



# OPERATOR & SERVICE MANUAL

## MODEL: 25CMP Wheelbarrow & 25CMPT Pedestal



### CHAMPION® PLASTIC CONCRETE MIXER

A 100% employee-owned American manufacturer

# HEALTH & SAFETY

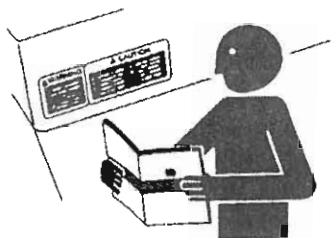
## Safety Precautions

Before using this equipment, study this entire manual to become familiar with its operation. Do not allow untrained or unauthorized personnel, especially children, to operate this equipment. Use only factory authorized parts for service.

When warning decals are destroyed or missing, contact the Manufacturer immediately at 1-800-888-9926 for replacement. For the safety of yourself and others, it is imperative that the following rules are observed. Failure to do so may result in serious injury or death.

### FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages and decals in this manual and on your machine safety signs. Keep decals in good condition. Replace missing or damaged decals. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs and decals are available through your dealer.



Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.



This notation appears before warnings in the text. It means that the step which follows must be carried out to avoid the possibility of personal injury or death. These warnings are intended to help the technician avoid any potential hazards encountered in the normal service procedures. We strongly recommend that the reader takes advantage of the information provided to prevent personal injury or injury to others.

**▲ DANGER**

**▲ WARNING**

**▲ CAUTION**

### UNDERSTAND SIGNAL WORDS

A signal word – DANGER, WARNING, or CAUTION – is used with the safety-alert symbol. *DANGER identifies the most serious hazards.*

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

# HEALTH & SAFETY

## Safety Precautions

### USE COMMON SENSE WHEN HANDLING FUELS



- Transport and handle fuel only when contained in approved safety container.
- Do not smoke when refueling or during any other fuel handling operation.
- Do not refuel while the engine is running or while it is still hot.
- If fuel is spilled during refueling, wipe it off from the engine immediately and discard the rag in a safe place.
- Do not operate the equipment if fuel or oil leaks exist - repair immediately.
- Never operate this equipment in an explosive atmosphere.



- Always use the proper size grounded extension cord, conforming to the National Electric Code and Local Ordinances.
- Inspect all extensions and electrical cords for cuts, frayed wire and broken connectors before use. Do not use cords if not in good condition.
- Do not route extension cords through standing water.
- Do not operate the mixer in standing water.
- When cleaning the mixer, never spray water on the electric motor.



### HOT SURFACES

- Avoid contact with hot exhaust systems and engines.
- Allow all components in the engine compartment to cool before performing any service work.

## WARNING

- Never leave mixer unattended while running.
- Mix only concrete.

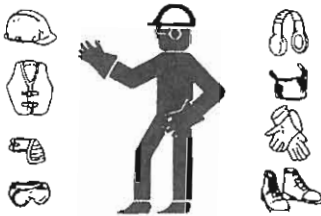
# HEALTH & SAFETY

## Safety Precautions



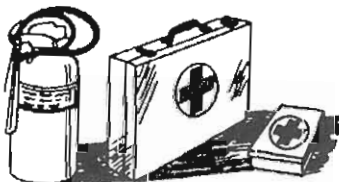
- Never perform any work on the mixer while it is running.
- Before working on the mixer, stop the engine and disconnect the spark plug wire(s) to prevent accidental starting. On electric models, disconnect the electric cord at the mixer.
- Keep cowl closed and latched during the operation, close and latch cowl immediately after starting.
- Keep hands, clothing and jewelry away from all moving parts.
- Keep all guards in place, including drum guards.
- Never place your hands or any solid object into the drum while the mixer is in operation.

### WEAR PROTECTIVE CLOTHING



- Wear close fitting clothing and safety equipment appropriate to the job.
- Prolonged exposure to loud noise can cause impairment or loss of hearing.
- Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.
- Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

### PREPARE FOR EMERGENCIES



- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



### Warning-Eye Protection

- Always wear splash goggles when operating mixer.



- Starting fluid (ether) is highly flammable, do not use or an explosion or fire may result.



- Never operate unit in a poorly ventilated or enclosed area.
- Avoid prolonged breathing of exhaust gases.
- Engine exhaust fumes can cause sickness or death.

# OPERATION

## Before Starting/Hardware/Start & Stop Electric Motor

### BEFORE STARTING

The 25CMP mixer is shipped completely assembled and ready for operation.

Plug into any 115 single phase, 60-cycle, fused outlet. Check belt tension and tracking.

## WARNING

**TO PREVENT ANY ACCIDENTAL STARTING, MAKE SURE THE ELECTRIC CORD IS DISCONNECTED.**

### HARDWARE

Check all hardware on mixer before starting. Consult the TORQUE CHART section of this manual and tighten any loose hardware accordingly.

### TO START THE ELECTRIC MOTOR

Use the proper size (3) wire (grounded) extension cord, conforming to the National Electric Code and Local Ordinances. **DO NOT** use (2) wire extension cords. Check any extension cord which you plan on using carefully for broken connectors, bare wires, or damaged insulation. **DO NOT** use any cord found to be in poor condition. Make sure the extension cord is not routed through standing water and that all connections are tight. Use the shortest extension cord possible. Turn motor on.

### TO STOP THE ELECTRIC MOTOR

Disconnect the power cord.

### OPERATION

Start the motor as instructed.

With drum operating between 25-30 RPM's, the mixer is now ready for the addition of the concrete mix. For best results proceed as follows:

1. Pour the required amount of water into drum.
2. Add the required amount of gravel.
3. Add the required amount of cement.
4. Add the required amount of sand.

By adding the water and gravel first the drum will be kept clean and a good tumbling action will be maintained when cement and sand are added. Discharge the mixer and immediately pour in the required water for the next batch.

### CAPACITIES

\* Maximum batch size depends on mix and type of aggregate used.

Total Drum Volume	3.5 cu. ft.
Max Batch Size*	2 cu. ft.

# OPERATION

## How to Mix Concrete/How to Mix Sand & Gravel/Maintenance & Lubrication

### How to Mix Concrete

1. You will need approximately 2-1/2 gallons of water
2. 2-80 lb. bags of pre-mix concrete
3. Start mixer in motion
4. Put in 2-gallons of water
5. Add 1-80 lb. bag of pre-mix concrete

**Note: Mixture will be very sloppy**

6. Slowly add second bag of concrete
7. Add 1/2 gallon of water slowly to obtain desired thickness

### How to Mix Sand and Gravel

1. Use an 8-1/2 x 12-inch square point shovel
2. Portland cement, gravel or round stone and masonry sand
3. Start mixer in motion
4. Put in 2 gallons of water
5. Add 6 shovels full of gravel or round stone
6. Add 2 shovels full of Portland Cement
7. Slowly add 4 shovels full masonry sand

**Note: Water will vary according to moisture content of sand and gravel**

## WARNING

**NEVER POUR OR SPRAY WATER ON THE MOTOR.**

**NEVER PLACE HANDS OR ANY OBJECT INTO THE DRUM WHILE THE MOTOR IS RUNNING**

**ALWAYS DISCONNECT THE ELECTRIC CORD WHEN CLEANING INSIDE THE DRUM.**

### MAINTENANCE and LUBRICATION

To get long and trouble-free service from this mixer, it is essential that you perform periodic maintenance.

Adjust belt as required by loosening the (4) motor mount bolts and moving motor as necessary. Retighten these bolts after adjustment. The belt should deflect approximately 1/4 inch at the halfway point when 5-10 lbs of pressure is applied.

Adjust pinion/gear mesh as required by loosening the two (2) pinion jackshaft bolts and moving jackshaft as necessary. Retighten these bolts after adjustment.

Grease after each use through the (2) fittings provided. Use any Grade #1 lithium based grease. **DO NOT** grease or oil the gear. This will attract sand and cause excessive wear.