



OWNER'S MANUAL

Instructions for the JUGS MVP® Combo Pitching Machine

Model Number: M1601



SAVE THIS MANUAL

ATTENTION, Coaches and Operators of the JUGS MVP® Combo Pitching Machine:

This manual must be kept with the pitching machine at all times.

**Each coach and/or operator must read and understand
the instructions in this manual before using
the JUGS MVP® Combo Pitching Machine.**

**Call 1-800-547-6843 or 503-692-1635
if you need additional copies.**

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>

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<ul style="list-style-type: none">• By using the JUGS MVP® Combo Pitching Machine as your designated pitcher, young baseball and softball players get to hone their swings because pitches arrive in virtually the same location each time. That makes the challenge of hitting a little easier and a lot more fun.	
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Introduction

Your new JUGS MVP® Combo Pitching Machine has been checked for quality and craftsmanship. It's innovative design is backed by over 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, 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. Call or write to JUGS.

JUGS Sports

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Tualatin, OR 97062

Ph: 1-800-547-6843

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Product Safety Signs & 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.

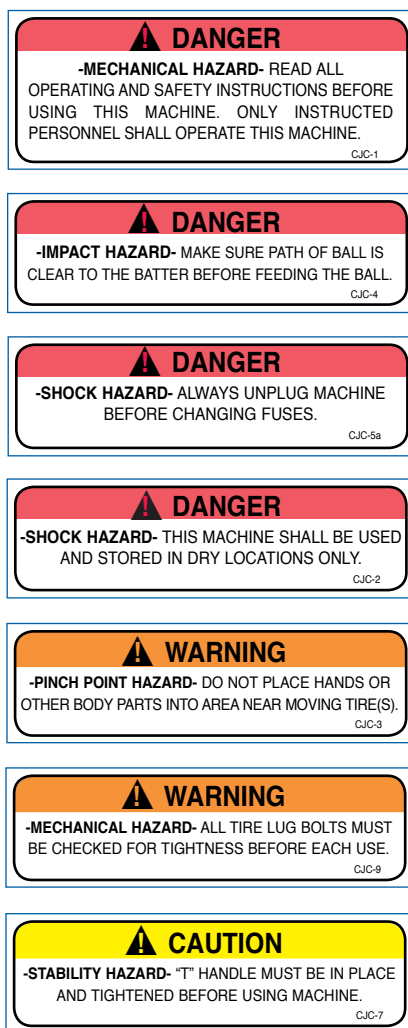





Figure 1

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.
- Use the right ball. Use only JUGS Pearl®, JUGS LeatherLast® Softballs, JUGS Sting-Free® dimpled style balls, Lite-Flite® balls, Softie® balls, Bulldog™ poly balls, high-quality leather baseballs or softballs.
- 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 (A.W.G.) of at least 16 is recommended for an extension cord 25 feet or less 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 (or the edge of the sleeve in the case of fly ball or pop-up practice).
- 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.
- 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.
- Tighten Lock knobs and T-Handles securely after adjusting trajectory.
- To protect the operator, a pitcher's 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 (**See recommended cord gauge notice inside front cover.**) 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.

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

Electrical Connection

Your JUGS pitching machine is powered by a 90 volt motor(s). 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.

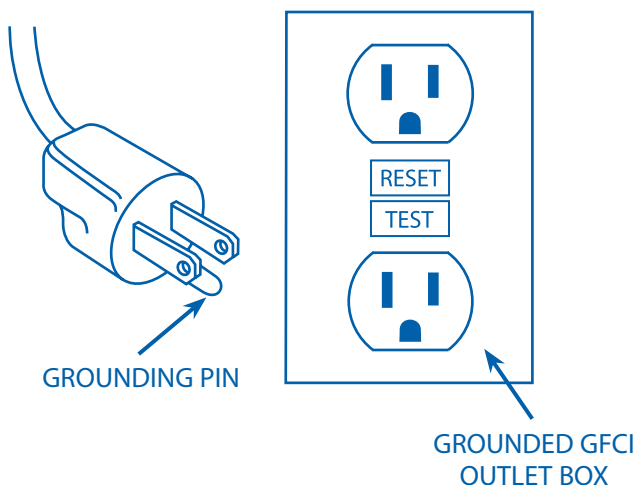
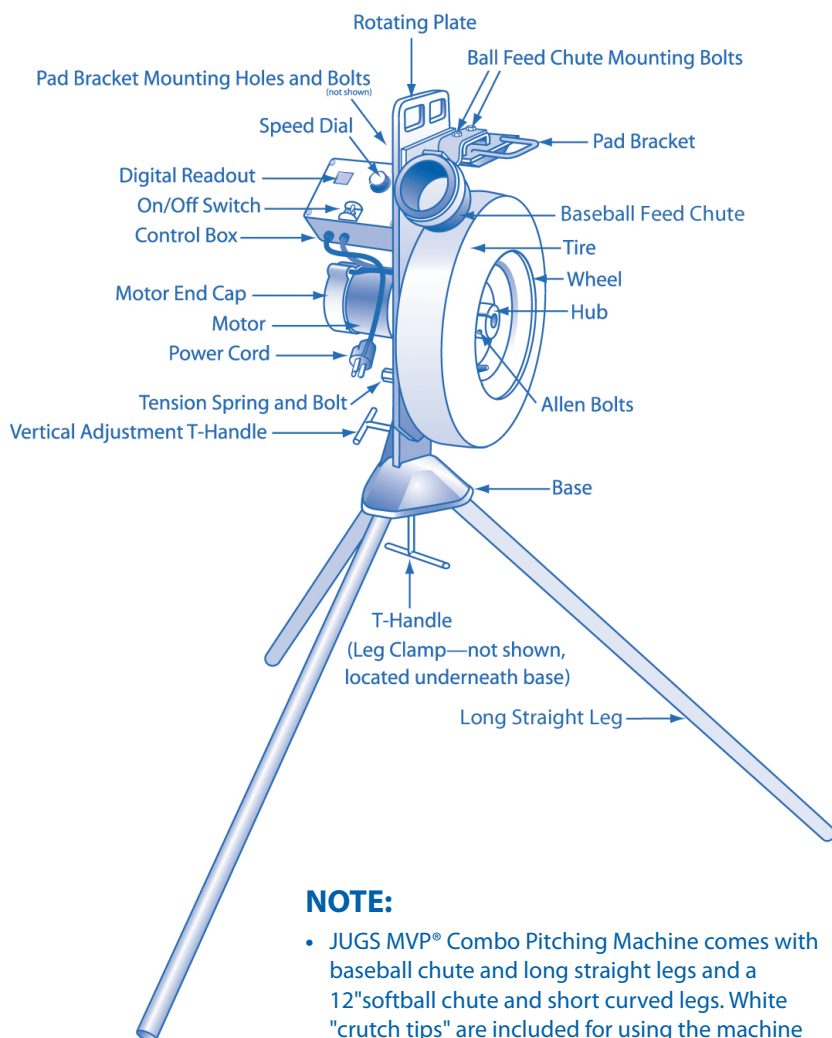


Figure 2

Terminology

Straight Leg Assembly for baseball



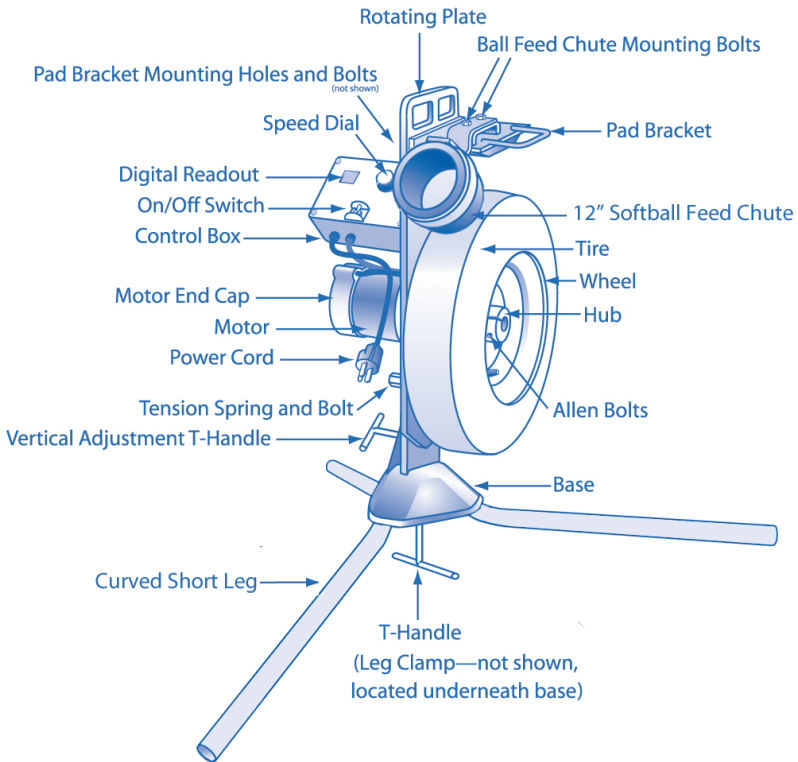
NOTE:

- JUGS MVP® Combo Pitching Machine comes with baseball chute and long straight legs and a 12" softball chute and short curved legs. White "crutch tips" are included for using the machine indoors only.

Figure 3

Terminology


Curved Leg Assembly for softball



Feed Chutes

Figure 4

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.
- Make sure you have all the parts (See Figures 3 and 4). 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.

Assembly

1. Remove T-Handle screw and Leg Clamp from plastic pack with wheel laying flat on the ground.
2. Insert T-Handle through the middle of the Leg Clamp with “claws” of leg clamp on same side as threads of T-Handle (figure 5.)
3. Screw T-Handle into base of pitching machine until threads engage.

Your JUGS MVP® Combo Pitching Machine comes with two sets of legs depending on how you will use it. Use the straight legs for baseball and the curved set of legs for softball. Please read carefully.

Assembly

4. Installing the baseball legs:

- a. Slide the three legs into place. Be sure the end of each leg is completely inserted and in contact with the back of the casting slot.
- b. Hand tighten the base T-Handle and set the "bottom" of the machine on its legs.
- c. If the legs appear wobbly:
 - Make sure the legs are snug and properly placed in the base.
 - Make sure the base T-Handle is turned as tightly, by hand, as possible.
 - Be sure the legs are equidistant from one other (Figure 6).

5. Installing the softball legs:

- a. Install the three legs with the curved part closer to the base (see Figure 11, inside back cover). Use this position for softball. Slide the three legs into place. Be sure the end of each leg is completely inserted and in contact with the back of the casting slot.
- b. Hand tighten the base T-Handle and set the "bottom" of the machine on its legs.
- c. If the legs appear wobbly:
 - Make sure the legs are snug and properly placed in the base.
 - Make sure the base T-Handle is turned as tightly, by hand, as possible.
 - Be sure the legs are equidistant from one other (Figure 6).

NOTE: When using JUGS indoors, be sure the white rubber "crutch tips" are on the legs.

⚠ WARNING: All T-Handles must be tightened securely before using the pitching machine and throwing pitches.

Assembly

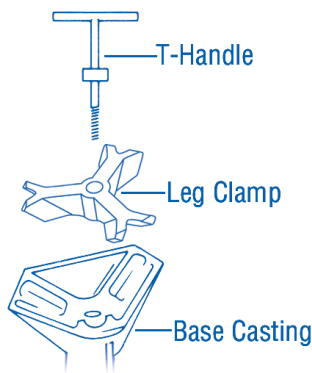


Figure 5

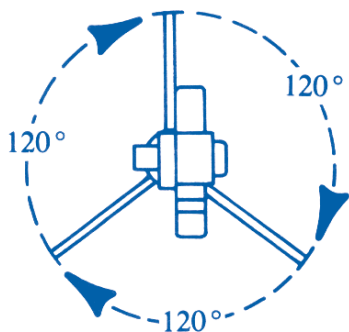


Figure 6

6. Attach the feed chute.

- Remove the bolts holding the rubber pad bracket to the rotating plate (½-inch wrench).
- Select the correct feed chute for your intended use. Your JUGS comes with two feed chutes: the larger one is for softball, the smaller is for baseball (see Figure 9.)
- Attach the selected feed chute to the rubber pad bracket by using the two bolts provided (½-inch wrench).

7. Attach the rubber pad bracket to the rotating plate.

The rotating plate has 2 sets of bolt holes (see Figure 7.) Use the bolts provided to attach the rubber pad bracket to the rotating plate described below (½-inch wrench).

- The upper set of bolt holes is for positioning the rubber pad bracket (and attached feed chute) for both 11- and 12-inch softball use. (11-inch chute sold separately.)
- The lower set of bolt holes is used for baseball.

Assembly

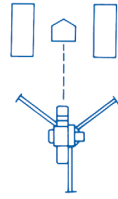


Figure 7

Operation

General Operating Instructions

IMPORTANT: Always position the pitching machine so that two legs are facing the pitching screen and batter, and one leg is facing back, towards the operator.



1. Be sure the control switch is in the "OFF" position.
2. Position the speed dial pointer on the control panel at MINIMUM (see Figure 8.)

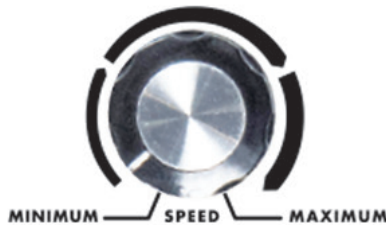


Figure 8

3. Select the correct set of legs for your use.
 - a. Use the straight legs for baseball.
 - b. Use the curved set of legs for softball.
4. Select the correct feed chute for your use (see Figure 9.)



Figure 9

5. Position the rubber pad bracket until the bolt holes line up with the upper bolt holes in the rotating plate for softball use, or the lower bolt holes for baseball, (see Figure 7.)

Operation

6. Connect a 3-wire extension cord (3-prong) into a grounded (3-prong) 110 volt AC outlet (see Figure 2).
7. Move control switch to "ON" position.

⚠ CAUTION: Never loosen the Vertical T-Handle without holding the chute handle.

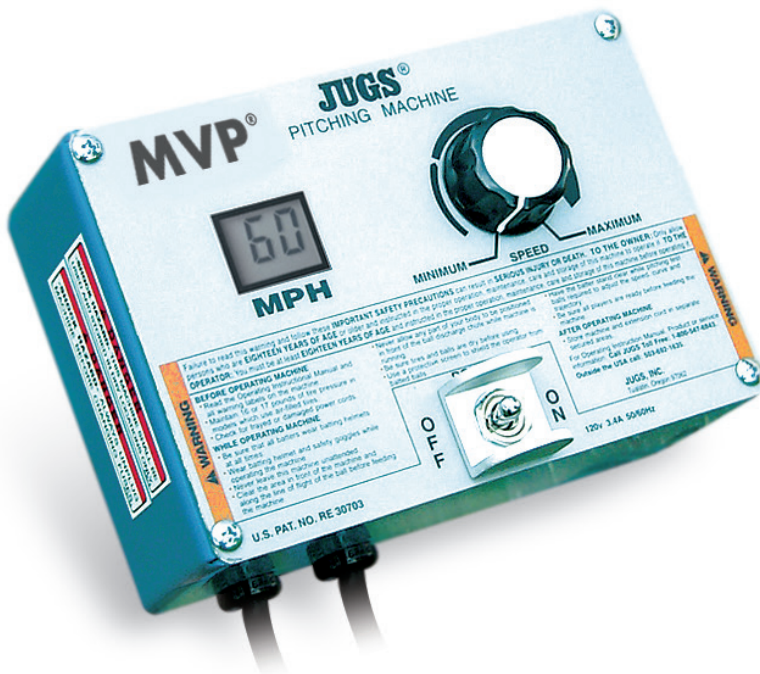


Figure 10. Control Panel

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:

1. When feeding the machine with leather balls, hold the ball the same way every time. Across the seams is best.
2. Have all batters and observers stand well clear of the target as you throw test balls to adjust trajectory and aiming point.
3. **VERY IMPORTANT:** Before you place the ball in the feeding chute, you should look up at the batter 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.
4. 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. For best accuracy, throw only one type of ball at a time.
5. Use only JUGS Pearl®, JUGS LeatherLast® Softballs, JUGS Sting-Free® dimpled style balls, Lite-Flite® balls, Softie® balls, Bulldog™ poly balls, high-quality leather baseballs or softballs.
6. Do not permit more than one or two persons around the pitching machine during its operation.
7. When the batter has taken his/her stance and indicates he or 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. Set the ball in the feed chute and release. Do not drop the ball into the chute. Watch the ball into the wheels, then look up at the batter. The whole feeding operation should be smooth and without interruption.

Operation

8. Every batter, after taking his/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.
9. To adjust the height of the pitch or trajectory for fly balls, loosen the Vertical Adjustment, T-Handle, (located underneath the motor) a half turn. Grab the grip on the rotating plate and pull back toward you (the operator) to raise the height. Push forward away from you (the operator) to lower the height and tighten the handle securely. (You will have to practice this targeting so you will know how to set the machine for each pitch.)
10. Do not permit more than one or two persons around the pitching machine during its operation.

BATTERS—BATTING HELMETS MUST BE WORN AT ALL TIMES.

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

⚠ WARNING: A pitching 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 MVP® Combo Pitching Machine. (You may want to jot down the wheel position and speed dial settings in the space provided on page 30 for future reference). 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.

12. At the beginning of practice, or after any change in speed, or trajectory, 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.

Operation

13. Throw balls at speeds the batter can learn to hit. As the batter's skills increase you can throw faster pitches. The JUGS MVP® is equipped with a digital speed readout (Figure 4) with an accuracy index of approximately ± 2 mph. Always pitch balls at a speed suitable for the age and skill level of the batter. Pitches thrown too fast will be counterproductive and dangerous.
14. When you increase speed of any pitch, you must lower the elevation of aim; when you decrease the speed, you must increase the aim elevation.
15. Do not permit the pitching machine to fall on its wheel. This could result in non-warranty damage.
16. Check tightness of all bolts and nuts at regular intervals. If any looseness, vibration, or rattle is noticed, correct immediately before further use.
17. Always turn the speed dial to the full counter-clockwise position when throwing is completed or temporarily stopped. Then turn toggle switch to the OFF position.

⚠ CAUTION: The wheel will continue to spin for up to two minutes after the power has been shut off. Stay clear of the wheel until it has come to a complete stop before stepping into the line of flight of the pitch or transporting the pitching machine.

Fielding Practice

Fielding Practice

Your JUGS MVP® Combo Pitching Machine can be locked in one position or you can loosen the Vertical Adjustment T-Handle which will allow you to tip the pitching machine up and down.

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 his/her stance and indicates he or 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. Set the ball in the feed chute and release. Do not drop the ball into the chute. 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 his/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.
 - **Fly Balls:** Curved legs must be in when throwing fly balls and the feed chute should be pointed upward.
 - **Ground Balls:** Straight legs must be in when throwing grounders and the feed chute should be pointed downward.

 **WARNING:** Keep hands and fingers away from tire side edges of ball chute.

Pitching Machine League™ Rules



Have you considered starting up a JUGS® Pitching Machine League™ in your community?

Here's why you should:

For youngsters just starting out in the game, nothing is better than repetition of fundamental skills. By using Jugs Pitching Machines, young baseball players get to hone their swings because pitches arrive in virtually the same location each time. That makes the challenge of hitting a little easier and a lot more fun.

The 4 goals of a JUGS Pitching Machine League™ Program:

1. To create enthusiasm and fun
2. To increase the number of players participating in the game
3. To increase offensive opportunities
4. To increase defensive opportunities

NOTE: The best time to teach the fundamentals of the game to your players is during practice. Once the game starts, let your players play. Keep your instructions to a minimum. Remember, JUGS League Games should be played in a hour to and hour-and-a-half or less.

Pitching Machine League™ Rules

Official League Rules

1. Level A is for 5 and 6 year olds. Level B is for 7 and 8 year olds. Level C is for 9 and 10 year olds.
2. Player roster—12 kids per team preferably.
3. In levels A and B all players should be placed in the batting order. No inning is over until the last player has taken his turn at bat.

Option to this rule:

- a. First half of schedule, entire roster bats each inning.
- b. Second half of schedule, 3 outs or 5 runs each inning.

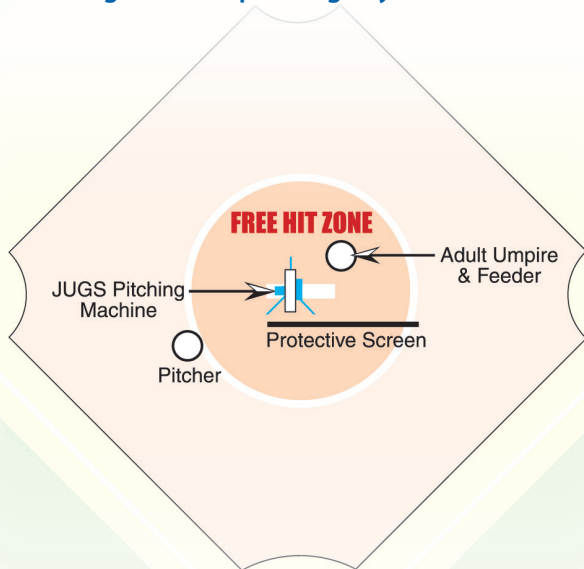
In level C, teams get 3 outs or 5 runs each inning for the entire schedule.

4. In levels A and B, use four outfielders and four infielders. In level C, fielders assume standard baseball positions.
5. In all levels, the catcher takes his normal position.
6. There should be a 10-foot diameter circle chalked around your JUGS MVP® Combo Pitching Machine. This area is called the “free hit zone.”
 - a. Any batted ball that lands in this area is dead, and the hitter is awarded first base.
 - b. Any batted ball that comes in contact with the machine or adult operator is dead. The hitter is awarded first base. All base runners advance one base.
 - c. Players are not allowed to field the ball in this area. A player is placed on the outside of this 10-foot circle and assumes the defensive position of a pitcher—one foot must be the edge of the circle.
 - d. Any batted ball that hits the protective screen is dead. The hitter is awarded first base. All base runners advance one base.

⚠ CAUTION: Players do not feed the machine. A Protective Pitcher's Screen must be used in front of your JUGS Pitching Machine.

Pitching Machine League™ Rules

⚠ WARNING: Do not let players on or around the JUGS machine during operation. Players should never enter the “free hit zone” around the machine. An adult feeding the machine should always be ready to restrict the entry of players into the “free hit zone,” especially in the event of an infield fly ball or pop-up. The protective screen is to be used at all times. You must read all instructions and warnings before operating any JUGS machine.



7. No one player should sit on the bench for more than one inning. All players should sit on the bench for one inning.

NOTE: It is a good idea to rotate the players to a different position every inning.

8. Free substitution is allowed for the team in the field.
9. Games are seven innings. There are no extra-inning games in levels A and B, so tie games are possible. In Level C, tie games can go into extra innings.

Pitching Machine League™ Rules

10. Each batter gets a maximum of five pitches to put the ball in play. The batter is out after the fifth pitch.

NOTE: For younger-age players (level A), after 5 pitches use a hitting tee.

11. Stealing is not allowed in level A and B.
12. Stealing is permitted in level C. Runners may leave their base once the ball touches the catcher's glove or body.
13. There is no "infield fly" rule for levels A and B.
14. The "infield fly" rule is in effect for level C.
15. There are no base-on-balls.
16. Only one umpire is necessary. The umpire is responsible for operating the JUGS machine and umpiring the bases. No balls or strikes are called.
17. All other standard rules of baseball apply.

Recommended Pitching Machine Speed Settings for League Games

1st half of schedule:

Level A: 31 mph at 35 feet.

Level B: 34 mph at 40 feet.

Level C: 40 mph at 46 feet.

NOTE: If your JUGS Machine is placed at the proper distance from home plate there should be no visible arch to the pitched ball.

NOTE: Move the JUGS Machine closer to home plate and slow it down for less skilled teams.

Pitching Machine League™ Rules

2nd half of schedule:

Level A: 34 mph at 35 feet.

Level B: 38 mph at 40 feet.

Level C: 43 mph at 46 feet.

NOTE: If you own an older JUGS Machine that doesn't have a Digital Speed Readout or Dial-A-Speed™, refer to Speed Charts below.

Level A, set dial to:

39 to get 31 mph @ 35 ft.

45 to get 34 mph @ 35 ft.

Level B, set dial to:

45 to get 34 mph @ 40 ft.

55 to get 38 mph @ 40 ft.

Level C, set dial to:

60 to get 40 mph @ 46 ft.

68 to get 43 mph @ 46 ft.

If you have any questions regarding these dial settings please contact us toll free at: 1-800-547-6843, or call collect: 1-503-692-1635.



Transporting

1. Using the Vertical T-Handle, lock the rotating plate in “fly ball” position (vertically upward).
2. Slowly tip machine over until tires rest on the ground. Grasp and lift two legs and roll on wheel to new position as you would a wheelbarrow. The JUGS pitching machine will fit in the trunk of a car by removing it's legs.
3. Do not roll tire on surfaces that might damage the tire. If the tire becomes deformed, flat, or damaged, it must be repaired before using the machine. (See tire specifications, Page 29.)

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

Maintenance

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

- Maintain tire pressure at 16 to 17 psi (25 psi for tennis balls).

NOTE: If you have an older MVP® model with an uninflatable tire, disregard tire pressure criteria.

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.
- 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 suitable dust cover that does not retain moisture. Do not use plastic.

Product Specifications

JUGS MVP® Combo Product Specifications:

Motor Specifications:

Variable Speed

Speed Range	15–60 mph
Maximum developed horse power	¼ hp
Volts	90v DC
Amps	3 amps
Hertz	50/60 Hz
RPM (no load)	1900 rpm
Overload protection	yes

Tire Specifications:

Size	4.00/4.80-8
Pressure	16-17 lbs.

Frame Specifications:

Legs	steel tubing
Motor Mount and Leg Clamp Casting	cast aluminum
Ball Feed Chute	cast aluminum

Set up for Baseball:

Height	53 in.
Width	56 in.
Weight	70 lbs.

Set up for Softball:

Height	33 in.
Width	42 in.
Weight	70 lbs.

Recommended Generator	Yamaha® Generator 2000
Recommended Balls	JUGS Balls, high quality leather baseballs or softballs

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.

Operator Notes

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.

JUGS SPORTS
11885 SW Herman Rd., Tualatin, OR 97062



CUT AND RETURN CARD BELOW TO JUGS SPORTS



Warranty Record

JUGS Serial No. _____ Date Delivered: _____

Model: **JUGS MVP® Combo M1601**

Name: _____

Address: _____

Phone: () _____

Purchased From: _____

Activity if other than school: (i.e. Little League®, American Legion™, etc.) _____

Coach/Manager Name: _____



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

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

Fax us: 503-691-1100

Visit our website: jugssports.com

JUGS MVP® Combo M1601

Model

Serial No.

Date Delivered

↑ **SAVE THIS PORTION FOR YOUR RECORDS** ↑

PLACE
STAMP
HERE

JUGS Sports
P.O. Box 365
Tualatin, Oregon 97062



Figure 11: Correct softball leg and 12" Chute configuration.

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.