OWNER’S MANUAL

Instructions for the

JUGS FIELD GENERAL™

FOOTBALL MACHINE

Part No. M1750 (110V)
Part No. M2750 (220V)
ATTENTION,
Coaches and Operators
of the JUGS FIELD GENERAL™:

This manual must be kept with the machine
AT ALL TIMES.

Each coach and/or operator
must read and understand the instructions in this manual
BEFORE USING
the JUGS FIELD GENERAL™ FOOTBALL MACHINE.

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

Drills featuring the JUGS FIELD GENERAL™ can be found at www.jugssports.com
Introduction

Your new JUGS FIELD GENERAL™ football machine has been checked for quality and craftsmanship. Its innovative design is backed by three 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 ball-throwing machines, making them easy to operate and maintain. With proper care, your JUGS FIELD GENERAL™ football 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.

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.
Carefully read all safety-sign decals affixed to the machine before operating your JUGS FIELD GENERAL™ Football Machine. See some typical examples below.

**WARNING:** JUGS FIELD GENERAL™ Football 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 Owner’s 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 FIELD GENERAL™ football 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 FIELD GENERAL™ football 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**

- **Inspect extension cords periodically** and replace them 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 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 a cord to disconnect it from a receptacle. Keep the 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.

- **Any person near this machine must always wear safety glasses and football 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 wheels.** While pushing the passing/kicking slide, hands and fingers should not go beyond feed-bar bearing.

- **Inspect the machine before every use.** If damaged, have it repaired by a qualified JUGS service technician.

- **Inspect the wheels before every use.** Be sure the wheels are free of grit and debris before turning on the machine.

- **Do not use the machine if the 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 the 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 the machine.

- **Tighten all T-Clamps securely** after adjusting the trajectory.

- **Operate and store this machine only in a clean, dry location.** Do not use it outdoors if it is raining. If machine becomes wet, do not use it. A potential shock hazard exists if this machine is used while or after it has been exposed to water. Hand-dry surface water from the 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 wheels. **ALWAYS** make sure you have good footing and balance.

- **Use only JUGS technicians and JUGS 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 the machine before disconnecting it from a power source. **Never leave the machine running unattended.** Turn the power off. Do not leave the machine until the wheels come to a complete stop.

- **Always unplug the machine when it is not in use.**
**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 on yourself or others.

SAVE THIS MANUAL. Refer to it often and use it to instruct other users. Do not loan your football 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 you are 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.

**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 or 220-voltage if applicable. 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](image)
**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 machine should never be connected to a power supply when you are assembling parts, making adjustments, cleaning, servicing or when not in use.

1. Carefully lift the machine from its carton and place it on a level surface.

2. 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.

3. 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 the switch until the damaged or missing parts are obtained and are installed correctly.
**Machine Assembly**

1. With the tire-side down, place the triangular leg clamp in the leg clamp casting.
2. Insert the threaded end of the Leg T-Clamp through the center hole in the leg-clamp casting and start the threads.
3. Install one leg in each round hole in the center piece of the leg clamp casting. Tighten the Leg T-Clamp sufficiently to hold the legs in place very snugly.
4. Place the crutch tips on the lower end of the legs if your JUGS machine is to be used indoors. The crutch tips are not recommended for outdoor use.
5. Lift the football machine upright and onto its legs.

**IMPORTANT:**

Always set up the machine so that two legs are positioned in front, facing the target, and one leg facing back toward the operator.

1. Check the speed dial and make sure it is in the full counter-clockwise position (pointer at the “0” setting) and the toggle switch is in the OFF position.
2. Plug a heavy-duty, No.-16-gauge three-prong, extension cord into a 110-volt (or 220-volt if applicable) GFCI outlet and connect it to the short cord on the pitching machine.
3. Loosen the Horizontal T-Clamp and position the machine to aim at the desired target. Re-tighten the T-Clamp. Adjust the desired ball trajectory by using the Elevating T-Clamp. (You will have to practice this targeting to learn how to set the machine for each pass).

**Transport**

The JUGS FIELD GENERAL™ Football Passing Machine can be moved quickly and easily by using the black Transport Tire.

1. Make sure the FIELD GENERAL™ is turned off and the wheels are NOT spinning.
2. Remove the Passing/Punting Slide from the machine.
3. Loosen the Elevating T-Clamp and rotate the Motor Mount Assembly completely back. Tighten the Elevating T-Clamp.
4. Slowly tip the machine over, onto the black tire. front of the machine as shown below.

- Do not use the white ball-throwing wheels for moving this machine.

**WARNING:** Never leave machine unattended.
Slide Assembly

Figure 4a: Place the Slide Stop in the “up” position, as shown, and tighten the wing nut.

Figure 4b: Standing behind the machine insert the Passing Slide as shown.

Figure 4c: Loosen the wing nut on the Slide Stop and rotate to the bottom position and tighten the wing nut.

Figure 4d: The Passing Slide is in the correct position when the motor is on the left side.

Operation

CAUTION: Football Helmets must be worn at all times.

IMPORTANT:
Always throw balls at speeds suitable for the age and skill level of the receiver. Passes or punts which are too fast for the receiver will be counterproductive and dangerous.

WARNING: The horizontal adjustment and T-Clamps must always be tightened securely before throwing passes. All lock knobs and T-Clamps must also be tightened firmly before using the JUGS FIELD GENERAL™ Football machine.
Operation

Follow all safety-performance instructions in this manual. The following ball-feeding instructions should be used to insure accurate and efficient operation of the JUGS FIELD GENERAL™ Football Machine.

Important FIELD GENERAL™ Football Machine Feeding Instructions:
1. Hold the ball seams (leather stitching) up every time.
2. At the beginning of practice, or after any change in speed or trajectory, have the receivers stand well clear while a sufficient number of test balls are thrown to make certain the machine is properly aimed at the intended target. If you move the machine for any reason, repeat this process.
3. Do not permit more than one or two people around the football machine during operation.
4. VERY IMPORTANT: Before you place the ball on the passing/punting slide, you should look up at the receiver and make absolutely sure he or she is watching you and is ready to receive the ball. It is extremely important that you make sure that the area immediately in front of the football machine and the flight path of the ball is clear before you feed the balls into the football machine.
5. When the receiver has indicated he or she is ready, hold the ball high in the air where the receiver can see the ball. Then bring the ball down to the slide. Watch the ball as it slides toward the wheels, then look up at the receiver. The whole feeding operation should be smooth and without interruption.
6. Throw balls at speeds at which players can effectively learn the desired skills. Balls thrown too hard will be counterproductive and dangerous. You can adjust the speed as the player’s skills increase. Generally speaking, passes can be timed about 6 seconds apart.
7. Deformed, soft, or wet balls will affect the accuracy of passes or punts and must not be used. Mixing different types of balls (leather, rubber, etc.) will affect consistency of throws or punts. Throw only one type of football at a time.

NOTE: We suggest that each operator spend a couple of hours experimenting with the JUGS FIELD GENERAL™ Football Machine.

Throwing Spirals
Follow these four steps for passing or punting spirals:

a. Place the ball into the cone.
b. Hold the ball in place with one hand placed lightly on the top.
c. Push the slide towards the wheels.
d. The ball will spiral smoothly towards the target.
Review the following instructions carefully to maintain maximum accuracy with your JUGS FIELD GENERAL™ Football Machine.

Maintain tire pressure at 16 to 17 psi.

Cleaning

- Keep the 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 the machine.

- Periodically, you must clean the wheels to help maintain its maximum performance. Dirty wheels can easily be distinguished by either a dark ring around the wheel surface or when the surface itself has turned yellow and has a very glossy or shiny finish.

- Using medium-grade sandpaper (sometimes an even coarser grade is necessary, depending on the amount of soil buildup), begin to scrub the tire surface. This process can be very tedious and may take up to 10 minutes per tire. However, it is necessary to completely remove all foreign substances from the tires to prepare them 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 the 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 FIELD GENERAL™ Football Machine

Product Specifications:

Motor Specifications:
- Variable Speed
- Maximum-developed horsepower .................................. 1/4 hp
- Volts .............................................................................. 90vDC
- Amps ........................................................................ 2.8 amps
- Hertz ........................................................................... 50/60 Hz
- RPM (no load)................................................................. 1800 rpm
- Overload protection ....................................................... yes

Wheel Specifications:
- Size .............................................................................. 4.10/3.50-6
- Pressure ....................................................................16-17 psi

Frame Specifications:
- Legs .............................................................................. steel tubing
- Motor-Mount and Leg-Clamp Casting .............. cast aluminum
- Slide .................................................................. cast aluminum
- Overall Height .............................................................. 56 in.
- Overall Width ............................................................ 39 in.
- Overall Weight ........................................................... 95 lbs.
- Recommended Generator .............. Yamaha® EF1000iS
- Recommended Balls ................................ Wilson, Nike, Spalding and Rawlings Leather Footballs

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.
JUGS Sports guarantees that the JUGS® Ball-Throwing Machines are well made; of good materials and workmanship; and agrees that if, within five 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 our judgment, affects its condition or operation.

• RETURN PERFORTATED CARD BELOW TO JUGS SPORTS •
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.


Se habla español.