court, leaving only a thin layer of water that evaporates in seconds.

Waterbroom

The Clean Sweep® Waterbroom is a fast, convenient and effective way to clean athletic courts, windscreens, and even your driveway or deck with less water. Unwanted dirt and debris are literally swept away in no time, with little effort. Because it uses less water, you can clean a court and be playing on it in less than 30 minutes.

SAM™ Professional Portable Ball Machines



Model:	SP -1	SP-2	SP4
Top Spin & Back Spin	Yes	Yes	Yes
Ball Speed	10-75 mph / 15-140 kph	10-75 mph / 15-140 kph	10-75 mph / 15-140 kph
Feed Rate	2 – 13 seconds	2 – 13 seconds	2 – 13 seconds
Oscillation	Random	Random	Random & Two-Line Drill
Sweep Range	Fixed	Adjustable	Adjustable
Remote	Optional 1-function Wireless	Optional 1-function Wireless	10 function Wireless
Power	Battery or AC		
Battery Life	4-6 hours		
Ball Capacity	300 balls		
Weight	49 lbs (22 kg)		
Warranty	1 Year Limited (Parts & Labor)		



SAM™ SPORT

- Variable spin (top and back)
- Variable speed (20-90 mph)
- Variable feed rates (1.5-8 seconds)
- Manual elevation (ground stroke to lob)
- Full 3 shot, 7 position shot selection
- Holds 250 balls
- 3 year limited warranty
- Dimensions: 35" x 25" x 50"

SAM™ COACH

- Variable spin (top/back)
- Variable speed (20-90 mph)
- Variable ball feed rate (1.5 - 8 seconds)
- Manual elevation (ground stroke to lob)
- Programmed or random shot sequence
- Full 6 shot, 7 position shot selection
- Holds 250+ balls
- 3 year limited warranty
- Remote Control (ball feed on/off)
- Dimensions: 35" x 25" x 50"



To Order

To order any of these products or other sporting goods, contact Master Sports at 1-800-837-1002 or contact your local dealer.

Visit our website at www.mastersports.com.

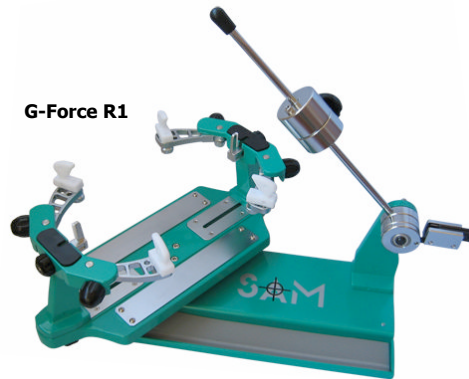
SAM™ Stringing Machines

SAM™ G-Force R1

The SAM™ G-Force R1 is the entry level drop weight machine, using technologies found on many of the worlds most expensive machines... at a fraction of the cost. Turntable wing-tech racquet support towers mount racquets quickly and securely, while its professional 6-point, 10-position K-shaped racquet support system holds racquets in position with the utmost care.

The SAM™ G-Force R1 comes with flying clamps which can be upgraded at any time to fit dual action clamps.

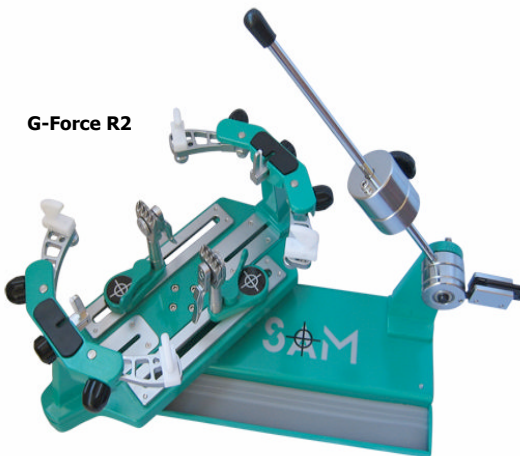
- Wing-Tech Racquet Towers
- Professional K-Shaped Racquet Supports
- 6 Point - 10 Position Mounting System
- Linear String Gripper
- 360 Degree Bearing Turntable
- Tool Tray
- 2 Tennis & 2 Badminton Flying Clamps
- SAM™ Stringing Tools
- 5-year Limited Warranty



SAM™ G-FORCE R2

The SAM™ G-Force R2 is built on the same platform as the G-Force R1 but adds the all important SAM™ dual action locking clamps allowing you to retire the flying clamps and grow into a better machine. These dual-action clamps allow for faster and more accurate restringing.

- Wing-Tech Racquet Towers
- Professional K-Shaped Racquet Supports
- 6 Point - 10 Position Mounting System
- Linear String Gripper
- Diamond Dust Coated Adjustable Clamps
- 360 Degree Bearing Turntable
- Tool Tray
- Dual Action Quick Lock String Clamps
- SAM™ Stringing Tools
- 5-year Limited Warranty



SAM™ XLR8 & XLR8+*

The SAM™ XLR8 series consists of 2 great models, the XLR8 and XLR8+. Both machines use professional crank handle wind-back systems that have been servicing the tennis industry for over 30 years. The SAM™ XLR8 sports these features:

- Wing-Tech Racquet Towers
- Professional K-Shaped Racquet Supports
- 6 Point - 10 Position Mounting System
- Ball Bearing Linear String Gripper
- Diamond Dust Coated Adjustable Clamps
- 360 Degree Bearing Turntable
- Lockable Turntable
- Extra-Large Tool Tray
- Dual Action Quick Lock String Clamps
- Accommodates Left & Right Handed Stringers
- SAM™ Stringing Tools
- Pedestal Floor Stand (XLR8+ Only)*
- 5-year Limited Warranty



SAM™ NRG and NRG+*

Make your life easier and your stringing quick and effortless. The NRG is ideal for intermediate to advanced high level users, and for the time-conscious stringer who demands quality work. The micro-chip processor controls every function, down to maintenance calibration, which ensures a perfect, constant pull every time.



- V-Tech Racquet Towers
- Professional K-Shaped Racquet Supports
- 6 Point - 10 Position Mounting System
- Ball Bearing Linear String Gripper
- Constant Pull – Rotational
- DEMP with Backlit LCD Display: Multi-speed Pulling, Knot Function, Tension Pull Counter
- Diamond Dust Coated Adjustable Clamps
- 360 Degree Bearing Lockable Turntable
- Large Tool Tray
- Dual Action Quick Lock String Clamps
- SAM™ Professional Stringing Tools
- Pedestal Floor Stand (NRG+ Only)*
- Deluxe Dust Cover
- String Reel Holder
- 5-Year Limited Warranty

SAM™ PRO-MASTER

The SAM™ Pro-Master is designed for high-volume users like pro-shops, tennis centers, tennis stores and tennis enthusiasts. With all the capabilities of the NRG, and a stack of other features including linear pull, self calibration, string type selection, 3 programmable preset tensions, knot pull, speed control, as well as a counter to monitor your machines maintenance life cycle and work load.



The SAM™ Pro-Master is automatically controlled by the latest DEMP Technology (Digital Electronic Microchip Processing). From the moment you switch it on the DEMP technology controls every feature and function and automatically calibrates giving you the perfect tension every time. The SAM™ Pro-Master has also been designed with the latest PC Box Tension Head System, so upgrades and servicing have never been easier.

- V-Tech Racquet Towers
- Professional K-Shaped Racquet Supports
- 6 Point - 10 Position Mounting System
- Linear String Gripper
- Ball Bearing Linear String Gripper
- Constant Pull – Linear
- DEMP with Backlit LCD Display:
Multi-speed Pulling, Knot Function,
Tension, Pull Counter
- Diamond Dust Coated Adjustable Clamps
- 360 Degree Bearing Turntable
- Lockable Turntable
- Large Tool Tray
- Dual Action Quick Lock String Clamps
- SAM™ Professional Stringing Tools
- Pedestal Floor Stand
- Deluxe Dust Cover
- String Reel Holder
- 5-year Limited Warranty

**SAM™ Extreme
Pressure-less Tennis Balls**

After two years of development, SAM™ introduces the first pressure-less tennis ball specifically designed for ball machines. The SAM™ Extreme pressure-less tennis ball combines the luxury of extra high quality heavy-duty U.K. felt and the durability of a pressure-less ball, sold by the bucket with 72 balls per bucket.



**SAM™ Satellite Pro
Pressurized Tennis Balls**

After two years of development, SAM™ introduces the first pressurized tennis ball specifically designed for ball machines. The SAM™ Satellite Pro tennis ball combines the luxury of high quality extra heavy-duty U.K. felt and the responsiveness of a pressured ball. The Satellite Pro is design for all surfaces and is sold by the can or case, with 4x balls per can and 18x cans per case.



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Limited Warranty

Master Sports LLC warrants its products to be free from defect in materials and workmanship for a period of one year from date of original purchase except for the battery, which is warranted for 6 months. Master Sports will repair or replace defective products at its option, without charge. Evidence showing the date of purchase and serial number must be submitted at the time any warranty claim is made. This warranty is void if the serial number has been altered or removed and shall not apply to damage caused by unauthorized repairs or alterations.

If any defect should occur, contact Master Sports at 1-800-837-1002, ext. 3307 and request Technical Assistance. Please have your serial number available. It can be found on the bottom of the machine. If we are unable to resolve the problem by telephone, an R.A. number will be issued and must be clearly evidenced on the outside of the box in order to be received at Master Sports. Return the unit in its original carton and packing, freight prepaid. Master Sports will pay the freight to return the repaired merchandise to the customer. No C.O.D. shipments will be accepted.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY AND PERFORMANCE WRITTEN, ORAL OR IMPLIED, AND ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. IN NO EVENT SHALL MASTER SPORTS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you.

WARRANTY REGISTRATION

Date of Purchase _____

Model/Serial Number _____

Source of Original Information _____

Purchased from (name of dealer, rep, pro, etc.) _____

Your Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

TO KEEP FOR YOUR RECORDS:

Serial Number (S/N) _____

Purchased from _____

Date _____

Place
Stamp
Here

Portable Tennis Ball Machine
6206 Discount Drive
Fort Wayne, IN 46818



Master Sports, LLC
6206 Discount Drive
Fort Wayne, IN 46818
Toll-free: 800-837-1002
Outside of USA: +1 260-471-0001
Technical Support, Ext. 3307

www.mastersports.com