Bäumr-AG®

CPS-160 Concrete Mixer

User Manual

[Revision 2.0]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description, and packaging.

The product is NOT supplied with engine oil, although traces of oil from the manufacturing process may be present. It is essential to add adequate engine oil of the correct type to the engine before use. **Failure to add engine oil will void the product warranty.**

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.

You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.

You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases, or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well it.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol, or medication.
- This equipment is not intended for use by persons with reduced physical, sensory, or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well-ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start, or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors, and vents.

General Equipment Use and Care

- Keep packaging away from children and pets, potential risk of suffocation or choking.
- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage, or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases, or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids, or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

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General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Always use a Residual Current Device (RCD) (GFCI) / Earth Leakage Circuit Breaker / Safety Switch when operating this item (electrical items only).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories, or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Child Choking Hazard!

- **WARNING: CHOKING HAZARD - CHILDREN UNDER 8 YRS. CAN CHOKE OR SUFFOCATE ON SMALL PARTS. ADULT SUPERVISION REQUIRED.**
- Carefully inspect anything a baby or child could gain access to, including this product & packaging.
- Dangers include anything of a size that could become stuck or lodged in a baby or child's airway.
- Dangers include things like raw, hard fruit and vegetable pieces, large pieces of meat, bones or sausage skins, popcorn, nuts, hard lollies and corn chips, small magnets and batteries, coins, beads, marbles and small uninflated balloons, broken toys and smaller toys, buttons, keys, and coins. But there are also many more.
- Pay particular attention to accessories, nuts, bolts, screws, washers, caps, covers, loose parts, parts that could be removed or break off, pieces of packaging, staples, tape etc.
- In the case of any doubt, secure the item of concern in an appropriate manner, or completely remove the possibility of access by a baby or child.

HAZARDOUS COMPONENTS!

- **BE AWARE THAT THE EQUIPMENT MAY INCLUDE HAZARDOUS COMPONENTS, SUCH AS BLADES, HOT SURFACES AND MOVING PARTS.**
- **MOVING PARTS CAN CAUSE SERIOUS INJURY AND EVEN DEATH IF USED IMPROPERLY OR WITHOUT SUFFICIENT PPE.**
- **DO NOT USE THIS EQUIPMENT ON UNEVEN SURFACES AND ALWAYS MAINTAIN GOOD BALANCE WHEN USING THIS EQUIPMENT. FAILURE TO DO SO MAY CAUSE SRIOUS INJURY.**
- **MAINTAIN A SECURE GRIP OF THE TRIGGER ASSEMBLY AT ALL TIMES.**

Safety Guidelines

- **WARNING! READ ALL SAFETY WARNINGS AND INSTRUCTIONS. FAILURE TO FOLLOW INSTRUCTIONS AND WARNINGS COULD RESULT IN SERIOUS INJURY, ELECTRIC SHOCK OR FIRE.**

Work Area Safety

- Ensure the work area is clean and well lit. Poor visibility and clutter increase the risk of accidents when using tools.
- Keep bystanders, pets and children clear when operating this power tool or machine. Distractions may lead to injury.
- Do not operate the power tool or machine in the presence of dust, liquids, flammable gases or any explosive atmosphere. Power tools can create sparks that may lead to ignition and fire hazards.

Personal Safety

- Always wear personal protective equipment (PPE). Eye protection, hearing protection, dust masks and other suitable PPE reduce the risk of personal injury and long-term health effects.
- Dress appropriately. Do not wear loose clothing or jewellery that could become caught in moving parts. Keep hair, clothing and accessories clear of moving components.
- Always remain alert. Do not operate power tools or machinery under the influence of alcohol, drugs or medication, including prescription medication. Lack of focus may result in injury or accidents.
- Maintain proper footing and balance at all times. Overreaching may cause slipping or falling, increasing the risk of injury.
- Ensure the power switch is in the OFF position before connecting to any battery or power source. This helps prevent accidental starting.
- Use all provided dust extraction or collection attachments, if fitted. When used with appropriate PPE, these help reduce exposure to dust and keep the work area clear of hazards.
- Ensure loose items such as wrenches or adjusting keys are removed before starting the power tool or machine.

Fuel and Engine Safety

- Engine exhaust contains carbon monoxide, a colourless, odourless poisonous gas. Breathing carbon monoxide can cause nausea, dizziness, fainting or death. If you feel dizzy or unwell, move to fresh air immediately.
- **WARNING! OPERATE THIS MACHINE OUTDOORS ONLY, IN A WELL-VENTILATED AREA, AND DIRECT EXHAUST FUMES AWAY FROM YOURSELF AND OTHERS.**
- • DO NOT operate the machine inside any building, including garages, basements, crawl spaces, sheds or enclosed areas, including storage compartments of recreational vehicles.
- • DO NOT allow exhaust fumes to enter confined areas through windows, doors, vents or other openings.
- • NEVER use inside a home or garage, even if doors and windows are open. Operate outdoors only and well clear of windows, doors and vents.
- **WARNING! USING AN ENGINE INDOORS CAN KILL YOU WITHIN MINUTES. ENGINE EXHAUST CONTAINS CARBON MONOXIDE, A POISON YOU CANNOT SEE OR SMELL.**

Petrol and Vapours

- **DANGER! PETROL AND PETROL VAPOURS ARE HIGHLY FLAMMABLE AND EXPLOSIVE. FIRE OR EXPLOSION CAN CAUSE SEVERE BURNS OR DEATH.**
- Petrol is highly flammable and explosive.
- Petrol can cause fire or explosion if ignited.
- Petrol is a liquid fuel, but its vapours can ignite.
- Petrol is a skin irritant. Clean immediately if spilled on skin or clothing.
- Petrol has a distinctive odour, which can help detect leaks.
- In the event of a petrol fire, do not attempt to extinguish flames unless the fuel supply can be safely shut off. Failure to do so may result in an explosion hazard.
- Do not fill the fuel tank to full capacity. Allow space for fuel expansion due to temperature changes.
- Do not use stale, contaminated or mixed fuel. Prevent dirt or water from entering the fuel tank.

When Adding or Removing Petrol

- DO NOT light or smoke cigarettes.
- Turn the engine off and allow it to cool for at least two minutes before removing the petrol cap. Loosen the cap slowly to relieve pressure in the tank.
- Only fill or drain petrol outdoors in a well-ventilated area.
- DO NOT pump petrol directly into the engine at a service station. Use an approved container to transfer fuel.
- DO NOT overfill the fuel tank.
- Keep petrol away from sparks, open flames, pilot lights, heat and other sources of ignition.
- DO NOT refill the fuel tank while the engine is running or still hot.
- Clean up any fuel or oil spills immediately. Dispose of fluids and cleaning materials in accordance with local regulations.

When Starting the Engine

- DO NOT attempt to start a damaged engine.
- Ensure the petrol cap, air filter, spark plug, fuel lines and exhaust system are correctly fitted and in good condition.
- Allow any spilled petrol to fully evaporate before starting the engine.
- Ensure the machine is positioned on firm, level ground.
- A spark from a removed spark plug wire may result in fire or electric shock.

Power Tool and Machinery Use and Care

- Use the correct tool for the job. Forcing a tool to perform a task it was not designed for increases the risk of injury.
- Disconnect tools and machinery from the power source, or remove batteries, before carrying out maintenance, adjustments or storage. This reduces the risk of accidental starting.
- Regularly inspect the tool or machine for damage or faults that may affect operation. Do not use if damaged. Have repairs carried out using approved parts from the manufacturer.
- Use only parts and accessories specified by the manufacturer. Failure to do so may result in injury or equipment damage.
- Store tools and machinery out of reach of children and untrained persons when not in use.

Service

- Have your tools and machinery serviced using replacement parts specified by the manufacturer. This helps ensure safe operation.
- **WARNING! THE WARNINGS AND PRECAUTIONS IN THIS MANUAL CANNOT COVER ALL POSSIBLE CONDITIONS AND SITUATIONS. THE OPERATOR MUST EXERCISE COMMON SENSE AND CAUTION AT ALL TIMES.**

Always Use Common Sense

- Not all situations can be anticipated. Always exercise care and use sound judgement. If you feel unsafe, stop and seek advice from a qualified person.
- Do not allow familiarity from frequent use to result in complacency. A moment of carelessness can cause serious injury.

Concrete Mixer Specific Safety

- This mixer is intended for mixing concrete, mortar and plaster only. Do not use for flammable or explosive materials. Do not operate in areas where fumes from paint, solvents or flammable liquids are present.
- Inspect the mixer before use. Ensure all guards are in place and functioning correctly. Do not connect to power with the motor cover removed.
- Check all bolts, nuts and fasteners are secure before each use, particularly those securing guards and drive components. Vibration during operation may cause loosening.
- Ensure all tools and loose items are removed from the mixer before operation.
- Replace any damaged, missing or worn parts before use.
- Ensure all warning labels are present and legible. Replace if damaged or missing.
- Maintain stable footing and balance when loading or unloading the mixer.
- Do not stand on the mixer. Serious injury may occur if the mixer tips or moving parts are contacted.
- Keep hands and loose clothing away from all moving parts. Do not place tools or objects, including shovels, into the drum while it is rotating.
- Do not place hands in the clearance between the frame and support arm, or between the drum and support arm during operation.
- • Do not force the mixer. It will operate more efficiently and safely at its designed capacity. Always work within the rated capacity.
- • Do not start the motor if the drum is fully loaded. Do not switch off the mixer while it is full of concrete.
- • Do not use the mixer for purposes other than those intended.
- • Do not leave the mixer unattended until it has come to a complete stop.
- • Operate the mixer only on solid, flat and level ground capable of supporting its weight, to prevent tipping.
- • Extension leads must not exceed 50 metres in length. The cable must have a minimum cross-sectional area of 1.5 mm² for 230 V supply to ensure adequate current to the motor. Improper use of extension leads may cause inefficient operation, overheating and motor damage.
- • Do not open the motor cover before disconnecting the mixer from the power supply. Disconnect the power when not in use, before moving, making adjustments, changing parts, cleaning or servicing the mixer.
- • Clean the mixer immediately after use. Keep it clean to ensure safe and efficient operation.

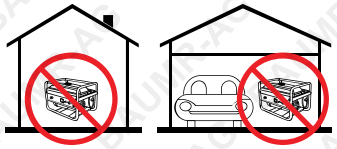
Dress for the Job

- Do not wear loose clothing, gloves, neckties or jewellery (such as rings or watches), as they may become caught in moving parts.
- Wear appropriate PPE, including non-conductive gloves and non-slip footwear.
- Tie back long hair and keep it away from moving parts.
- Wear a face mask or dust mask in dusty conditions.
- Always wear safety goggles and/or a face shield. Note that standard prescription glasses only provide impact-resistant lenses and are not safety glasses.

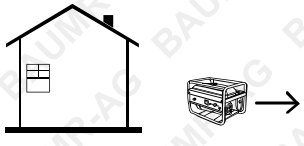
Engine Safety

⚠ DANGER ⚠

Using an engine or wood/charcoal/gas fuelled appliance indoors CAN KILL YOU IN MINUTES. Engine exhaust and wood/charcoal/gas fumes contain carbon monoxide. This is a poison you cannot see or smell.



NEVER use inside a building, home, garage, boat, caravan or tent EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors, and vents.

Avoid other hazards - READ MANUAL BEFORE USE.

GENERAL:

- Do not operate in a hazardous location. Such areas include where there is a risk of explosion of petrol fumes, leaking gas or explosive dusts.
- Do not operate in a confined area where exhaust gases or wood/charcoal/gas fumes could reach dangerous concentrations.

PRODUCTS FEATURING AN ENGINE

- Follow all warnings in the section titled "GENERAL".
- Explosion hazard - never smoke while refuelling.
- Take care not to spill fuel. When refuelling the engine, ensure that the engine has been allowed to cool. Prevent spilling of fuel as this may also ignite with a hot engine.
- Never refuel while engine is running.

GENERATORS

- Follow all warnings in the sections titled "GENERAL" and "PRODUCTS FEATURING AN ENGINE".
- The output of this generator is potentially lethal. The generator should not be connected to a fixed electrical installation except by an appropriately licensed person.
- Not weatherproof – protect your machine. This machine is not weatherproof and should not be exposed to direct sunlight, high ambient temperature, damp conditions, wet conditions or high humidity conditions.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

Flammable Material Hazard
Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.

Read User Manual
Read and fully understand product safety warnings, operation, procedures etc before using the product.

Use Hand Protection
Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.

Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.

Electrocution / Electrical Shock Hazard
High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.

Toxic Fumes / Dust Hazard
Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.

Explosive Material Hazard
Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.

Cutting / Amputation Hazard
The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.

Crush Hazard
The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.

Single Operator Only
The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.

Use Face Protection
Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.

Use Foot Protection
Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.

Use Eye / Ear / Head Protection
Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing, and head hazards.

Running Hazard
Do not run on or near the product as doing so may present a fall hazard.

Diving Hazard
Do not dive into the product as doing so may present a neck / head injury hazard.

Adult Supervision Required
Always supervise children and other users of a product to prevent drowning or injury.

Skin Penetration / Puncture Hazard
The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.

Hot Surface Hazard
Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.

Flying Debris Hazard
Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.

Moving Parts Hazard
Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

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 Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 **Pull Hazard** Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	 **Slope / Fall Injury Hazard** Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	 **"Slam Dunk" Warning** Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
 Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp, or wet conditions. Electrical shock can be fatal.	 **Electrocution / Electrical Shock Hazard - Disconnect** High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	 **Power Line Electrocution Hazard** High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	 **"Kick-Back" Hazard** High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
 Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.	 **Winch Lift Hazard** Do NOT LIFT load vertically. Use machine to PULL only.	 **Cable Hazard** Ensure that load bearing cable is not kinked or knotted.	 **Winch Cable Hazard** Ensure that there is a minimum number of cable coils on winching mechanism.
 Winch Hook Hazard Carry hook to load – do NOT throw or run.	 **Flash / Blinding Hazard** Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	 **Laser Hazard** Laser may be in use – do NOT look directly at laser or allow others to.	 **Choking Hazard** Children under 8 yrs. Can choke or suffocate on small parts. Adult supervision required.

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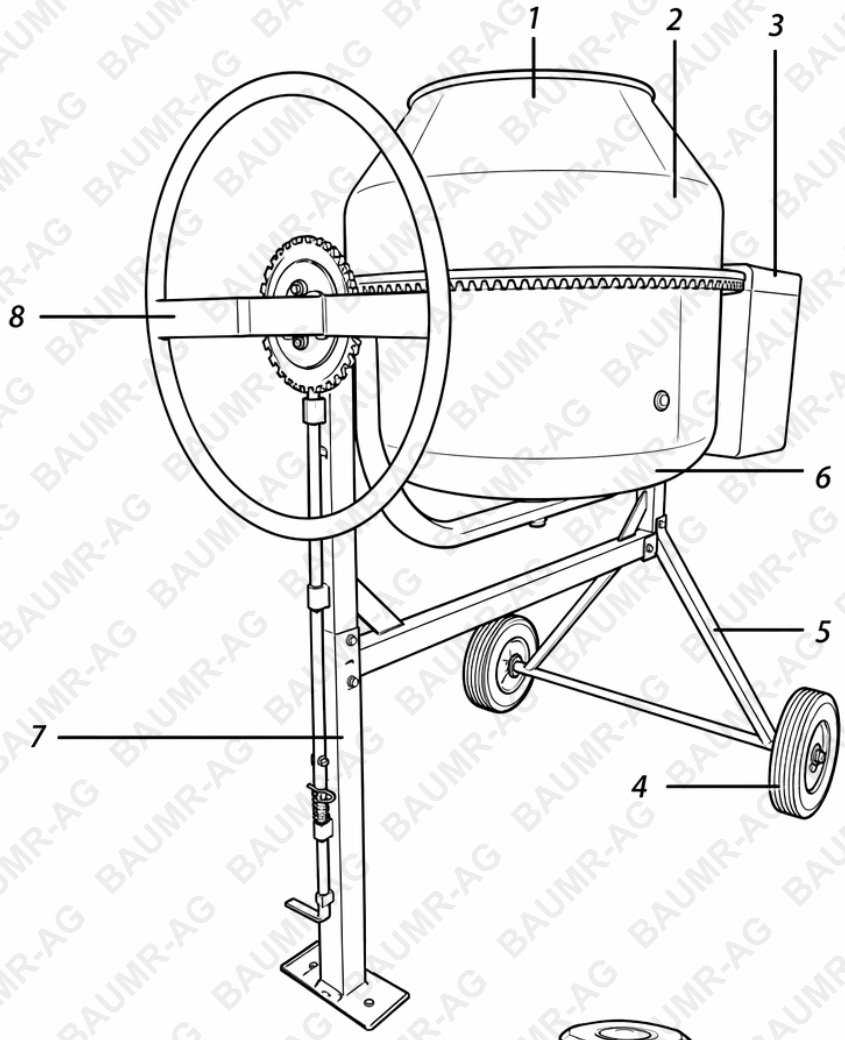
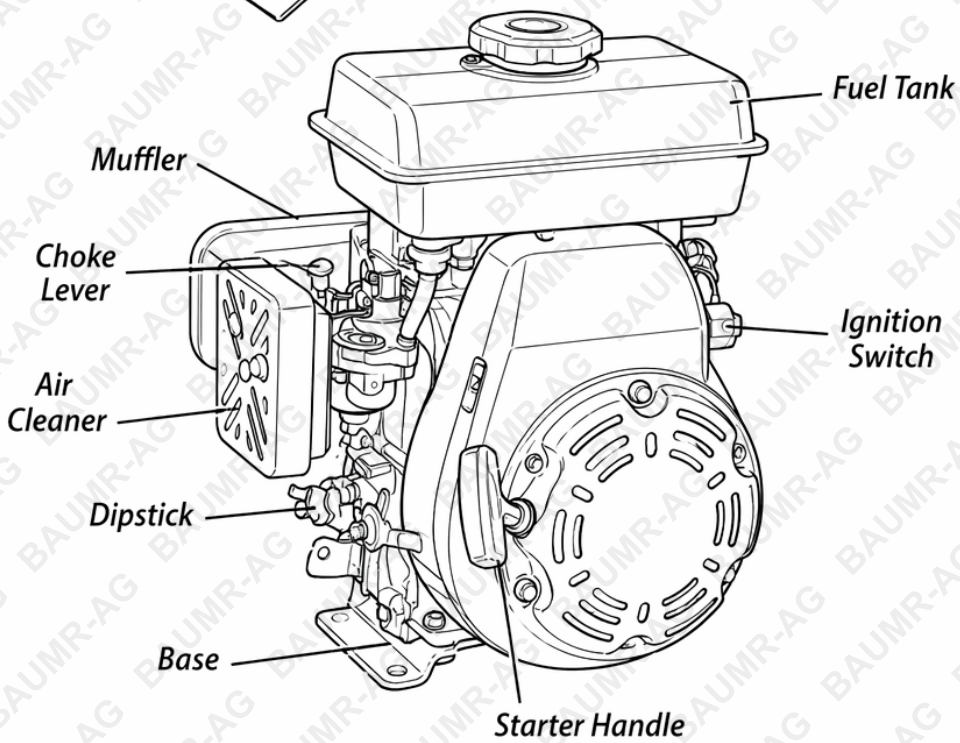
Parts Identification



1 Mixing Blades
2 Upper Drum
3 Engine Case
4 Rubber Wheels
5 Axle Bracket
6 Bottom Drum
7 Stand
8 Tipping Wheel



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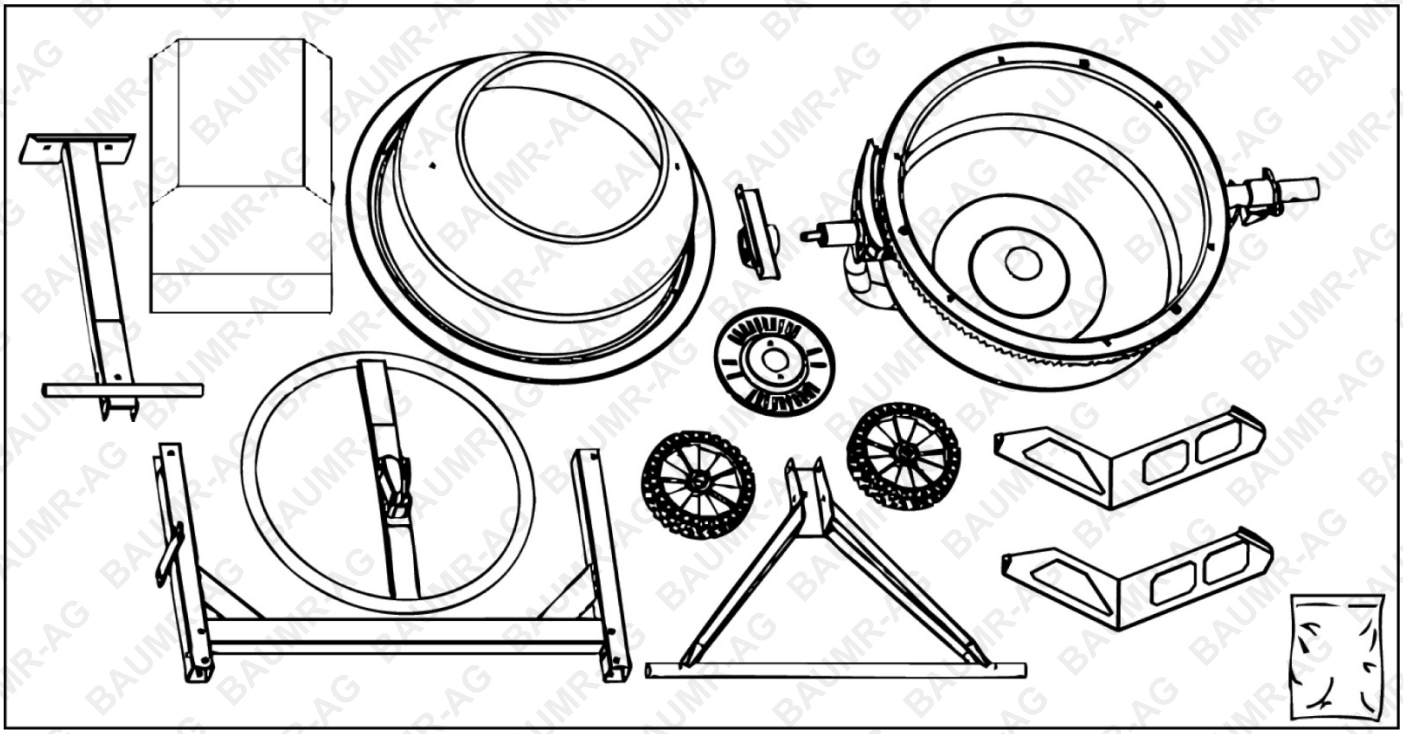
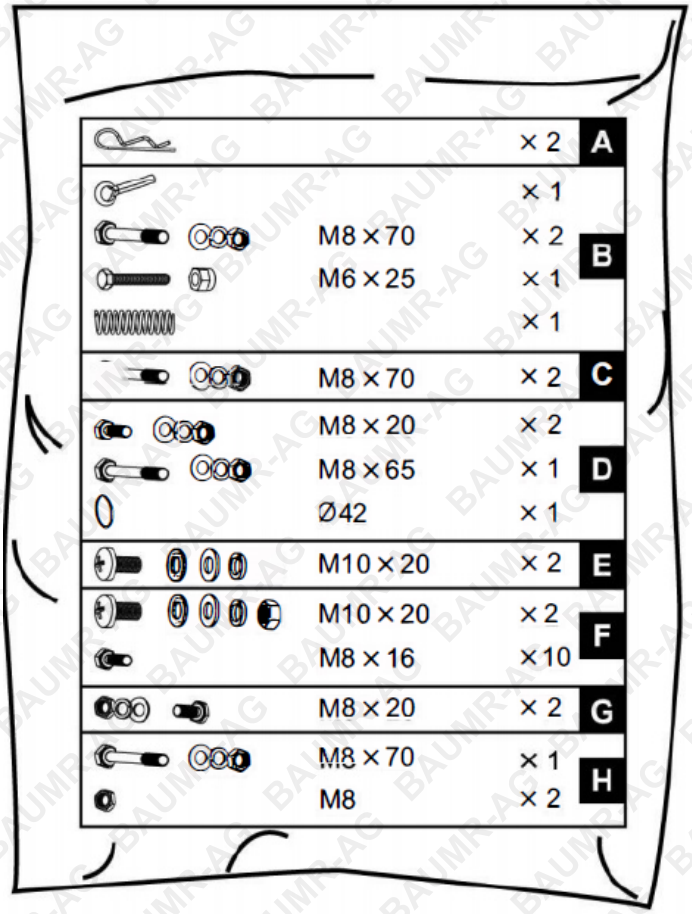
Assembly

Contents



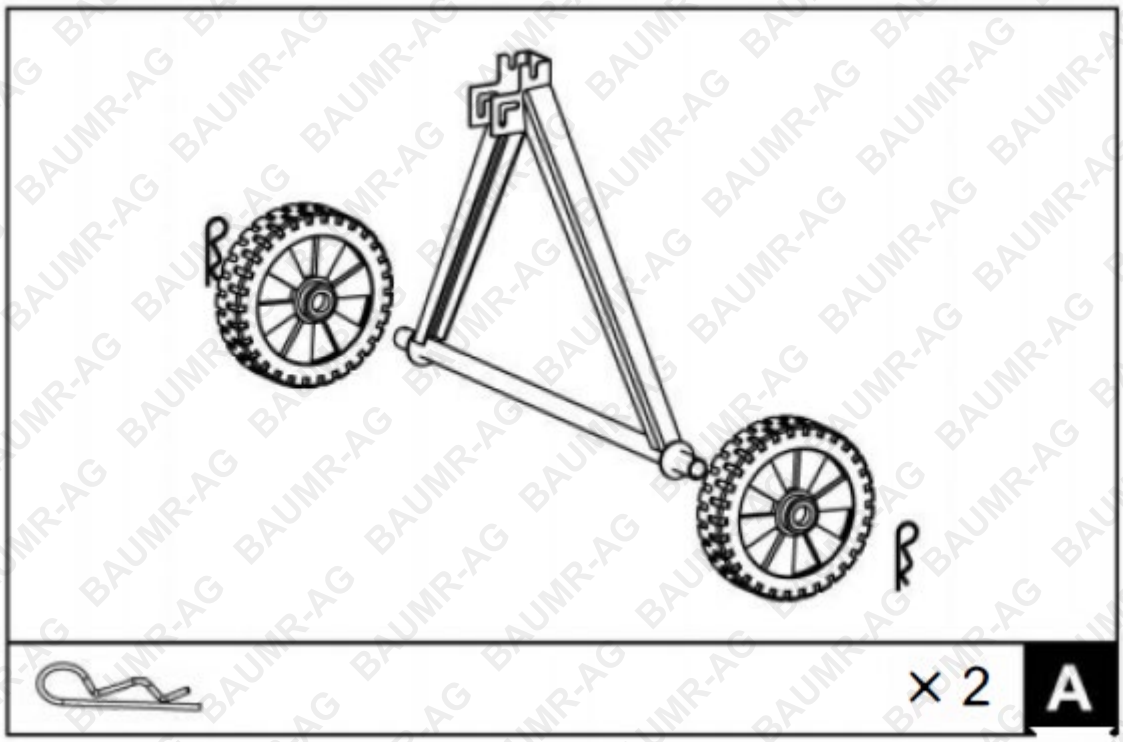


Assembling the Mixer

Two people are recommended for assembly.

The Stand

1. Slide the wheels onto the stub axles. Secure with hairpin retainers.



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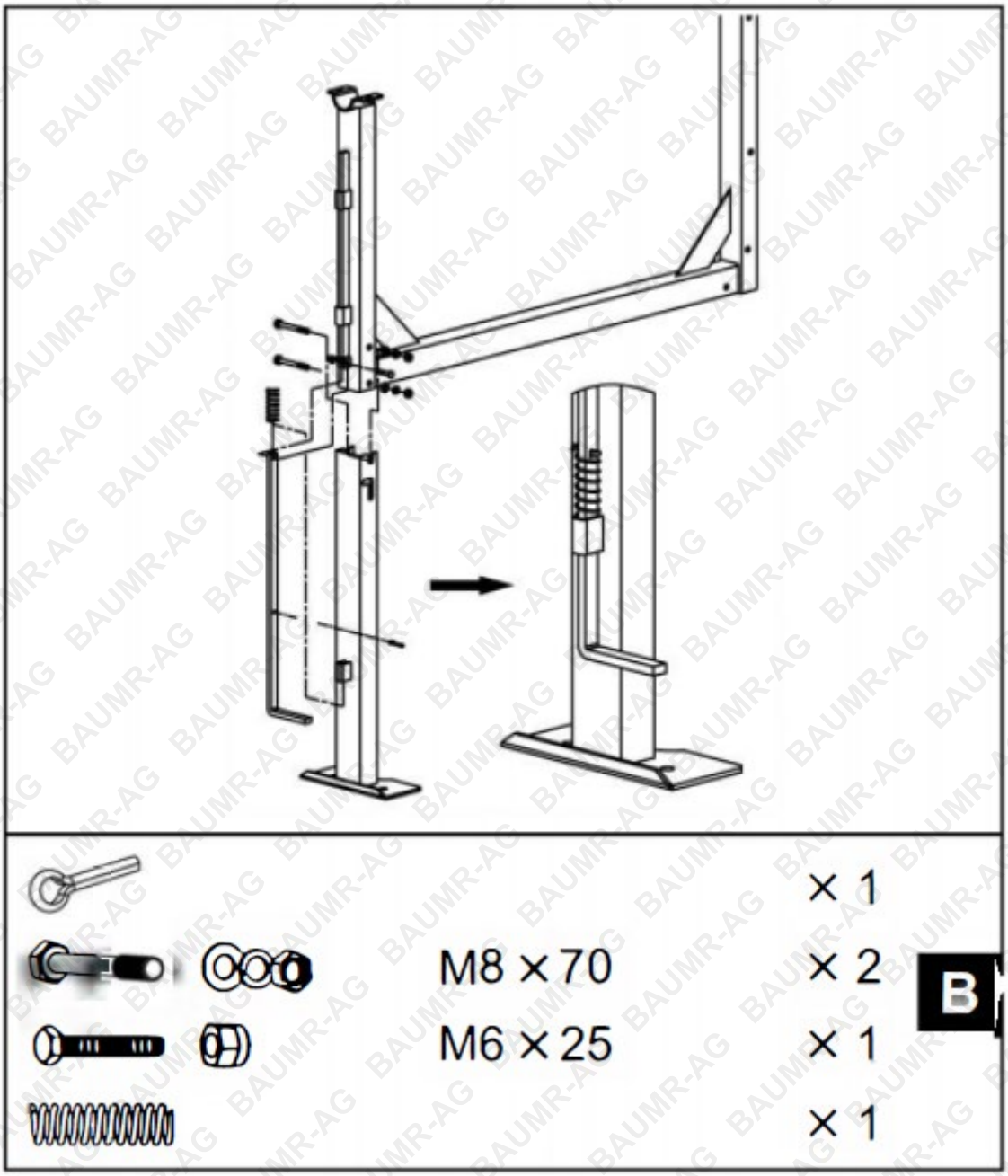
2. With the frame lying on its side, attach the support leg as shown. Insert M8 × 70 hex bolts through the holes from one side, then fit flat washers, spring washers and nuts from the other side. Slide the spring onto the lower plunger rod. Attach the plunger rod using an M6 × 25 hex bolt and nut. Secure the spring by inserting a split pin. Bend the ends of the split pin outward. Tighten all fasteners.



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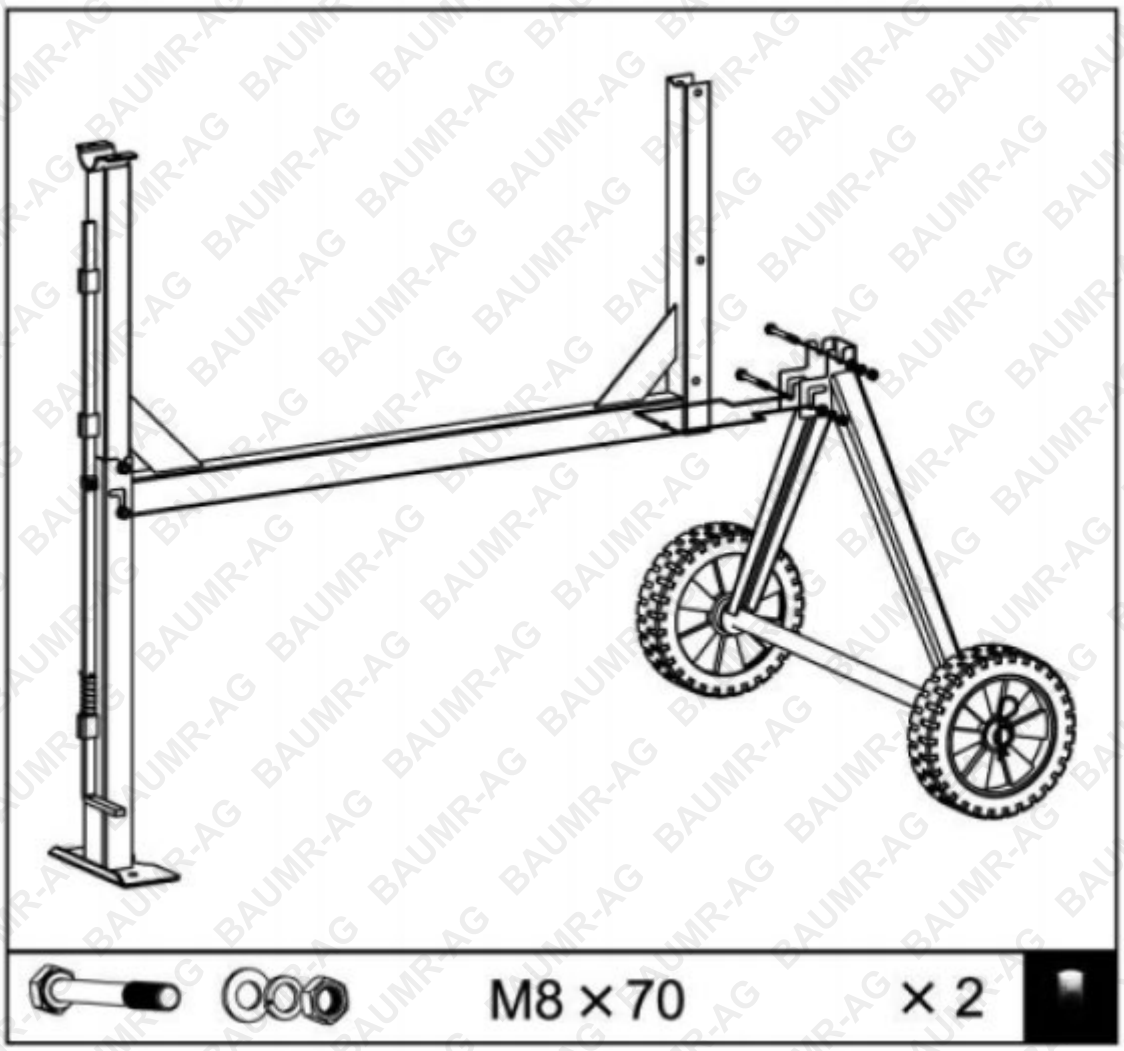
3. Turn the frame upright and attach the axle bracket with wheels in the same manner.



4. Ensure all bolts and nuts are securely tightened.

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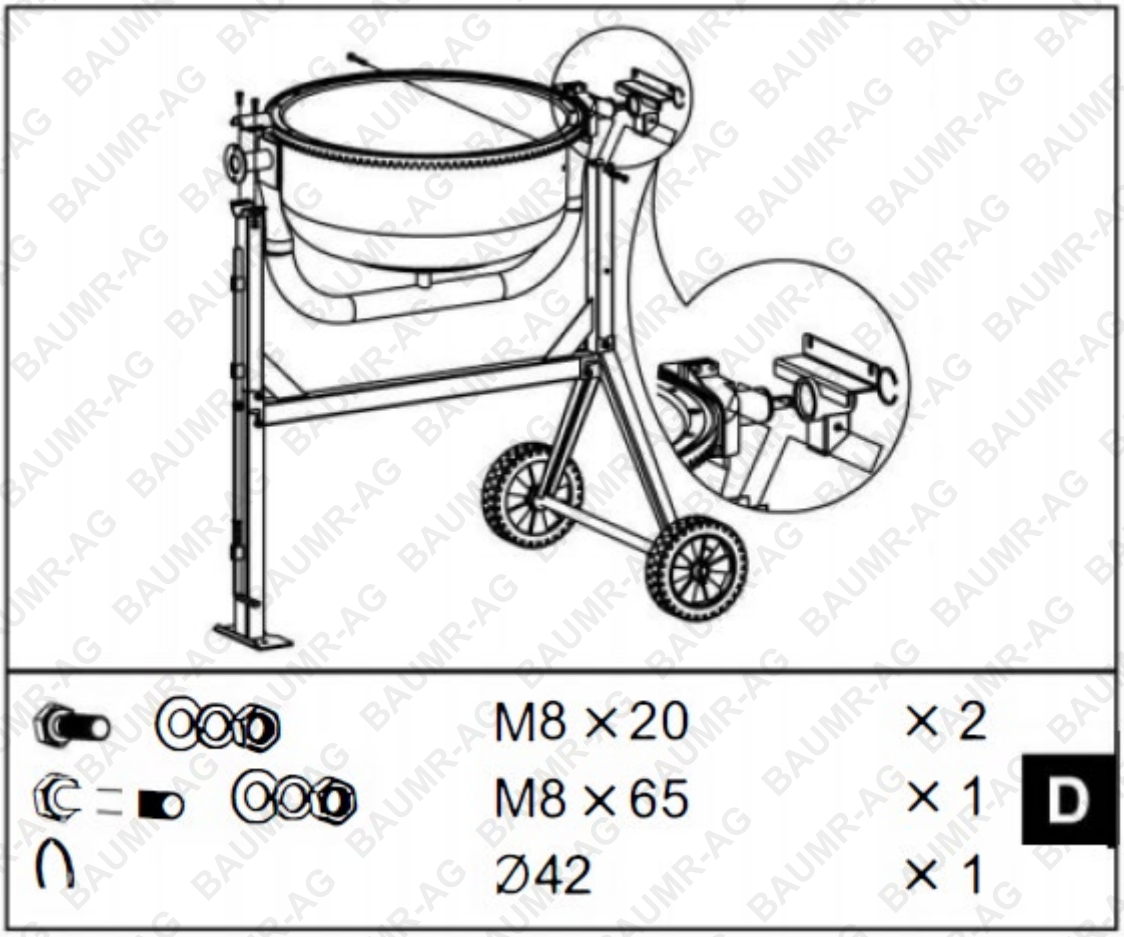
The Bottom Drum

1. Slide the bearing block onto the shaft. Secure it with the Ø42 retaining ring.



2. With assistance, position the bottom drum with the support arm onto the side supports of the stand, as shown. Ensure the bearing block locates into the channel on the side support, and the larger diameter shaft sits on the bottom bracket.
3. Align the holes in the side support with those in the bearing block. Insert an M8 × 65 hex bolt from one side, then fit a flat washer, spring washer and nut from the other side.
4. Position the upper bracket onto the larger diameter shaft, aligning it with the holes in the bottom bracket. Insert two M8 × 20 bolts, then fit flat washers, spring washers and nuts from below.
5. Tighten all fasteners with a suitable spanner.

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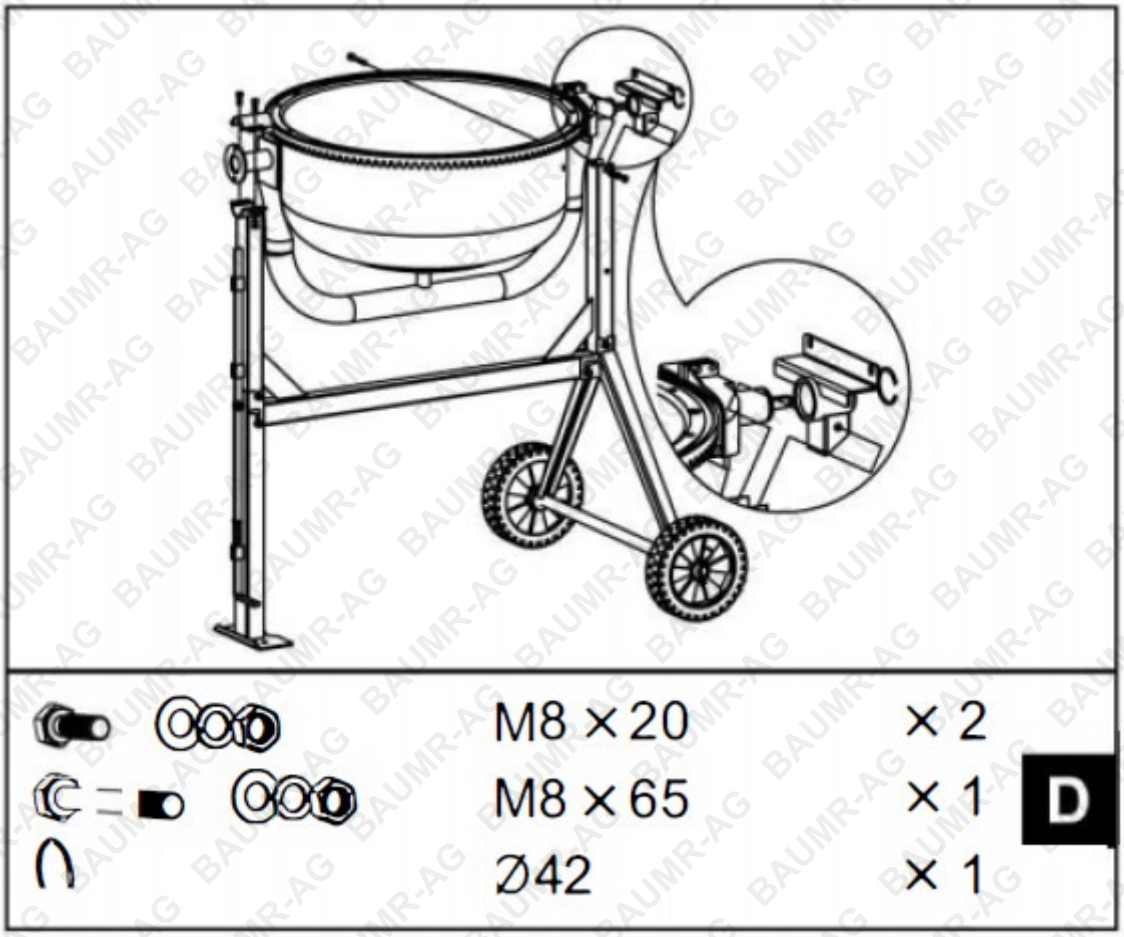
The Mixing Blades

(Continue with installation as shown in the diagram using the specified fasteners.)



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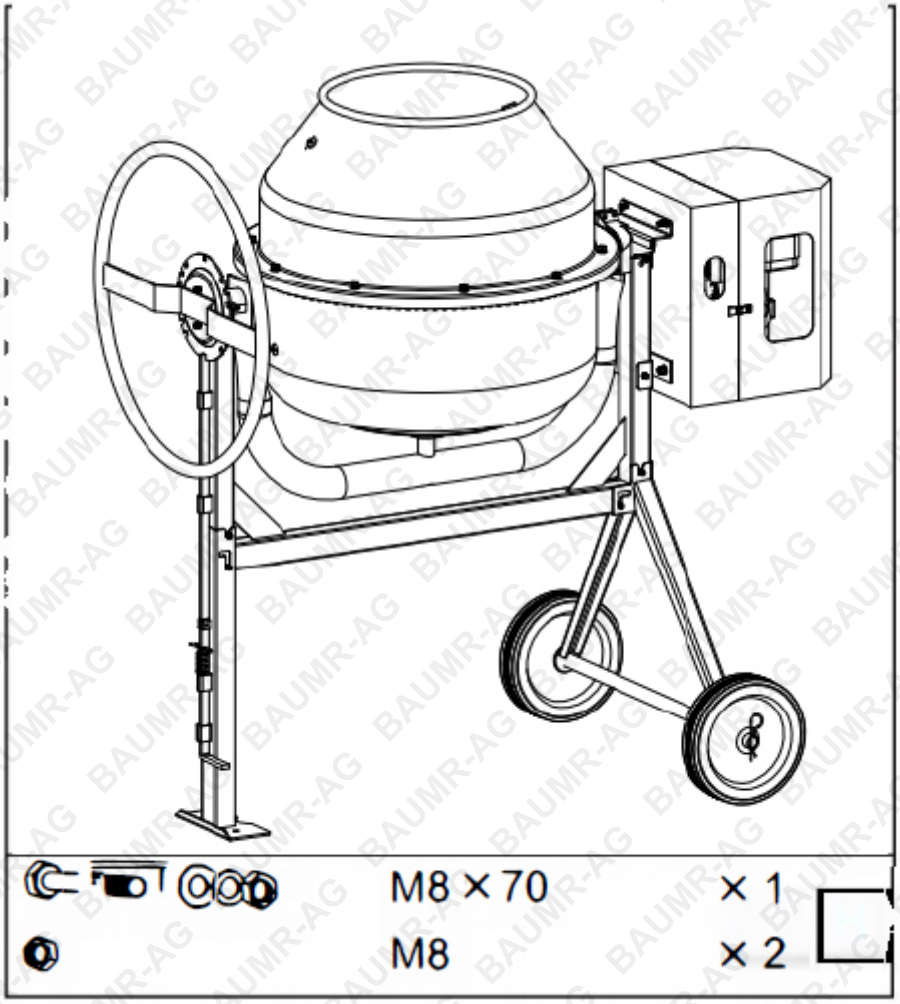
The Transmission Case

1. Align the keyways and slide the transmission case onto the pinion shaft. Fit a nut with flat washer and spring washer onto each stud bolt and tighten.
2. Secure the lower case bracket to the side support frame by inserting an M8 × 70 bolt from one side, then fit a flat washer, spring washer and nut from the other side. Tighten securely.



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Operation

IMPORTANT: The metal engine housing can get very hot. Use gloves before attempting to open the metal housing or allow to cool before attempting to open. Avoid touching the housing during operation.

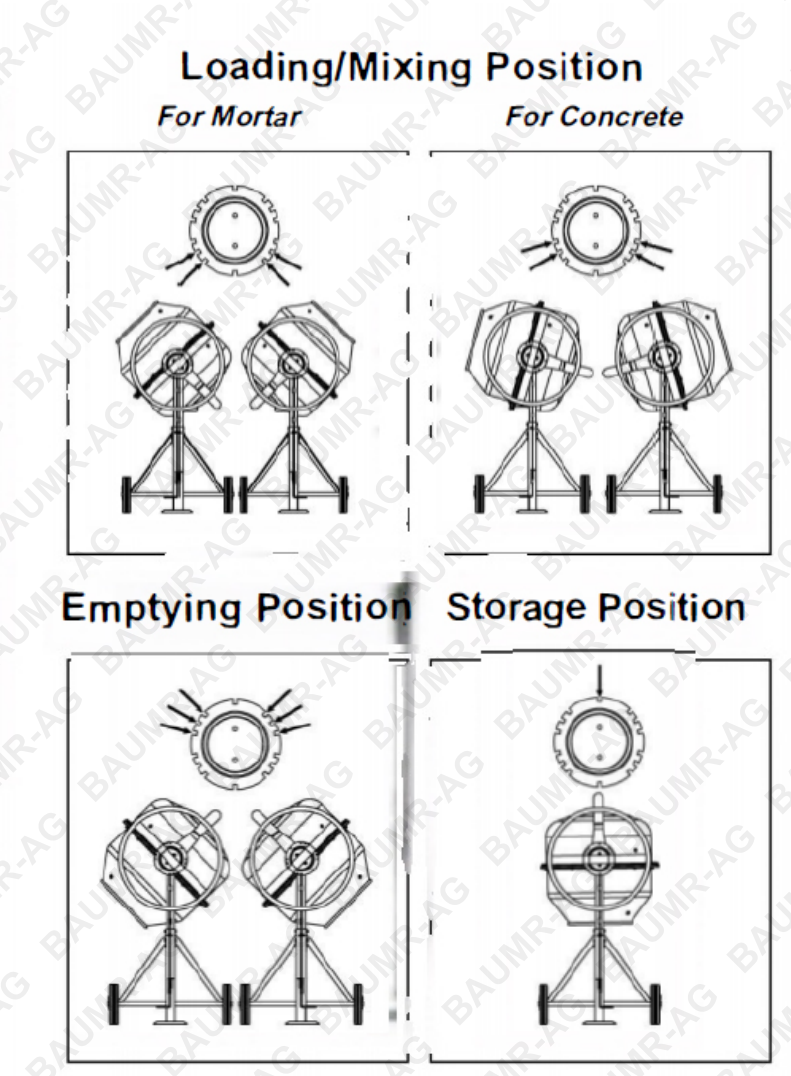
Drum Tilting

The tipping wheel allows controlled positioning of the drum and can be locked in the mixing, discharge and storage positions.

The drum is secured by a self-locating locking plunger that engages with the tipping wheel. To tilt the drum, disengage the locking plunger by pressing the foot pedal. This allows the tipping wheel and drum to rotate together.

To lock the drum in position, align the slot with the plunger, release the foot pedal and rotate the tipping wheel until the locking plunger engages.

Loading / Mixing Positions



Loading

Always start the mixer before loading the drum. Load only while the drum is rotating. Do not throw material into the mixer, as it may stick to the back of the drum. Feed material steadily over the rim.

For best results, proceed as follows:

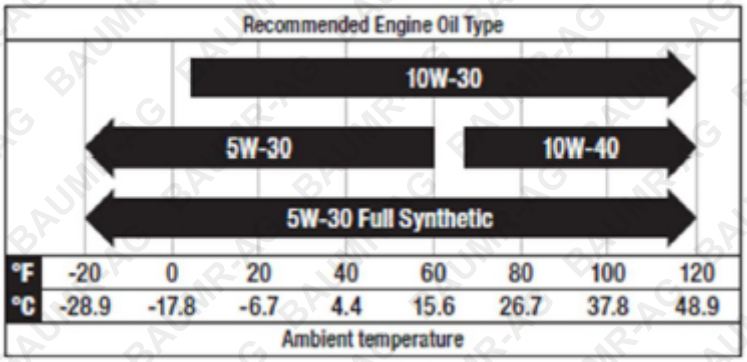
1. Add the required amount of gravel into the drum.

Pre-Operation

Engine Oil

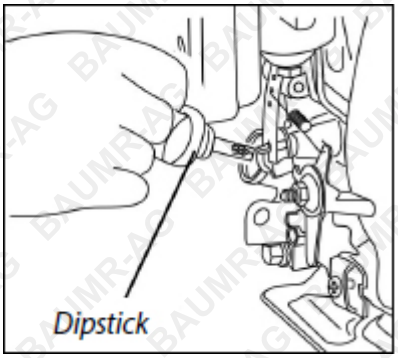
WARNING! Engine oil is critical to the performance and longevity of the engine. Use of oil with additives or oil intended for 2-stroke engines is not suitable, as it may result in insufficient lubrication and reduced engine life.

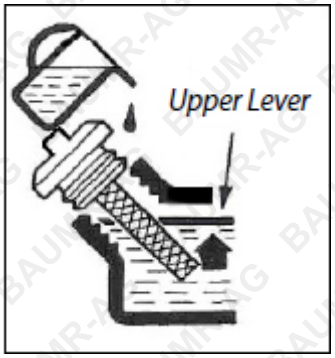
- SAE 10W-30 is recommended for general, all-temperature use.
- Oil viscosity varies depending on climate and operating conditions. Select the appropriate oil based on the recommended types (see figure).



Filling the engine with oil:

1. Ensure the engine is stationary and positioned on a level surface.
2. Remove the dipstick and wipe it clean.
3. Reinsert the dipstick into the filler neck without screwing it in, then remove it to check the oil level.
4. If the oil level is low, add the recommended engine oil to the filler neck.
5. Reinsert and secure the dipstick.





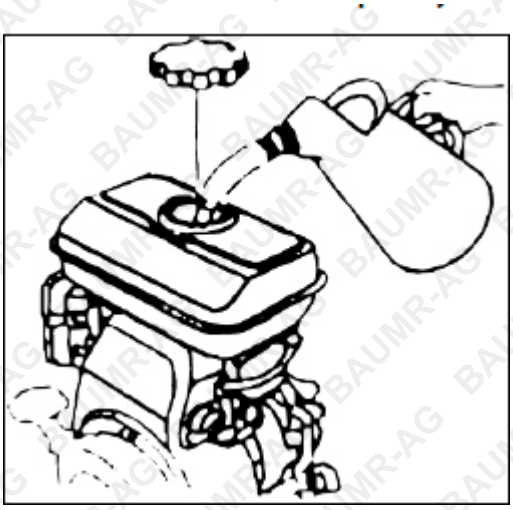
Air Filter

Inspect the filter element for any accumulation of dirt or debris. Clean or replace if necessary.

CAUTION! Never operate the engine without an air filter, as this may cause severe engine wear.

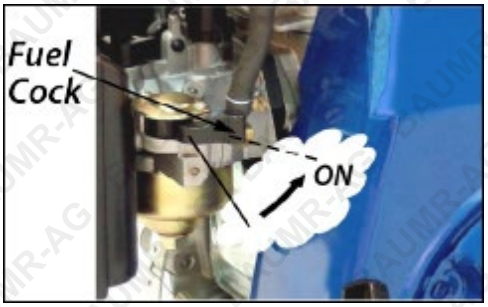
Fuel and Fuel Tank

- Fuel: Fill the engine with unleaded petrol. Using unleaded petrol helps reduce emissions and prolong engine life.
- Never use oil/petrol mixtures or contaminated fuel. Prevent dirt, dust or water from entering the fuel tank.
- Fuel Tank Capacity: 1.4 litres.

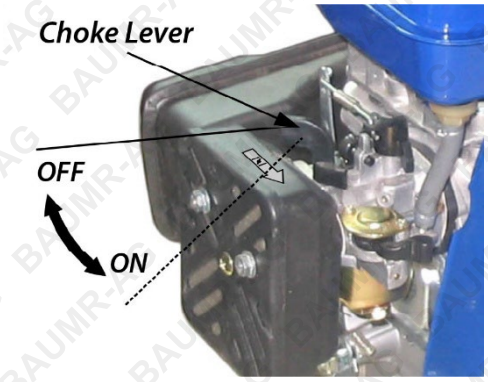


Starting the Engine

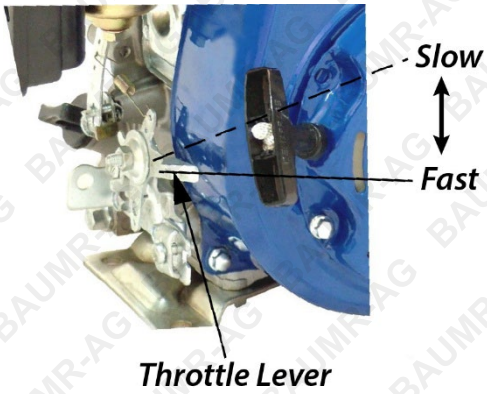
1. Move the fuel tap to the ON position.



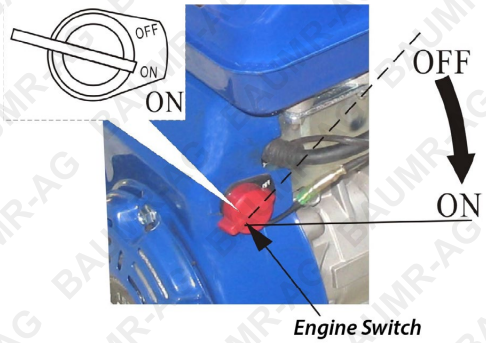
2. Move the choke lever to the ON position.



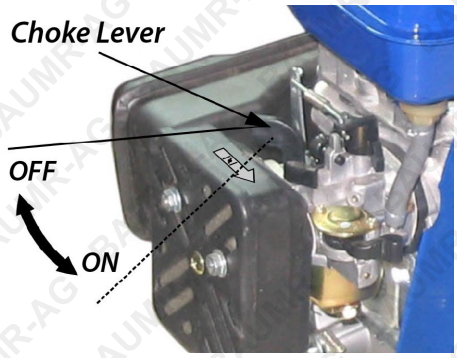
3. Move the throttle lever slightly towards the FAST position.



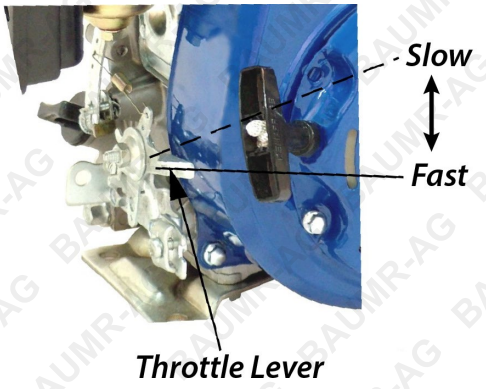
4. Turn the engine switch to the ON position and pull the recoil starter to start the engine.



5. Once the engine has started, move the choke lever to the OFF position. Allow time for the engine to warm up.



6. Move the throttle lever backwards to the midpoint or to the point that the rev's become steady.



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Highland Operation

NOTE: Do not use the choke if the engine is warm or if the ambient temperature is high.

- At high altitudes, the standard carburettor air/fuel mixture may be too rich, which can reduce engine performance and increase fuel consumption.
- High-altitude performance can be improved by installing a smaller diameter main fuel jet in the carburettor and adjusting the idle mixture and idle speed screws. If the engine is consistently used at altitudes above 1,830 metres above sea level, consult the manufacturer for carburettor adjustment.
- Engine power will decrease by approximately 3.5% for every 305 metres increase in altitude, even with correct carburettor adjustment. The effect is greater if no adjustments are made.

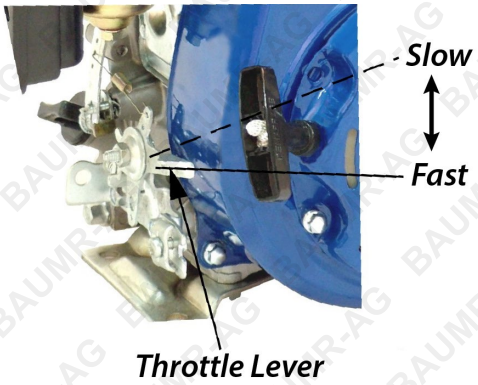
NOTE: Engines fitted with main jets for high-altitude use may be damaged if operated below the specified altitude. This is due to a lean air/fuel mixture, which may cause reduced output and engine overheating. In such cases, contact the manufacturer to restore the engine to its standard configuration.

Stopping the Engine

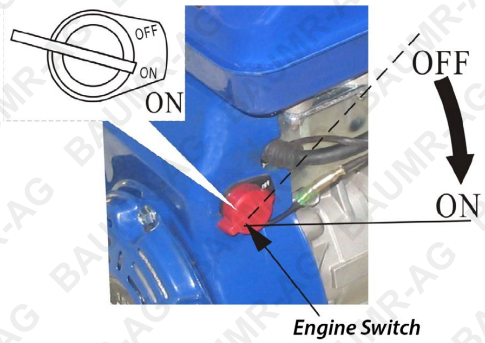
In an emergency, move the engine switch to the OFF position to stop the engine.

For normal shutdown, follow this sequence:

1. Move the throttle lever to the SLOW position.



2. Turn the engine switch to the OFF position.



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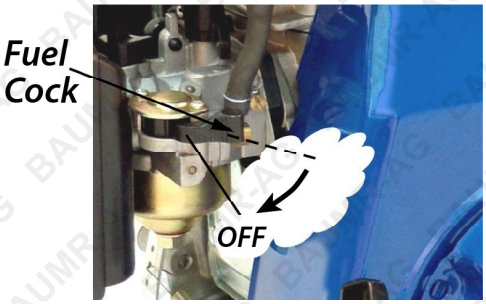
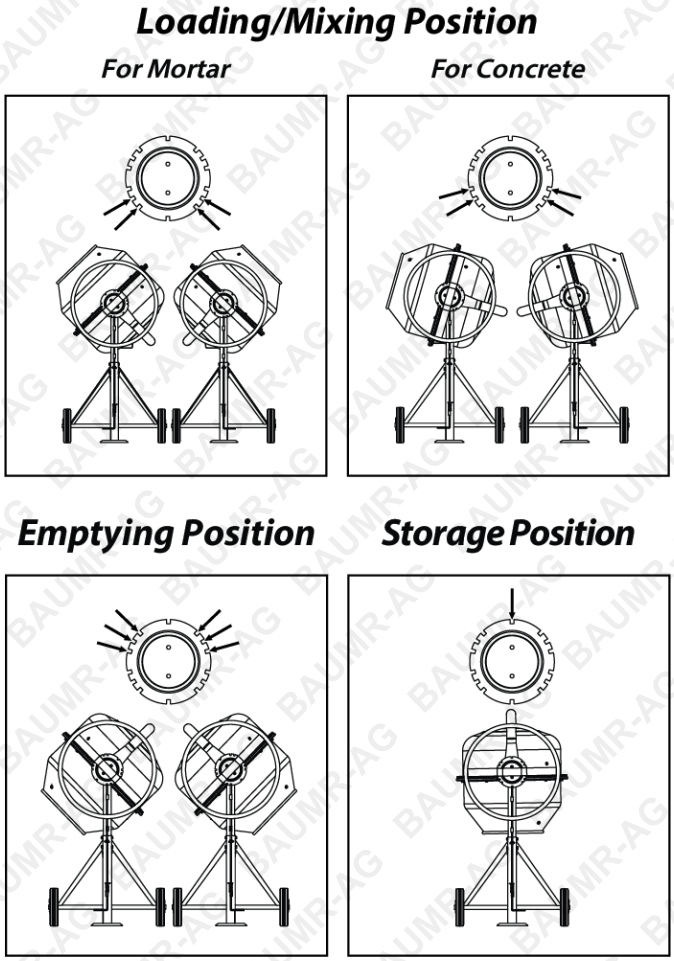
3. Turn the fuel cock to the OFF position.



Drum Tilting

- The spring-loaded tipping wheel with locking lugs allows easy control of the drum, which can be locked in three positions.
- The drum is secured by a self-locating tipping wheel that engages with the locking plate on the mixer frame. To tilt the drum, rotate the tipping wheel to disengage the locking lugs. This allows the drum and tipping wheel to rotate together.
- To lock the drum in position, align the lugs with the slots, slightly rotate the tipping wheel while holding the drum, until the lugs engage with the locking plate on the mixer frame.



Loading

WARNING! Always start the mixer before loading the drum. Load only while the drum is rotating.

WARNING! Do not throw material into the mixer, as it may stick to the back of the drum. Feed material steadily over the rim.

NOTE: A built-in thermal protector is fitted to the motor to prevent overheating. The protector will automatically reset once the motor has cooled down.

For best results, proceed as follows:

- Add the required amount of gravel to the drum.
- Add the required amount of cement to the drum.
- Add the required amount of sand to the drum.
- Add the required amount of water to the drum.

Maintenance

ATTENTION: Surface corrosion will occur on metal surfaces over time and the rate of oxidation depends on factors such as proximity to the ocean and humidity or condensation of water vapour on metal surfaces. To mitigate this, WD40 can be used to remove surface corrosion then, when applied periodically, it will prevent rust from forming.

Maintenance Schedule

Regular inspection and adjustment of the engine are essential for maintaining performance. Consistent maintenance will also help extend service life. Refer to the table below for recommended service intervals and procedures.

Item	Task	Each Time	First Month or 20 Hours	Each Session or 50 Hours	Every 6 Months or 100 Hours	Each Year or 300 Hours
Engine Oil	Oil Level Check	✓				
	Replace		✓		✓	
Air Filter	Check	✓				
	Clean					
Carburettor Bowl	Clean			✓*	✓	
Spark Plug	Check/Clean				✓	
Valve Clearance	Clean					✓**
Combustion Chamber	Clean					✓**
Fuel Tank & Fuel Filter	Clean					✓**
Fuel Supply Line	Clean	Every 2 years (replace if necessary)				

**Note: Clean more frequently if the mixer is used in dusty environments.*

***Note: Items marked for service should be carried out by a qualified technician.*

WARNING! Switch off the engine before performing any maintenance.

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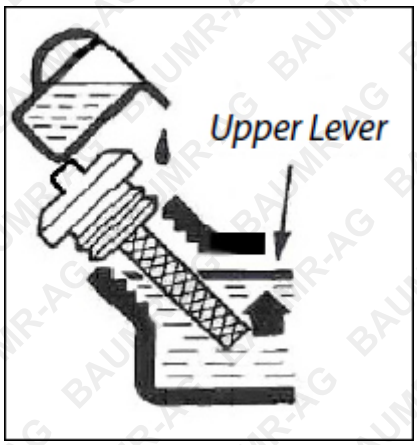
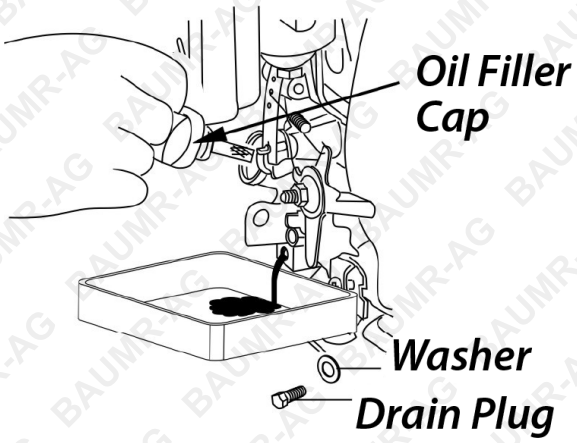
Changing the Engine Oil

It is recommended to drain the engine oil while it is still warm to ensure complete drainage.



1. Remove the oil filler cap and drain plug to allow the oil to drain.
2. Reinstall and securely tighten the drain plug.
3. Refill with the specified amount of engine oil and check the level.
4. Reinstall the oil filler cap.



Servicing the Air Filter

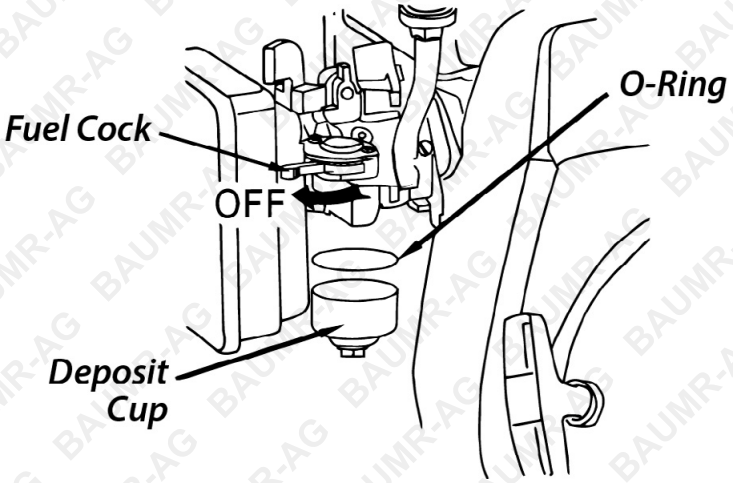
A dirty air filter can restrict airflow to the carburettor and affect performance. Inspect and clean regularly. Increase maintenance frequency in dusty conditions.

WARNING! Never clean the air filter element with petrol or low flash-point solvents, as this may cause an explosion. Never operate the engine without an air filter, as this may allow dirt and debris to enter the engine and accelerate wear.

1. Remove the two M5 nuts and take off the air filter cover. Remove the filter element.
2. Wash the element in a non-flammable or high flash-point solvent and allow it to dry thoroughly.
3. Soak the element in clean engine oil until saturated, then squeeze out excess oil.
4. Reinstall all components in reverse order.

Cleaning the Carburettor Bowl

1. Turn the fuel cock to the OFF position, then remove the carburettor bowl and O-ring.
2. Clean using a non-flammable or high flash-point solvent and dry thoroughly.
3. Reinstall all parts.
4. Turn the fuel cock to the ON position and check for leaks.

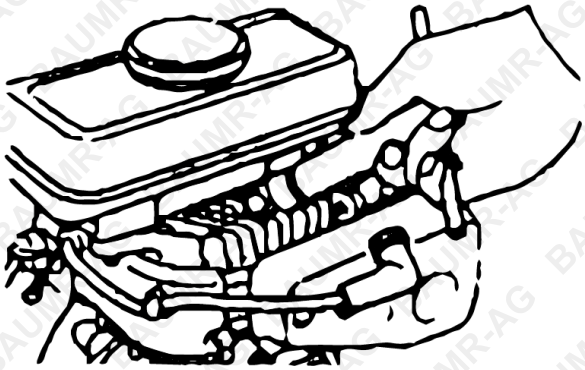


WARNING! After reinstalling the carburettor bowl, check for leaks and ensure the area around the engine is dry before operation.

Replacing the Spark Plug

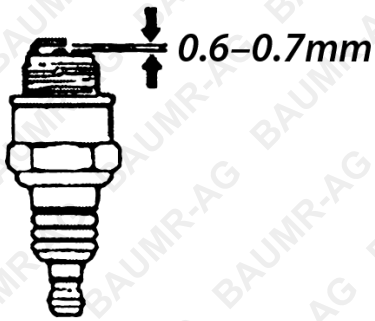
Correct spark plug clearance is essential for proper engine operation and to prevent deposits forming around the plug.

1. Remove the spark plug using a suitable spark plug spanner.

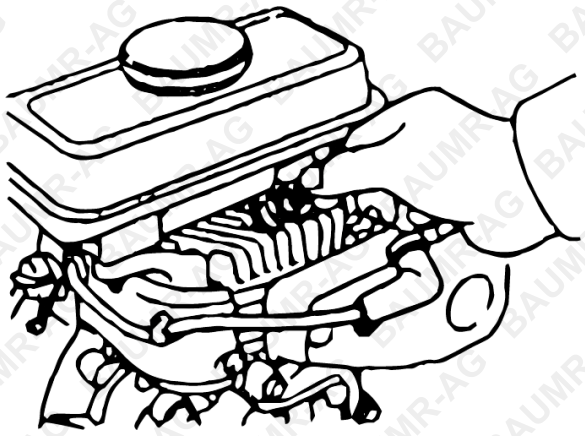


2. Inspect the spark plug. Clean it with a wire brush. If the insulator is cracked, chipped or shows excessive wear, replace the spark plug.

3. Measure the spark plug gap using a feeler gauge. The gap should be 0.6–0.7 mm. If adjustment is required, carefully bend the side electrode.



4. Check that the spark plug gasket is in good condition and replace if necessary. Screw the spark plug in by hand first to avoid cross-threading.
5. Once seated, tighten the spark plug with a spanner to compress the gasket.



NOTE: If fitting a new spark plug, tighten an additional 1/2 turn after seating. If reinstalling the original spark plug, tighten a further 1/8–1/4 turn.

WARNING! Ensure the spark plug is securely tightened. A loose plug may overheat and damage the engine. Use only the recommended spark plug type or equivalent. An incorrect heat range may cause engine damage.

Cleaning and Storage

Emptying

WARNING! Do not switch off the mixer while it is under load. Empty the drum while it is rotating.

Cleaning

WARNING! Never place hands or objects inside the drum while it is rotating.

- Clean the mixer thoroughly at the end of each day's use. Keeping the mixer clean will ensure efficient operation and extend service life.
- Even small amounts of residual material will harden and build up over time, reducing performance. Remove hardened material from the drum after use.
- Do not use bricks or strike the drum with tools such as shovels or hammers to remove hardened material, as this may damage the mixer.
- The drum can be cleaned by running a mixture of gravel and water for approximately 2 minutes. Empty the mixture, then hose down the drum inside and out.

WARNING! Do not pour or spray water directly onto the motor cover, particularly into openings.

WARNING! Wipe off any material from the motor cover. Do not use petrol, turpentine, lacquer thinner, dry cleaning fluids or similar products. These may damage the cover material.

- Before cleaning or performing maintenance, ensure the tool is switched off and disconnected from the power supply.
- Compressed air is the most effective method for cleaning tools. Always wear safety glasses when using compressed air.
- Keep ventilation openings and switch levers clean. Do not clean by inserting objects into openings.
- Do not use harsh chemicals or solvents when cleaning this tool.
- If any parts are damaged or broken, contact the manufacturer for replacement parts and advice.

Transport

- Transport the concrete mixer with the fuel cock in the OFF position.
- Allow the engine to cool before transporting or storing to reduce the risk of burns or fire.

Storage

- When not in use, store the mixer in a dry location to prevent rust.
- Keep the mixer out of reach of children and unauthorised persons.

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Long-Term Storage

1. When storing the mixer for extended periods, drain the fuel as follows:
   a. Turn the fuel cock to the OFF position. Remove the carburettor bowl and clean it.
   b. Turn the fuel cock to the ON position and drain the fuel into a suitable container.
   c. Reinstall the carburettor bowl.
   d. Loosen the carburettor drain screw to drain any remaining fuel.
2. Change the engine oil.
3. Remove the spark plug and pour approximately one tablespoon of clean engine oil into the cylinder. Pull the starter several times to distribute the oil, then reinstall the spark plug.
4. Pull the starter rope slowly until resistance is felt. This helps close the valve and prevents dust from entering the cylinder, reducing the risk of rust.
5. Cover the engine to prevent dust ingress.

Checking for Spark

1. Disconnect the spark plug cap. Clean any dirt from around the spark plug base, then remove the spark plug.
2. Refit the spark plug into the cap.
3. Ground the side electrode against the engine body and pull the recoil starter to check for a spark across the gap.
4. If no spark is present, contact the manufacturer for assistance.

Specifications

Body Material	Steel - Heavy Duty
Motor Type	3.0HP Petrol Engine
Power Type	Petrol Engine
Power (Watts)	2250W
Drum Capacity	160L
Drum Diameter	630mm
Drum Mouth	390mm
Drum Speed	45 RPM
Ring Gear Type	Cast Iron

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Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging, and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear, or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear, or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business, or employee, or financially affect the user, business, or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement, or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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