

Kelso
TRADE TOOLS

ASSEMBLY INSTRUCTIONS MANUAL

KC3.5FT



3.5CF 100L COMPACT FRONT TIP CEMENT MIXER

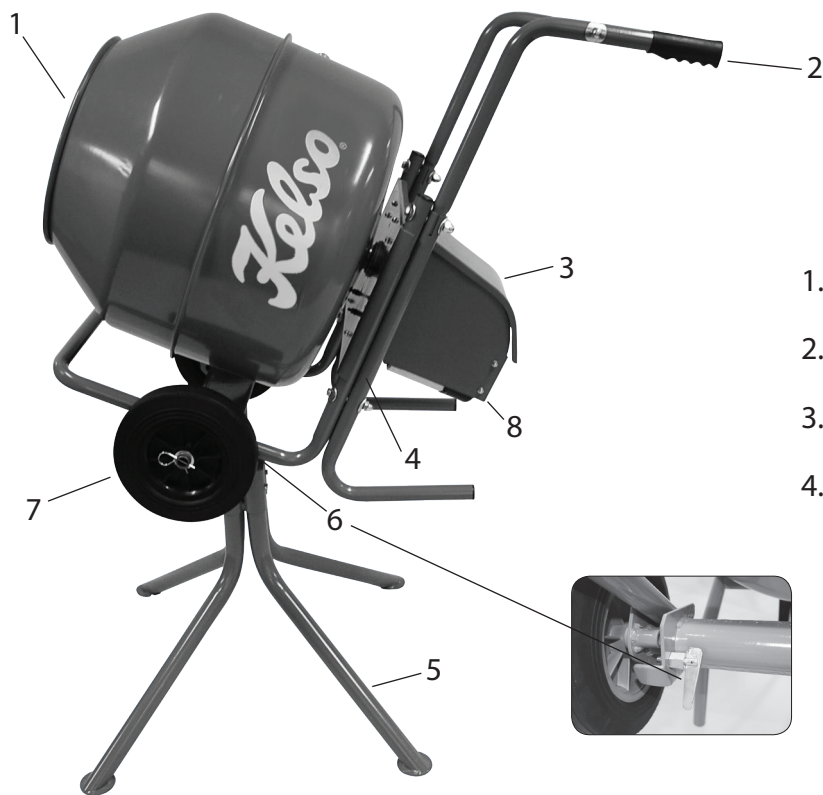
Carefully read through the entire Instruction Manual before using your new Kelso Cement Mixer. Take special care to heed the Cautions and Warnings. Your Kelso Cement Mixer has many features that will make the job faster and easier. Safety, performance and dependability have been given top priority to ensure easy operation and maintenance.

SAVE THIS MANUAL FOR FUTURE REFERENCE

CONTENTS

| | | | |
|--|----------|---------------------------|-----------|
| <u>Product Description</u> | <u>3</u> | <u>Maintenance</u> | <u>11</u> |
| <u>Tools Required for Assembly</u> | <u>3</u> | <u>Operation</u> | <u>11</u> |
| <u>Description of Symbols</u> | <u>4</u> | <u>Cleaning</u> | <u>12</u> |
| <u>Specifications</u> | <u>4</u> | <u>General Inspection</u> | <u>12</u> |
| <u>General Safety Rules</u> | <u>4</u> | <u>Repairs</u> | <u>12</u> |
| <u>Additional Safety Rules for Cement Mixers</u> | <u>5</u> | <u>Power Cord</u> | <u>12</u> |
| <u>Product Contents</u> | <u>7</u> | <u>Warranty</u> | <u>12</u> |
| <u>Assembly Instructions</u> | <u>8</u> | <u>Contact Details</u> | <u>12</u> |

PRODUCT DESCRIPTION



- | | |
|----------------------|------------------|
| 1. Cement Mixer Bowl | 5. Stand |
| 2. Tipping Handles | 6. Tipping Lever |
| 3. Motor Housing | 7. Wheels |
| 4. Frame | 8. On/Off Switch |

TOOLS REQUIRED FOR ASSEMBLY

- 6mm, 10mm & 16mm Spanners (Open or Ring)
- Ratchet
- 6mm, 10mm & 14mm Sockets
- Pliers

Note: If you have access to an Impact Driver this will help to reduce the assembly time.

DESCRIPTION OF SYMBOLS

The rating plate on your cement mixer may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection, eye protection and breathing protection



Earthed Appliance



Conforms to relevant standards for electromagnetic compatibility

SPECIFICATIONS

| | |
|---|---|
| Nominal voltage: | 230 – 240Vac, 50Hz |
| Power Output: | 370W |
| Capacity: Gross Bowl Volume Unmixed Dry Volume Mixed Wet Volume | 130 litres (4.6cf) 100 litres (3.5cf) 85 litres (3cf) |
| Bowl Mouth Diameter | 370mm |
| Bowl Speed | 23 RPM |
| Motor Speed | 1440 RPM |
| Net Weight: | 64 KG |

GENERAL SAFETY RULES

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) cement mixer.

1. Work area safety

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.

- Do not operate power tools in explosive atmospheres, such as the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions may cause you to lose control.
- This power tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the power tool.

2. Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- To reduce the risk of electric shock, the manufacturer recommends the use of a residual current device with a rated residual current of 30mA or less at all times.

3. Personal Safety

- a. Stay alert, watch what you are doing and use common sense when operating the power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injury.
- c. Prevent unintentional starting. Ensure the switch is in the off-position before connecting the power source, picking up or carrying the tool.
- d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

4. Power tool use and care

- a. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. Store idle power tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- e. Maintain power tools. Check for misalignments or binding of moving parts, breakage of parts and any other condition that may affect the power tools' operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f. Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

ADDITIONAL SAFETY RULES FOR CEMENT MIXERS

- Read and understand the owner's manual and labels affixed to the mixer. Learn its application and limitations as well as the specific potential hazards peculiar to it.
- Do not operate the mixer while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.
- Check your mixer before turning it on. Keep guards in place and in working order. Form a habit of checking to see that keys and adjusting wrenches are removed from tool area before turning it on. Replace damaged, missing or failed parts before using it.
- Always wear safety goggles and/or face shields. Any mixer may throw foreign objects into the eyes. This can cause permanent eye damage. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses.
- Improper use of extension cords may cause inefficient operation of the mixer which can result in overheating. Be sure the section of extension cord is enough to allow sufficient current flow to the motor. Avoid use of free and inadequately insulated connections. Connections must be made with protected material suitable for outdoor use.
- Check that the electric circuit is adequately protected and that it corresponds with the power, voltage and frequency of the motor.

- Check that there is a ground connection. Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the mixer.
- The mixer is not to be towed by any vehicle.
- Do not overload the bowl. It will do a better job and safer job at its designed rate. Don't use the mixer for a purpose for which it was not intended.
- Do not attempt to unload the materials until the mixer has stopped. Keep hands out of the way of all moving parts.
- This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.
- Young children should be supervised to ensure that they do not play with the appliance.
- Check the power cord. Never use a faulty or damaged power cord.
- If the power cord is damaged take the mixer to an authorised service centre for repair or replacement.
- Never attempt any repairs yourself, always take it to an authorised service centre for repair or parts replacement.
- Keep the cement mixer and your work place clean of debris and any unnecessary objects.
- Keep the area free of tripping hazards.
- Persons working with the machine should not be distracted.
- Periodically check that all nuts, bolts and other fixings are properly tightened.
- Adjustments, measurements and cleaning jobs are to be performed only when the motor is switched off and the mains plug removed.
- When you leave your workplace, switch off the motor and pull out the power plug.
- It is imperative to observe the accident prevention regulations in force in your area as well as all other generally recognised rules of safety.
- Never use the cord for any other purpose other than that for which it is intended.
- Unless otherwise stated in these instructions, damaged safety devices and parts must be repaired or replaced by an authorised service facility.
- This tool complies with the pertinent safety regulations.
- Electrical repairs are to be carried out only by qualified electricians at authorised service centres, using original replacement parts. The user may suffer an accident if this condition is not observed.
- Always switch the mixer on, when the bowl is empty, before loading the unit with mixing materials.
- Do not place the shovel into the bowl while it is rotating.

CAUTION

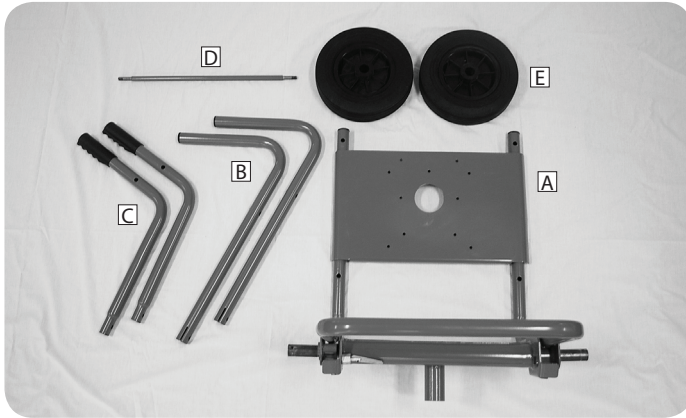
It is strongly recommended to use an RCD safety switch when using this product.

- ✓ Wear hearing protection.
- ✓ Wear eye protection.
- ✓ Wear breathing protection.

PRODUCT CONTENTS

Frame Assembly Contents

| | | |
|---|------------------|---------|
| A | Main Frame | 1 unit |
| B | Leg Section | 2 unit |
| C | Handle Section | 2 units |
| D | Handle Cross Bar | 1 unit |
| E | 10" Solid Wheel | 2 units |



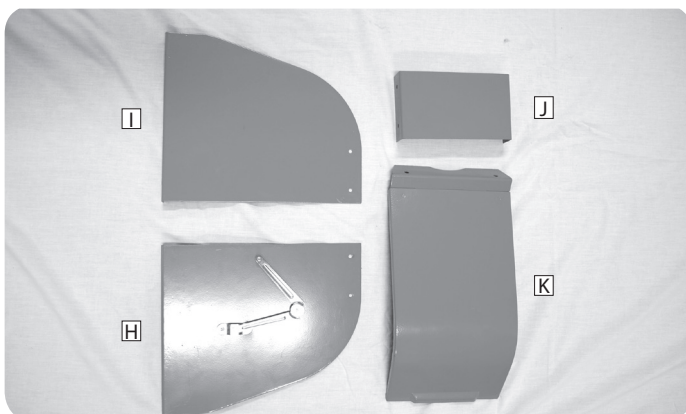
Motor & Bowl Assembly Contents

| | | |
|---|--|--------|
| F | 1/2 HP Motor (includes a flat washer, spring washer and nut on all 4 fixing points) | 1 unit |
| G | Bowl | 1 unit |



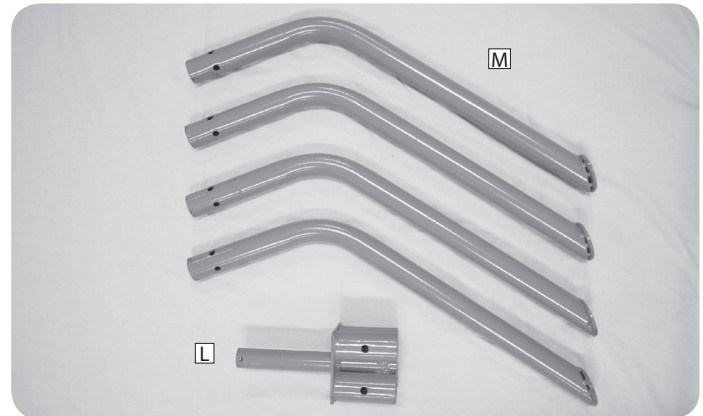
Motor Cover Assembly Contents

| | | |
|---|--|--------|
| H | Left Cover with Hinge (includes an M4x10 Hex Head Bolt & Nut) | 1 unit |
| I | Right Cover | 1 unit |
| J | Back Cover | 1 unit |
| K | Top Cover | 1 unit |



Stand Assembly Contents

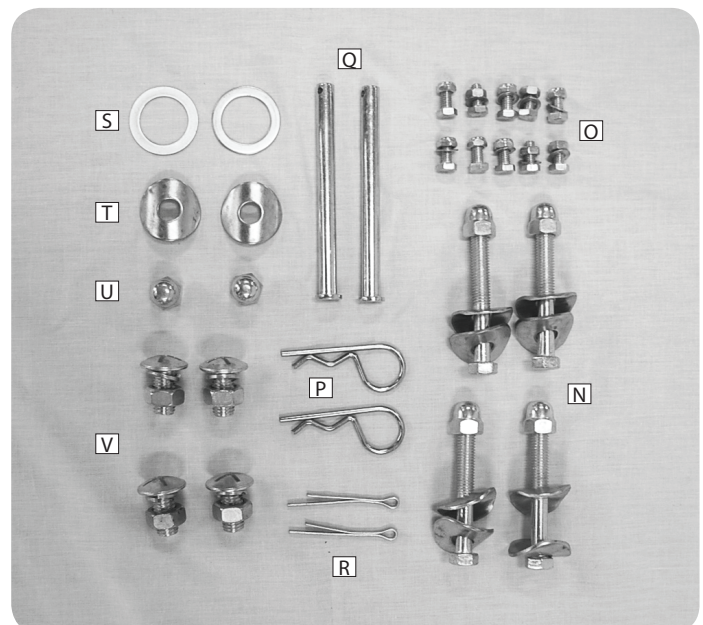
| | | |
|---|-----------|---------|
| L | Leg Shaft | 1 unit |
| M | Leg | 4 units |



Hardware Contents

(All bolts include a washer and lock nut)

| | | |
|---|---|----------|
| N | M10X80 Hex Head Bolts (includes secondary curved washer) | 4 units |
| O | M6x16 Hex Head Bolt | 10 units |
| P | R Clip | 2 units |
| Q | Stand Pin | 2 units |
| R | Split Pin | 2 units |
| S | Axle Washer | 2 units |
| T | Curved Washer | 2 units |
| U | 16mm Capped Nut | 2 units |
| V | M12X30 Coach Bolt (attached to bowl) | 4 units |



ASSEMBLY INSTRUCTIONS

1. FRAME ASSEMBLY

Ensure that you are working on a clean flat surface. A drop sheet may be useful to ensure parts are not damaged during assembly.

Grab the Main Frame Section (A) and Leg Section (B).

Use bolt (N) and insert with curved washer into the bottom hole from the front to connect the Main Frame to the Leg Section. Slide on secondary curved washer and then the nut.

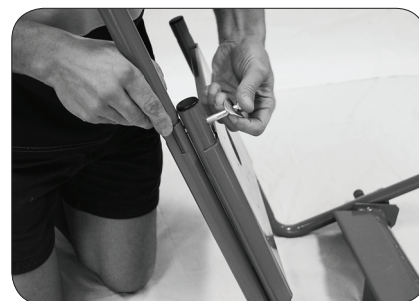
Grab the Handle Section (C) and slide this into the Leg Section (B)

Use bolt (N) and insert with curved washer into the top hole from the front to connect the Main Section, Leg Section and Handle Section. Slide on secondary curved washer and then the nut.

Repeat the above steps for the other side.

Grab Handle Cross Bar (D) and insert this into the holes in both of the Handle Sections (C). Place Curved Washers (T) onto each end and then secure using Capped Nuts (U).

Tighten bolts using a 14mm socket and 16mm spanner.



2. WHEEL ASSEMBLY

Tilt the assembled frame on its back so the axle is raised.

Grab a wheel (E) and slide it onto the axle. Ensure the side of the wheel rim with the raised hub is placed on the inside. Slide axle washer (S) onto axle.

Now insert an R Clip (P) into the hole in the axle to hold the wheel in place.

Place the secondary wheel and axle washer onto the opposite axle and attach with R Clip.



3. MOTOR ATTACHMENT

Grab the Motor (F) and remove the nuts, spring washers and washers from all four fixing points.

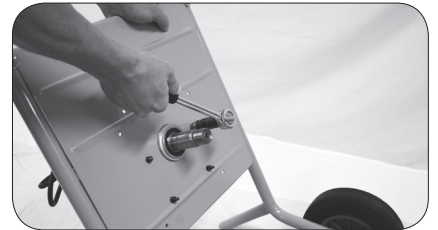
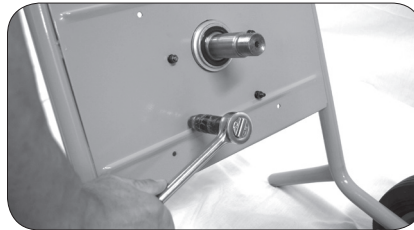
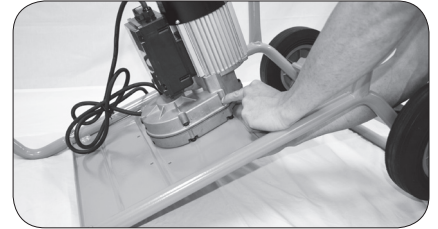
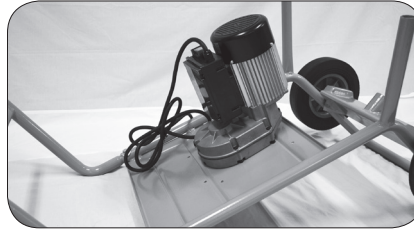
Turn the frame over so that the handles are pointing up.

Now insert the four fixing points in the motor into the matching holes of the frame back plate ensuring the motor shaft sits in the larger cut out hole.

Place a washer, spring washer and bolt onto each of the four fixing points and tighten up by hand.

Tilt the frame up so that it is sitting back on its wheels and legs.

Now tighten up all 4 bolts using a 10mm socket.



4. MOTOR COVER ASSEMBLY

Grab the Left Cover (H) and line the holes in the cover up with the holes in the Frame Back Plate.

Using bolt (O), insert it through the top hole from the back and then slide on the washer and nut. Repeat this process for the bottom hole.

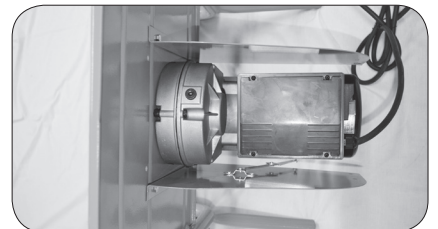
Tighten up by hand.

Grab the Right Cover (I) and again line up the holes with the Frame Back Plate and attach using same bolts (O).

Now grab the Back Cover (J) and starting on one side insert the bolts (O) from the inside so that the washers and nuts are applied from the outside. Repeat this for remaining 3 fixing points.

Now grab the Top Cover (K) and again use the bolts (O) to attach to the Frame Back Plate.

Lastly grab a 10mm spanner and 10mm socket and tighten up all 10 nuts.



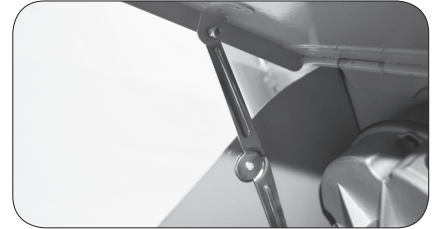
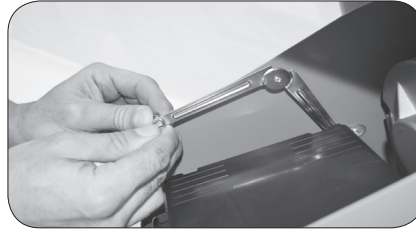
5. MOTOR COVER HINGE

The Left Cover (H) has attached a hinge that is used to hold the Top Cover (K) open.

Unwind the nut that is attached to the bolt on the end of the hinge.

Line the hole of the hinge up with the fixing point in the Top Cover, insert bolt and attach the nut.

Tighten up using a 6mm spanner and 6mm socket.



6. BOWL ATTACHMENT

Grab the Bowl (G) and insert it onto the motor shaft.

Standing at the front of the bowl wind it on clockwise until you can hear the gear box turning.

The first time you use a full mix, the bowl will tighten onto the shaft completely.



7. STAND ASSEMBLY

Grab the Leg Shaft (L) and a Leg (M).

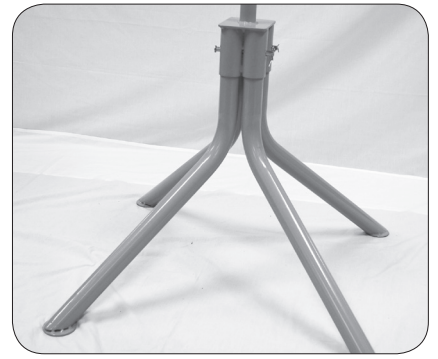
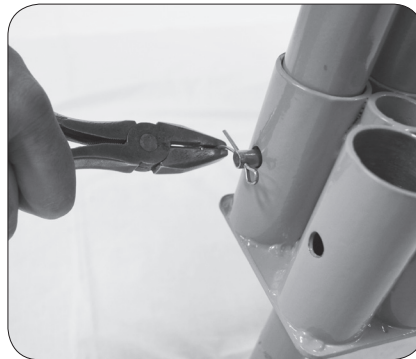
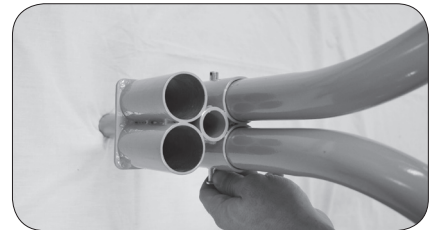
Insert the Leg into the Shaft and line up the holes. Grab a second Leg and insert into adjoining hole.

Marry up the holes in the secondary Leg with the holes of the Shaft and insert a Stand Pin (Q).

Grab a Split Pin (R) and insert it through the hole in the end of the Stand Pin.

With the use of pliers bend the split pin ends to secure.

Repeat the steps above for the remaining two legs to complete the stand.



8. STAND ATTACHMENT

To attach the stand to the cement mixer unit lay the stand on its side and lay the cement mixer with the bowl facing down. Insert the pole on the stand into the shaft of the main unit.

Stand at the top end of the mixer, grab both handles and push the unit up into a standing position.

The cement mixer can be used with or without the stand depending on your requirements.



YOUR CEMENT MIXER IS NOW COMPLETE.

MAINTENANCE

- Clean the cement mixer after every use.
- Remove dust and dirt frequently. Cleaning is best done with a rag or a soft brush. Wear safety glasses whilst brushing away dust and dirt.

OPERATION

Turning the Cement Mixer On and Off

NOTE: The On/Off switch for the cement mixer is an On/Off Push Button switch located at the back of the mixer under the top motor cover.

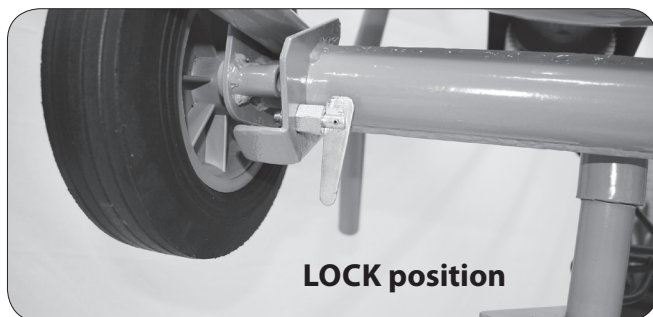
1. To turn on the Cement Mixer, open the motor cover and press the portion of the switch marked "I".
2. To turn off the Cement Mixer, press the portion of the switch marked "O".
3. If the On/Off switch at any time fails to operate correctly as above, turn off and disconnect the power supply and have the mixer checked by an authorised service centre.

Loading the Cement Mixer

WARNING: 10 amp heavy duty safety extension cord must be used.

IMPORTANT: Always switch on the motor before loading the mixer.

1. Ensure the Cement Bowl is in the upwards position, tipping lever is in the LOCK position, and the mixer is on a stable and relatively level ground surface.



2. With your hands, and bystanders well away from all moving parts, press the 'ON' button to start the cement mixer.
3. Load the bowl with the suggested mixture as stated on the bag of cement for the job being performed.
4. Ensure when loading the bowl the shovel or method of loading DOES NOT enter the mouth of the turning bowl.
5. Do not ever place your hand inside the rotating bowl or never use a poker to free clogged mixture inside a rotating bowl. Always turn off the mixer to clear any unmixed or clogged mixture in the bowl.
6. Do not overload the mixer.

Emptying the Cement Mixer

1. The cement mixer must be left running while emptying.
2. Move the Tipping Lever to the UN-LOCK position as pictured.
3. Now move to the back of the cement mixer and grab both of the handles.
4. Push the handles up to tilt the bowl forward to the empty position. Never try and tip the mixer using one handle.
5. When the bowl is in the downward position and empty simply hose the remaining cement out with a hose to clean.
6. Ensure to turn off the mixer when not attended. Do not leave the mixer running when unattended.



CLEANING

- After every mix it is advisable to clear any build-up of cement from the mixing paddles inside the bowl. If left to dry the cement can be extremely difficult to remove without damage to the bowl.
- After the last mix it is advisable to wash and clean all cement build up from both inside and outside the bowl before the cement fully sets. Avoid hitting the bowl with any objects and pay particular attention to build up of cement around the lip of the bowl.
- After cleaning the bowl the cement mixer should be stored on the stand in the downwards position to ensure all water is drained from the bowl.

GENERAL INSPECTION

- Regularly check that all the bolts and nuts are tight. They may vibrate loose over time.
- Inspect the power cord and plug for any signs of damage and have any repairs performed before use by an authorised service centre.
- Ensure to inspect any extension cables for damage before use with the appliance.

REPAIRS

Only an authorised service centre should replace the power cord or effect other repairs.

POWER CORD

If the power cord of this cement mixer is damaged it must be replaced by an authorised service centre or similarly qualified person to avoid a hazard.

2 YEAR GUARANTEE

Cyclone Tools guarantees that this product will be free from defects in workmanship and materials for the period of 2 years from the date of purchase. If a defect in material or workmanship becomes evident during that period Cyclone Tools will, at its option, either:

- replace the product; or
- refund to the customer the purchase price paid by the customer for the product.

In the event of such a defect, the product should be returned to the place of purchase, together with proof of purchase and prior to the date that is 3 months from the end of the guarantee period, for replacement or refund. Any handling and transportation (and other expenses incurred in claiming under this guarantee) are not covered by this guarantee and will not be borne by Cyclone Tools.

The obligation of Cyclone Tools under this guarantee is limited to the circumstances set out above and is subject to:

- the product not having been altered, tampered with or otherwise dealt with by any person in a manner other than as intended in respect of the relevant product; and
- the product not having been used or applied in a manner that is contrary to customary usage or application for the relevant product or contrary to any stated instructions or specification of Cyclone Tools.

In addition to other rights and remedies that may be available under law, our goods come with guarantees that cannot be excluded under Australian Consumer Law (for consumers in Australia) and the Consumer Guarantees Act (for consumers in NZ). If you are a consumer in Australia, you are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. If you are a consumer in New Zealand, we will comply with our obligations to you under the Consumer Guarantees Act.

CONTACT DETAILS

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PLEASE DISPOSE OF
THIS MANUAL
RESPONSIBLY

