



OWNER'S MANUAL

Operating Instructions for the JUGS® mini3™ Softball Machine



SAVE THIS MANUAL

ATTENTION: Coaches and operators of this pitching machine.

This manual must be kept with the pitching machine at all times. Each coach and/or operator must read and understand this manual before using the JUGS mini3™ Softball Machine.

Call 1-800-547-6843 or 503-692-1635 for additional copies of this manual if necessary.

IMPORTANT

NOTE: For optimal use, JUGS Sports recommends the following extension cord gauges:

LENGTH OF CORD	CORD SIZE
Less than 50 feet	16 gauge (<i>or larger</i>)
50 to 200 feet	14 gauge (<i>or larger</i>)
Over 200 feet	12 gauge (<i>or larger</i>)

▲ WARNING

The photographs and pictures shown in this catalog were chosen for marketing purposes only and therefore are not intended to depict actual practice or game situations. **YOU MUST READ THE PRODUCT INFORMATION AND SAFETY SIGNS BEFORE USING JUGS PRODUCTS.**

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INTRODUCTION

Your new JUGS mini3™ Softball Pitching Machine has been checked for quality and craftsmanship. Its innovative design is backed by four decades of research, development and manufacturing experience. It has many features designed to make your practices more efficient and enjoyable. Safety, performance and dependability have been given top priority in the design of all JUGS pitching machines, making them easy to operate and maintain. With proper care, your JUGS pitching machine will give you many years of enjoyable service.





At JUGS Sports, we are committed to providing our customers with safe, dependable products. Your comments are always welcome and they help us to continue to be the #1 producer of ball-throwing machines in the world. Please call 1-800-547-6843, email to info@jugssports.com, or write to JUGS with your comments.


SAFETY SIGNS AND LABELS

Safety Alert Symbols:

Safety Alert Symbols indicate danger, warning or caution. These symbols may be used in conjunction with other symbols or pictographs. Failure to obey a safety warning will result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of electric shock and personal injury.

 **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

 **WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Product Safety Signs and Labels:

The purpose of product safety signs and labels is to attract your attention to possible dangers. The safety symbols, signal words and the explanations with them, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

SAFETY SIGNS AND LABELS

Carefully read all safety sign decals affixed to machine before operating your JUGS pitching machine. See examples below.



Figure 1.

RULES FOR SAFE OPERATION

⚠ WARNING: JUGS pitching machines are intended for use by operators who are at least 18 years of age and who have been instructed in their use.

⚠ WARNING: Do not attempt to operate this machine until you have read thoroughly and understand completely all instructions, safety rules, machine labels, etc., contained in this manual. Failure to comply can result in accidents involving electric shock or serious personal injury. Save this Owners Manual and review frequently for continuing safe operation, and for instructing others who may use this machine.

⚠ WARNING: Do not connect your pitching machine to a power source until you have assembled and adjusted the machine as described in this manual and have read and understood all precautions and operating instructions in the manual and printed on the machine.

Read this Manual:

- **Know Your Pitching Machine.** Read the Owner's Manual carefully. Learn the machine's capabilities, features and limitations as well as the specific potential hazards related to this machine.
- **Guard against electrical shock by preventing body contact with grounded surfaces.** For example: radiators, pipes, fences, or other enclosures.
- **Keep the operator's area free of clutter.** Pick up all loose balls around the machine and keep ball supply in a pail, bucket or other suitable container. Cluttered operating areas invite accidents.
- **Do not allow children to operate the pitching machine.** You must be at least 18 years of age or older and instructed in the proper operation, maintenance, care, and storage of this machine before operating it. Close supervision is necessary when this machine is used near children.

RULES FOR SAFE OPERATION

- **Use the right ball.** Use only JUGS LeatherLast™, Sting-Free® dimpled, seamed style, Lite-Flite®, polyball or high quality leather softballs in this machine. It is important to adjust trajectory of pitch when changing balls because different ball weights will produce significant changes in trajectory.
- **Inspect extension cords** periodically and replace if damaged.
- **Use the proper extension cord.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your machine will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A wire gauge size (AWG) of at least 16 is recommended for an extension cord 25 feet or more in length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- **Do not abuse the cord.** Never yank cord to disconnect it from receptacle. Keep cord away from heat, oil, and sharp edges. Stay constantly aware of cord location and keep it well away from the rotating tires.
- **Dress properly.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry. They can get caught and draw you into the moving parts. Long hair should be tied up and tucked under hats and helmets. Severe physical harm may result if loose clothing, jewelry or hair is caught in rotating tires.
- **Always wear safety glasses and batting helmets while the wheels are rotating.** Debris on the tires can fly off and cause physical harm. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.
- **Never touch rotating tires.** Do not put hands or fingers into ball feed chute. Hands and fingers should only go to the edge of the chute.
- **Inspect machine before every use.** If damaged, have repaired by a qualified JUGS service technician.
- **Inspect tires before every use.** Be sure tires are free of grit and debris before turning on machine.
- **Do not use machine if ON/OFF switch does not work.** In the unlikely event that the switch becomes defective, have it replaced by a qualified JUGS service technician.

RULES FOR SAFE OPERATION

- **Keep machine clean, and free of grit and dirt.** With the machine unplugged, use only a clean damp cloth for cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean machine.
- **To protect the operator, a protective screen must be placed in front of the pitching machine.**
- **Only operate and store this pitching machine in a clean, dry location.** Do not use outdoors if it is raining. If machine becomes wet, do not use. A potential shock hazard exists if this machine is used while or after it has been exposed to water. Hand dry surface water from machine with a clean cloth and allow the machine to completely air dry before its next use.
- **Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the rotating tires. ALWAYS make sure you have good footing and balance.**
- **Replacement parts.** All repairs, whether electrical or mechanical, should be made by a qualified JUGS service technician. When servicing, use only JUGS replacement parts.
- **Do not operate this machine under the influence of drugs, alcohol, or any medication.**
- **Stay alert and exercise control.** Watch what you are doing and use common sense. Do not operate this machine when you are tired. Do not rush.
- **Avoid accidental starting when reconnecting to a power supply.** Always turn off machine before disconnecting it from power source. Never leave machine running unattended. Turn the power off. Do not leave machine until tires come to a complete stop.

⚠ WARNING: Do not allow your familiarity with the machine to cause you to be careless. Remember that a careless fraction of a second is enough time to inflict severe injury to yourself or others.

SAVE THIS MANUAL: Refer to it often and use it to instruct other users. Do not loan your pitching machine to anyone who has not been instructed in its use. If you do loan your machine, be sure this manual goes with it.

ELECTRICAL

Grounding Instructions:

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be connected to an appropriate GFCI outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the pitching machine is properly grounded.

Extension Cords:

Use only 3-wire 16 AWG or larger grounding type extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the machine's plug. When using the machine at a considerable distance from a power source, use an extension cord heavy enough to carry the current that the machine will draw. An undersized extension cord will cause a drop in line voltage, resulting in a loss of power and causing the motor to overheat. Only round jacketed cords listed by Underwriter's Laboratories (UL) should be used.

When working with the machine outdoors, use an extension cord designed for outside use. This is indicated by the letters "WA" on the cord's jacket. Before using the extension cord, inspect it for loose or exposed wires and cut or worn insulation.

ELECTRICAL

⚠ WARNING: Keep the cord away from the rotating tire area. Repair or replace a damaged or worn cord immediately.

Electrical Connection:

Your JUGS mini3™ Softball Pitching Machine is powered by three 90 volt motors. Do not operate this machine on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If the machine does not operate when plugged into an outlet, double check the power supply. Your pitching machine will operate under a standard 110 voltage AC outlet. Do not use an adapter with this product.

This machine is intended for use on a circuit that has an outlet like the one shown in Figure 2. It also has a grounding pin like the one shown.

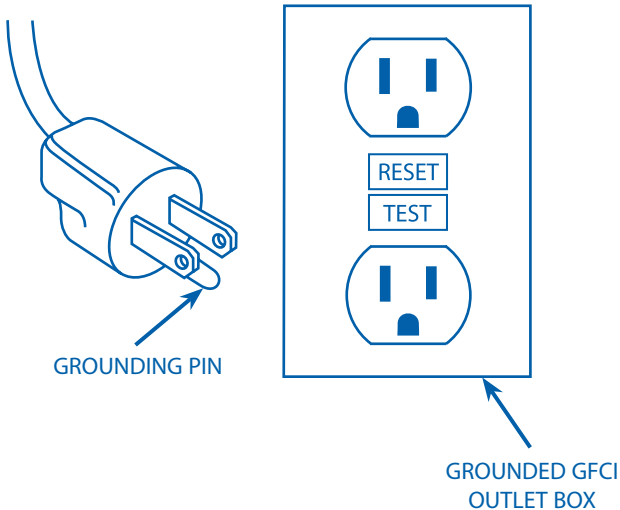


Figure 2.

TERMINOLOGY

JUGS mini3™ Softball Machine

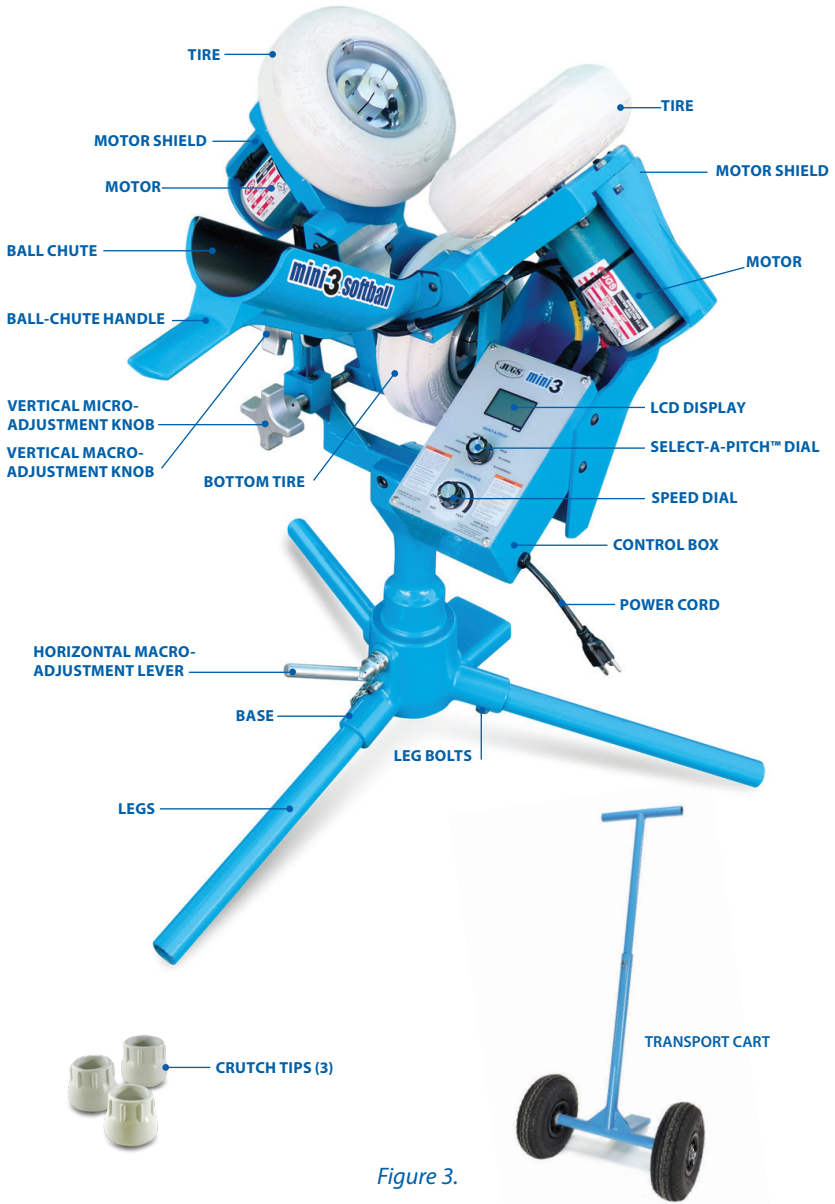


Figure 3.

UNPACKING

⚠ WARNING: To prevent accidental starting or electrical shock that could cause possible serious injury, assemble all parts to your machine before connecting it to the power supply. The pitching machine should never be connected to a power supply when you are assembling parts, making adjustments, cleaning, servicing, or when not in use.

- Carefully lift machine from carton and place on level surface. This should be done by more than one person.
- Make sure you have all the parts (see Figure 3.) If any parts are missing, do not operate the machine until the missing parts are replaced. Failure to do so could result in possible serious personal injury.
- Do not discard the packing materials until you have carefully inspected the machine, identified all the parts, and satisfactorily operated the machine.

NOTE: If any parts are damaged or missing, do not attempt to plug in the power cord and turn on switch until the damaged or missing parts are obtained and are installed correctly.

SET UP

1. Assemble the Transport Cart as illustrated in the Transport Cart Instructions.
2. Insert legs (3) into the base and tighten leg bolts
3. Place rubber crutch tips on lower end of legs if mini3™ is to be used indoors or on any hard surface. The leg crutch tips are not recommended for outdoor use on dirt or grass.
4. Lift the pitching machine upright. For safety, we recommend 2 people to raise machine.

IMPORTANT: Always set up the pitching machine so that the two legs are positioned in front, facing the pitching screen and batter, and one leg facing back toward the operator.

5. Check speed dial and make sure that it is in full counter-clockwise position —pointer at OFF position (see figure 7, Control Panel.)

SETUP

6. Plug heavy-duty, No. 16 gauge three-prong, extension cord into 110-volt GFCI outlet and connect to short cord on pitching machine. Place a pitcher's screen in front of the pitching machine to protect the operator and the pitching machine from batted balls.



TRANSPORTING

Move the mini3™ using the Transport Cart: Slide the Transport Cart (see Figure 5) into the mini3™ Base. Pull back on the Cart Handle and roll the machine away (see Figure 5a.)



Figure 5.



Figure 5a.

OPERATION

1. Operators of JUGS Pitching Machines must wear safety glasses and batting helmets at all times.
2. Check speed dial and make sure that it is in full counter-clockwise position —pointer at OFF position.
3. Plug heavy-duty, No. 16 gauge three-prong, extension cord into 110-volt A/C outlet and connect to short cord on pitching machine. Place the pitcher's screen in front of the pitching machine to protect the operator and the pitching machine from batted balls.
4. Position machine at desired distance from target.
5. Select Pitch, and speed (See page 17.)
6. Have all batters and observers stand well clear of the target as you throw practice balls. **To adjust trajectory, use the Vertical Macro-Adjustment Knob** (see Figure 6.)

NOTE: Some off-speed pitches may require adjusting the trajectory using the Vertical Macro-Adjustment Knob (see Figure 6.) first, then fine tuning with the Vertical Micro-Adjustment Knob.

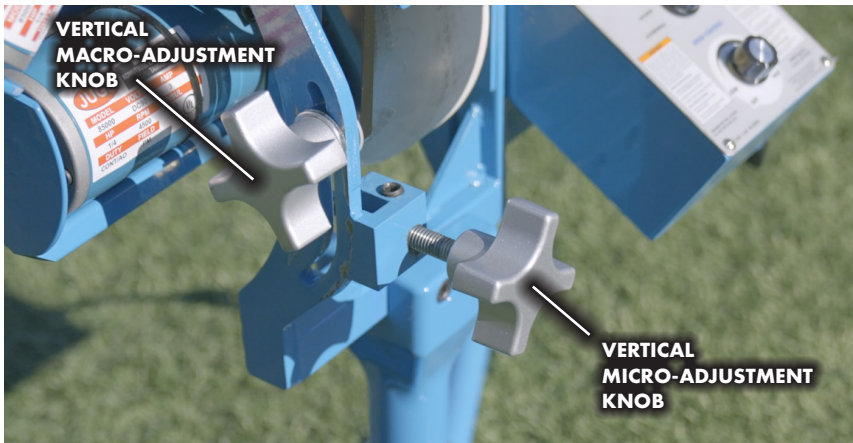



Figure 6.

OPERATION

7. At the beginning of practice, or after any change in speed, curve, trajectory, or type of ball, have the batter stand well clear while at least one test ball is thrown to make sure the ball is thrown at the desired target. If you move the machine for any reason, repeat this process.
8. Throw balls at speeds the batter can learn to hit. As the batter's skills increase you can throw faster pitches.
9. When you increase speed of any pitch, using the Vertical Micro-Adjustment Knob, you must lower elevation of aim; when you decrease speed, you must increase the aim elevation. Use the Vertical Micro-Adjustment Knob to change the elevation up or down.
10. Space all pitches approximately six seconds apart. Try to get the batter to regard each pitch as a "separate" pitch and not to be an "automatic" swinger.
11. Always "show" the ball to batter. When you are certain the batter has acknowledged that she is ready, push the ball through the feed chute.
12. Do not permit more than one or two persons around the pitching machine during its operation.
13. Do not permit the pitching machine to fall on its wheels. This could result in non-warranty damage.
14. Check tightness of all bolts and nuts at regular intervals. If any looseness, vibration, or rattle is noticed, correct immediately before further use.
15. Always turn speed dial to the full counter-clockwise OFF position when throwing is completed or temporarily stopped.

 **WARNING:** Never leave pitching machine unattended.

 **WARNING:** A protective screen must be used to protect the operator and the machine from batted balls.

NOTE: We suggest that each operator spend a couple of hours experimenting with the JUGS mini3™ Pitching Machine. Try many different speed settings. Do not be afraid that any setting you make will harm the pitching machine; however, you should use a wide backstop when experimenting with faster speeds.

OPERATION

Pitching to Batters:

Follow all safety performance instructions in this manual. The following feeding instructions should be used to insure accurate and efficient operation of the JUGS pitching machine.

Important Pitching Machine Feeding Instructions:

- When feeding the machine with JUGS LeatherLast™ Leather Softballs, hold the ball the same way every time. Across the seams is best, especially for breaking pitches.
- Have all batters and observers stand well clear of the target as you throw test balls to adjust trajectory and aiming point.
- **VERY IMPORTANT:** Before you push the ball through the feeding chute, you should look up at the batter and catcher (if one is being used), and make absolutely sure the batter is watching you and is ready to receive the pitch. It is extremely important that you make sure that the immediate area in front of the pitching machine and the flight path of the ball is clear before you feed the balls into the pitching machine.
- When the batter has taken his stance and indicates she is ready to hit, hold the ball high in the air where the batter can see the ball. Then bring the ball down to the chute simulating live action so that the batter can time the ball correctly and push the ball through the feed chute. Watch the ball into the wheels, then look up at the batter. The whole feeding operation should be smooth and without interruption.
- Every batter, after taking her stance, as well as between pitches, goes through a personal readiness routine. The ball feeder should adjust the pitch spacing to each batters' habits accordingly. This will assure that the batter is ready to receive the pitch and will also help to simulate live action. The batter can then regard each throw as a separate pitch and avoid becoming an "automatic swinger". Generally speaking, pitches can be spaced between 6 and 10 seconds apart.

OPERATION

- Out-of-round, soft, mushy, or wet balls will affect accuracy of pitches and must not be used. Mixing different types of balls (leather, rubber, JUGS, etc.) will affect consistency of pitches dramatically. **You must throw only one type of ball at a time.**
- Use only JUGS LeatherLast™, Sting-Free® dimpled, seamed style, Lite-Flite®, polyball or high quality leather softballs in this machine. It is important to adjust trajectory of pitch when changing balls because different ball weights will produce significant changes in trajectory.
- Do not permit more than one or two persons around the pitching machine during its operation.

BATTING HELMETS MUST BE WORN AT ALL TIMES.



- Operators of JUGS Pitching Machines must wear safety glasses and batting helmets at all times.

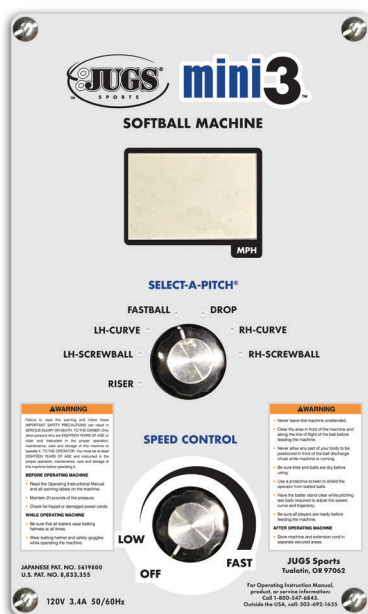


Figure 7. Control Panel.

OPERATION

NOTE: We suggest that each operator spend a couple of hours experimenting with the JUGS mini3™ Softball Pitching Machine. Try many different speed settings. Do not be afraid that any setting you make will harm the pitching machine; however, you should use a wide backstop when experimenting with faster speeds and different pitch selections.

- At the beginning of practice, or after any change in speed, curve, trajectory, or type of ball, have the batter stand well clear while at least one test ball is thrown to make sure the ball is thrown at the desired target. If you move the machine for any reason, repeat this process.
- Throw balls at speeds the batter can learn to hit. As the batter's skills increase you can throw faster pitches.
- When you increase speed of any pitch, using the Vertical Micro-Adjustment Knob, you must lower elevation of aim; when you decrease speed, you must increase the aim elevation. **Use the Vertical Micro-Adjustment Knob and the Vertical Macro-Adjustment Knob to change the elevation up or down.**
- When you change from Fastball to breaking pitch selections, adjust the machine to bring the pitch back into the strike zone.
- Do not permit the pitching machine to fall on its wheels. This could result in non-warranty damage.
- Check tightness of all bolts and nuts at regular intervals. If any looseness, vibration, or rattle is noticed, correct immediately before further use.
- Always turn speed dial to the full counter-clockwise OFF position when throwing is completed or temporarily stopped.

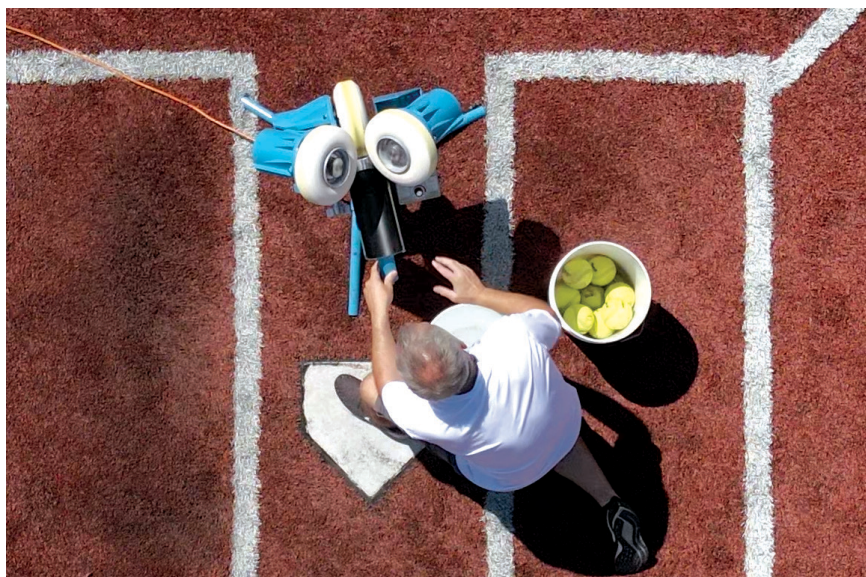
⚠ WARNING: A protective screen must be used to protect the operator and the machine from batted balls.

IMPORTANT: If machine becomes wet during practice, turn off machine immediately, and transport it to a clean, dry location. Dry surface water with a soft, clean cloth and permit machine to completely air dry before next use.

OPERATION—FIELDING

Fielding Practice Absolutes:

1. **VERY IMPORTANT:** Before you place the ball in the feed chute, you should look up at the fielder and make absolutely sure the fielder is watching you and is ready to receive the ball. It is **extremely important** that you make sure that the immediate area in front of the pitching machine and the flight path of the ball is clear before you feed the balls into the pitching machine.
2. When the fielder has taken her stance and indicates she is ready, hold the ball high in the air where the fielder can see the ball. Then bring the ball down to the chute simulating live action so that the fielder can time the ball correctly. Feed the machine and watch the ball into the wheels, then look up at the fielder. The whole feeding operation should be smooth and without interruption.
3. Every fielder, after taking her stance, as well as between pitches, goes through a personal readiness routine. The ball feeder should adjust the throw spacing to each fielder's habits accordingly. This will assure that the fielder is ready to receive the ball and will also help to simulate live action.



OPERATION—FIELDING

mini3™ setup for Fly Balls:

Loosen the Vertical Macro-Adjustment Lever and rotate back the top of the machine so the feed Chute should be pointed upward at desired angle. Degree of angle and speed will determine height and distance of fly ball, (Figure 11.)

Loosening and removing the Horizontal Macro-Adjustment Lever will allow you to aim your fly balls at various parts of the field (Figure 11a.)



Figure 11.



Figure 11a.



OPERATION—FIELDING

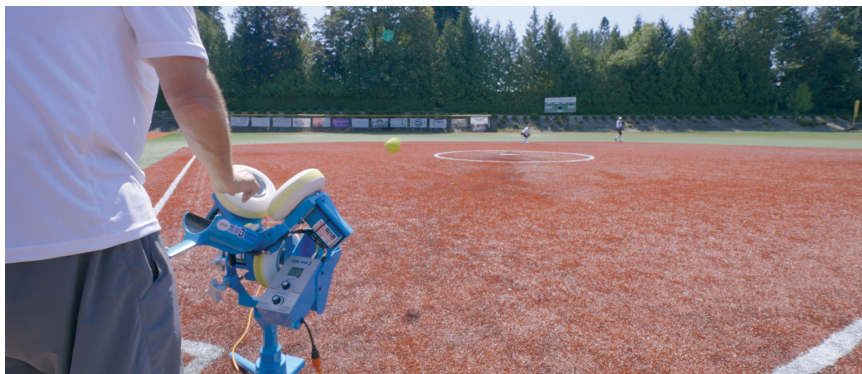


Figure 12.

mini3™ setup for Ground Balls:

Adjust the Vertical Macro-Adjustment Knob to the furthest position forward and adjust the Vertical Micro-Adjustment Knob likewise, (Figure 12.) Remove the Horizontal Macro-Adjustment Lever completely (Figure 12a), to ensure full 360-degree movement and the ability to aim grounders to any location on the field.

NOTE: experiment between using fastballs and off-speed pitches to give your players a real game-like and unpredictable fielding experience.



Figure 12a.

OPERATION—FIELDING

mini3™ setup for Pop-ups to Catcher:

Loosen the Vertical Macro-Adjustment Lever and rotate back the top of the machine completely. Machine should be aimed straight up vertically, (Figure 13.)

Loosening and removing the Horizontal Macro-adjustment Lever (Figure 12a) will allow you to rotate the machine to desired position.

NOTE: When feeding balls into the mini3™ for pop-ups, ball should be entered into the ball chute, resting on back of fingers, and "flicked" into the tires chute.



Figure 13.

Maintenance

Review the following instructions carefully to maintain maximum accuracy with your JUGS Pitching Machine.

- Maintain tire pressure at 20 psi. Upper tires can be filled with the machine in the "pitching position". To access the bottom tire, rotate the machine to the "pop-up" position.

Cleaning:

- Keep machine clean, and free of grit and dirt. Always use a clean damp cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean machine.
- Periodically, you must clean the tires to help maintain their maximum performance. A dirty tire can easily be distinguished by either a dark ring around the tire surface or when the surface itself has turned yellow and has a very glossy or shiny finish.
- In order to begin cleaning you must first inflate the tires to approximately 20 pounds.
- Take medium grade sandpaper (sometimes an even coarser grade is necessary depending on the amount of soil buildup) and begin to scrub the tire surface as you would a very dirty frying pan. This process can be very tedious and could take up to 10 minutes per tire. However, it is necessary in order to completely clean the rubber of all foreign substances, as well as prepare it for better machine performance. You should sand the tires whenever you notice the soil build-up forming. Always sand tires with the power switch OFF and the machine unplugged.

Once you complete this operation the tire surface will, in most cases, take on the white color it was originally. Maintaining the tire in this fashion will not only maximize the performance and accuracy of your machine, but it will extend the life of the tire.

Storage:

- Always store machine and extension cord in separate, clean, dry secured areas. Cover the machine with a JUGS Pitching Machine Cover or suitable dust cover that does not retain moisture. Do not use a plastic cover.

Product Specifications

JUGS mini3™ Specifications:

Motor Specifications:

Variable Speed	30 – 70 mph
Maximum developed horse power	.¼ hp
Volts	.90vDC
Amps	3.4 amps
Hertz	50/60 Hz
RPM (no load)	4200 rpm
Overload protection	yes

Tire Specifications:

Size	.9 x 3.50-4
Pressure	.20 lbs.

Frame Specifications:

Legs	steel tubing
Motor Mount and Base	cast aluminum
Ball Feed Chute	cast aluminum
Overall Height (machine only)	36 in.
Overall Width	32 in.
Overall Weight (machine only)	95 lbs.
Recommended Generator	Yamaha® EF2200 iS Inverter generator - 2200W
Recommended Balls	JUGS LeatherLast™ Softballs and JUGS Sting-Free® Softballs, JUGS Lite-Flite® and JUGS Bulldog™ Polyballs.

IMPORTANT: Servicing requires extreme care and knowledge of the machine and should be performed only by JUGS. For service, we suggest you return the machine to JUGS for repair. Always use original factory replacement parts when servicing.

Some parts can be purchased online at: jugssports.com/Parts-and-Service, or call direct at: 1-800-547-6843.



Warranty

JUGS Sports guarantees that the JUGS® Pitching Machines are well made; of good materials, and workmanship; and agrees that if, within two years after shipment thereof, any part so guaranteed should fail because of defective material or workmanship in its manufacture, the Company will repair or replace such part, free of charge F.O.B. to its factory in Tualatin, Oregon; provided, however, that upon request, the Buyer shall return the allegedly defective part to the Company's factory with transportation charges thereon prepaid. Commercial use of any JUGS product automatically limits this warranty to 30 days after date of shipment.



This warranty shall not be effective if the equipment has been subject to misuse, negligence or accident, nor if the equipment has been repaired or altered outside of our Tualatin factory in any respect which, in judgement, affects its condition or operation.

Please return card below to JUGS Sports.

Warranty Record

JUGS Serial No. _____

Date Delivered: _____

Model: **JUGS mini3™ Softball Machine (M1050)**

Name: _____

Address: _____

Zip: _____

Phone: _____

Purchased From: _____

Type of Activity (Youth League, High School, College, etc.): _____

Coach/Manager Name: _____



In the USA and Canada, call toll free: **1-800-547-6843.**

Internationally, call collect: 0-503-692-1635.

Our fax number is: 503-691-1100.

jugssports.com

Model: **M1050, JUGS mini3™ Softball**

Serial No: _____

Date Delivered: _____

• SAVE THIS PORTION FOR YOUR RECORDS •

PLACE
STAMP
HERE

JUGS, Inc.
P.O. Drawer 365
Tualatin, Oregon 97062

If you need more information about this product or any other JUGS product or service, please contact the manufacturer:



In the USA and Canada,
call toll-free:
1-800-547-6843.

For International Orders,
call collect:
0-503-692-1635.

Our fax number is
1-503-691-1100.

Visit our website at
jugssports.com

Se habla español