

**MOST IMPORTANT - RISK ASSESS!!!**

Before you commence any work at your chosen work area, you should undertake some preliminary **hazard identification** and **risk control** precautions. Ideally more than one person should do this. This is undertaken by:

1. Physically inspecting the work site
2. Reviewing the best way/job steps required to complete the task
3. Reviewing the Safe Work Information supplied with the equipment
4. Reviewing other reference documentation and expert advice

The hazard identification and control process steps are defined as:

1. Identify the Hazards (eg. 240V power drill use around wet areas)
2. Assess the Risk (multi earth paths - possible electrocution)
3. Select the Control Measure (e.g. dry the area; use an RCD; use a cordless drill etc)
4. Re-assess the Risk (risk of electrocution now negligible). This is undertaken to ensure that the risk control measures adopted have not introduced any new risks to the work area.

**HELP**

If the unit does not operate correctly or you are unhappy with its performance, return it to the nearest Kennards Hire Centre for exchange or phone for assistance. **Do not attempt repairs yourself.**

Refer to your hire contract for details of our **AFTER HOURS EMERGENCY NUMBER.**

**PERSONAL PROTECTION EQUIPMENT (PPE)**

**PLEASE NOTE:** Wash off units after use. Concrete is easily removed when wet. Once it is set, a significant amount of effort is required to remove it.

**SAFETY DO'S****General Safety Do's**

DO take your time to **Read this User Guide** and other Safety material completely and in its entirety **BEFORE** operating the Concrete Mixer unit.

**BEFORE STARTING**

1. Make sure machine is on level ground.
2. If level ground is not available ensure that the wheels are appropriately chocked and restrained to prevent unplanned movement.
3. Check power lead is safe and appropriately connected on electric models.
4. Petrol models; check fuel and oil levels.
5. Check mixer drum is empty.

**TO START****ELECTRIC MODEL**

1. Ensure that no person is in the vicinity of the mixing unit.
2. Ensure that the unit and electric leads are not on wet or damp surfaces.
3. Turn off/on switch to "on" position.

**PETROL MODEL**

1. Turn fuel tap on.
2. Turn choke on.
3. Ensure that no person is in the vicinity of the mixing unit.
4. Take up rope play in recoil unit, and then pull swiftly to start.
5. When running, turn choke off.

**TO STOP**

1. Depress stop button.
2. Turn fuel tap off.

**MAINTENANCE ON SITE****DAILY MAINTENANCE**

- Check engine oil on petrol models.

DO seek medical advice from your doctor if you have any medical condition that may be affected by the operation and manual handling of the Concrete Mixer unit and/or equipment.

DO ensure that the equipment is suitable for your needs and working environment.

DO ensure the supplier/hirer shows you how to use the equipment and that you fully understand and are familiar with the equipment and its' operations including emergency shut down/response.

DO ensure that the equipment is assembled and used according to the manufacturers and hirer's instructions.

DO check controls and any safety devices for proper response.

DO wear appropriate PPE as illustrated.

DO ensure that the PPE you use has an Australian Standards compliance label.

DO always operate in a clear hazard free work area.

DO keep all children and animals away from the concrete mixing unit at ALL times.

DO ensure that you have clear access and egress to the work area whilst on the job.

DO ensure the work environment is well lit with all aspects of the job easily seen and discernable.

DO make sure machines are operating on level.

DO maintain proper footing and balance at all times and avoid standing on damp, wet or slippery surfaces.

DO ensure that, for mixers that are towable behind a motor vehicle, the laws in your area for towing are followed and that the towing vehicle has both left and right external rear vision mirrors in good condition.

DO check tyre pressure on mixers. Tyres may appear to be sufficiently inflated while empty, but when bowl is full under-inflated tyres make emptying into a barrow difficult and dangerous.

DO avoid twisting the torso when shovelling material into the bowl (move your feet).

DO look after your back and shoulders by not trying to pick up too much material when shovelling material into the bowl.

DO take care to immediately wash off concrete that comes into contact with skin.

**Electrical Safety Do's**

DO always use earth leakage protection such as a Residual Current Device (RCD).

DO make sure extension leads to electric units are placed clear of water or other hazardous materials. Keep cord from heat, oil and sharp edges.

DO ensure that as a minimum, any 240 volt electrical extension cord setup used comprises of three-pin moulded plugs and one heavy duty type cable not more

than 15 metres in length and that all the connections are free from moisture.

DO ensure that Voltage and Ampere ratings and equipment are compatible - that is, 10 amp plugs for 10 amp outlets etc.

DO ensure that the electric mixer unit is turned "off" at the power supply outlet before disconnecting or connecting cables.

DO ensure that electric extension cables are located where they are not likely to be damaged and are protected against damage and are not laid across passageways or accessways.

**Petrol Safety Do's**

DO always operate petrol units in well-ventilated areas. A build up of fumes can KILL...

DO NOT let children near hot surfaces such as exhaust pipes.

**SAFETY DON'TS****General Safety Don'ts**

DO NOT operate equipment without guards correctly fitted.  
DO NOT operate petrol or electric units if tired or suffering any medical condition, or if under the influence of alcohol or drugs, which may cause lethargy or danger to you or others.

DO NOT wear loose clothing, gloves, neckties, rings, bracelets or other jewellery which may get caught in the moving parts; tie back long hair or wear appropriate headwear to prevent hair becoming entangled in rotating parts.

DO NOT ever place tools or hands inside the rotating bowl.

DO NOT ever leave mixing machine running whilst unattended.

DO NOT ever work alone.

**Electrical Safety Don'ts**

DO NOT ever use the unit if the cord and/or extension cord insulation is cut, cracked, worn or damaged.

DO NOT ever lock switches in "on" position with tape, wire or by any other means.

DO NOT ever carry unit from the cord or yank the cord to disconnect from receptacle.

DO NOT ever operate electric units in rain or drizzle.

**Petrol Safety Don'ts**

DO NOT smoke while in the vicinity of petrol, petrol containers or petrol-powered equipment

DO NOT smoke while using or refueling the unit.

DO NOT refuel the unit while it is running.

DO NOT start or use the unit within 3 metres of any fuel containers.

DO NOT ever operate petrol units in areas that contain flammable liquids or gas, or confined non-ventilated spaces.

- Check the Residual Current Device (earth leakage unit).
- Check electric extension leads for damage.
- Check tyre pressure.
- Clean out bowl at the end of the task - do not permit concrete to set in the bowl.

**WEEKLY MAINTENANCE**

- Clean air filter on petrol models.
- Grease drum drive crown wheel.

**TROUBLESHOOTING****MOTOR NOT RUNNING - Electric Model**

- Check that power is "on".
- Check residual current device has not tripped.
- Check electric cable connections.

**MOTOR NOT RUNNING - Petrol Model**

- Check fuel level.
- Check fuel tap is turned on.
- Check air filter is dry.
- Check spark plug lead has contact.

**MIXER BOWL NOT TURNING**

- Check drive belt is free and not damaged.
- Check drum drive crown wheel is greased.

**Remember - Do not attempt repairs yourself - contact your local Kennards Hire Representative for advice.**

**HELPFUL HINTS**

If using wooden formwork, a light oiling with diesoline will prevent concrete sticking to it. Clay, vegetation, dusty or flaky material is unsuitable.

Avoid using excess water, this weakens concrete and promotes shrinkage and cracking.

A suitable measure for small jobs is an ordinary household bucket.

A properly operated 2 cu.ft mixer is capable of producing up to 2 cubic yards of mixed concrete per hour, 3 cu.ft mixer 3 cubic yards per hour.

For jobs such as driveways and floor slabs, the suitable mix is 1 part cement, 2 1/2 parts sand, 4 parts aggregate and 1 part water. First place about one-quarter of the water in the revolving drum, then add to the aggregate followed by the sand, followed by the cement and finally the remainder of the water. Continue mixing for at least two minutes after that or until the mixture is uniform in colour and texture.

**HANDLING**

NB: Barrow Mixers - Station wagon. Transport mixers in upright position. In some regions mixers can be towed.

To avoid manual handling injuries, adopt safe posture for lifting and manoeuvring of the unit, if necessary obtain help to move unit.

**SPECIFICATIONS**

Weight - Petrol 120/150kg

Weight - Electric 56/99kg

Power - Petrol 5hp (3.7 kilowatt) 4/stroke motor

Power - Electric 240volt 1/2hp motor (0.37 kilowatt)

Capacity - 2cu.ft (0.06cu.m)

Capacity - 3cu.ft (0.085cu.m)

Fuel type - Unleaded

Fuel tank capacity - 4 Litre

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