

Portable Cement Mixer



Owner's Manual 3.5 Cu. Ft.

! WARNING: Read and understand all instructions, warnings, and cautions before using this product. Failure to follow the instructions, warnings, and cautions may result in serious personal injury and/or property damage.

Item GWG311796

SAVE THESE INSTRUCTIONS



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Thank you very much for choosing a Brave product!

For future reference, please complete the owner's record below:

Item Number: GWG311796

Serial Number/Lot Date Code: _____

Purchase Date: _____

Save the receipt, warranty, and this manual.

These cement mixers are designed for certain applications only. Brave Equipment cannot be responsible for issues arising from modification or use of this product in an application for which it was not designed. Do not modify and/or use for any application other than that for which it was designed.

For technical questions, please call 1-800-350-8739



Intended Use

These portable electric cement mixers are ideal for smaller concrete jobs such as footings and bases, binding block and concrete patching. When the job is complete, the portable electric cement mixers easily fit into the trunk of most vehicles

Technical Specifications -

Property	Specification
Power Consumption	120 VAC, 60Hz, single phase, 1/2HP
Drum	Polyethylene construction Loading capacity: 3.5 Cu. Ft. Mixing capacity:1.77 Cu. Ft.
Drum Opening	14-1/2"
Drum Speed	26 RPM
Tires	13" dia. X 4" wide
Weight	90 lbs.

Important Safety Information**⚠ WARNING**

- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- DO NOT allow persons to assemble or operate this product until they have read this manual and have developed a thorough understanding of how the product works.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will do the job better and more safely at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.

⚠ WARNING

- Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:
 - lead from lead-based paints,
 - crystalline silica from bricks and cement and other masonry products, and
 - arsenic and chromium from chemically treated lumber.Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.
- Handling the power cord on corded products may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

⚠ WARNING**WORK AREA SAFETY**

- Inspect the work area before each use. Keep the work area clean, dry, free of clutter, and well lit. Cluttered, wet, or dark work areas can result in injury.
- Do not use the tool where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The tool can create sparks, which may ignite the flammable liquids, gases, or dust.
- Do not allow the tool to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the tool.
- Be aware of all power lines, electrical circuits, water pipes, and other mechanical hazards in your work area. Some of these hazards may be hidden from your view and may cause personal injury and/or property damage if contacted.

⚠ WARNING**ELECTRICAL SAFETY**

- Always check to ensure the power supply corresponds to the voltage on the rating plate.
- Do not abuse the cord. Never carry or pull a cement mixer by its power cord, or yank power cords or extension cords from the receptacle. Keep power and extension cords away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords may cause a fire and increase the risk of electric shock.
- Grounded motors must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- When operating an electric cement mixer outside, use an outdoor extension cord marked "W-A" or "W." These cords are rated for outdoor use and reduce the risk of electric shock.
- Use only Listed extension cords. If used outdoors, they must be marked For Outdoor Use. Those cords having 3-prong grounding type plugs and mating receptacles are to be used with grounded cement mixers.
- Check the name plate rating of the cement mixer. Use of improper size or gauge of extension cord may cause unsafe or inefficient operation of the cement mixer. Be sure the extension cord is rated to allow sufficient current flow to the motor. Use the following table to determine the proper extension cord wire gauge.

⚠ CAUTION**CEMENT MIXER USE AND CARE**

- Do not force the cement mixer to perform an operation other than its intended use. Cement mixers do a better and safer job when used in the manner for which they are designed. Plan your work and use the correct cement mixer for the job.
- Do not use a cement mixer with a malfunctioning power switch. Any cement mixer that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before using.
- Disconnect the power supply from the cement mixer and place the power switch in the locked or off position before servicing, adjusting, installing accessories or attachments, or storing. Such preventive safety measures reduce the risk of starting the cement mixer accidentally.
- Check for damaged parts before each use. Carefully check that the cement mixer will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the cement mixer with a damaged part.
- Store the cement mixer when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the cement mixer for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with the cement mixer. Accessories that may be suitable for one cement mixer may create a risk of injury when used with another cement mixer.
- Keep guards in place and in working order.
- Keep the cement mixer blades clean.
- Do not leave the cement mixer running unattended.

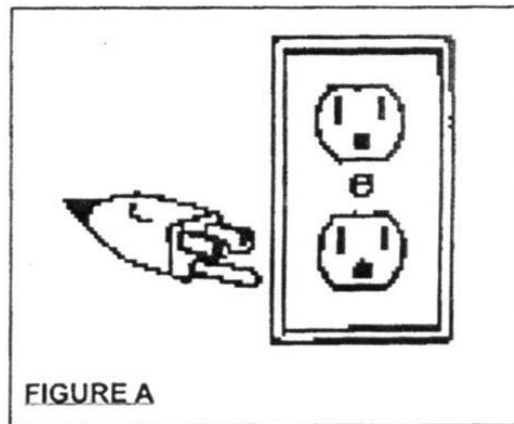
Grounding

Grounded Tools: Tools with 3-Prong Plugs

Tools marked with **Grounding required** have a 3-wire cord and 3-prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. (See Figure A.)

The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically live terminal. (See Figure A.)

Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration.





Extension Cords

- Grounded tools require a 3-wire extension cord. Double Insulated tools can use either a 2- or 3-wire extension cord.
- As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage.
- The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14-gauge cord can carry a higher current than a 16-gauge cord. Minimum extension cord wire size is shown in the following table:

Minimum Wire Size Of Extension Cords				
Nameplate AMPS	Cord Length			
	25'	50'	100'	150'
0-6	18 AWG	16 AWG	16 AWG	14 AWG
6-10	18 AWG	16 AWG	14 AWG	12 AWG
10-12	16 AWG	16 AWG	14 AWG	12 AWG
12-16	14 AWG	12 AWG	NOT RECOMMENDED	

- When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required.
- If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size.
- If you are using an extension cord outdoors, make sure it is marked with the suffix **W-A** (**W** in Canada) to indicate it is acceptable for outdoor use.
- Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
- Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

Assembly Instructions

1. Place the frame assembly (16) in a clean work area with a flat, level floor surface. (See Fig.1)
2. Align the holes of two handles (21) and the frame assembly (16) and insert the hex bolt (20), hex nut (17), spring washer (18) flat washer (19), then secure handle sleeve (22) to the handle (21). (See Fig.2 or See Parts Diagram.)
3. Slide the wheel shaft (40) through (in order): one side of the frame, a wheel (with the long side of the bearing casing of the wheel towards the frame; see cover photo), the interval tube, the other wheel (long side of bearing casing towards the other side of the frame), and the other side of the frame. Attach a locking collar (36) to both ends of the wheel shaft outside the frame and tighten the locking screw (39). (See the parts diagram.)
4. Secure the motor & gear box assembly (31) to the four holes in the frame assembly (16) with flat washer (28), spring washer (29) and hex nut M6 (30). Tighten them by wrench. (See the parts diagram.)
5. Attach the protective net (27) to the frame assembly (16). Secure the net with three bolts M6 x 16 (23) above the net, then the frame and flat washers 6 (24), spring washers 6 (25) and nuts M6 (26) on each bolt. (See the parts diagram.)
6. Secure the drum (6) to the gearbox shaft with T- bolt assembly (1). Align the drum collar notch with the motor set screw to fully engage the drum. Tighten firmly with a wrench. Tighten Motor set screw. (See Fig.4 & 5 or the parts diagram.)
7. Secure the mixer blades (2) to the inner side of drum (3): Start with bolts M8 x 20 (1) on the outside of the drum pushed through the blade holes into the drum, then a leather washer (8) next to the drum inside, and the mixer blades. Secure the blades with flat washer 8 (9), spring washer 8 (10) and nuts M8 (11). (See the parts diagram.)
8. The cement mixer assembly is complete. Retighten all nuts and bolts.



Fig.1



Fig.2



Fig.3



Fig.4



Fig.5



Operating Instructions

⚠ WARNING

Do not move the cement mixer when it is full and/or in operation. Personal injury could result.

Do not operate the cement mixer if any parts are worn or damaged. Faulty operation and possible personal injury could result.

1. Place the cement mixer on a solid, level surface.
2. Inspect the cement mixer for worn or damaged parts and repair or replace any parts as needed before use.
3. Connect the motor's power cord to an electric outlet (or properly rated three-prong extension cord).
4. To start the cement mixer, turn the motor's power switch on the motor to the ON position.
5. With the drum rotating, load material into the drum:
Typical maximum quantities include: 2 gallons water with 3 shovels of cement and 15 shovels aggregate rock (using a size 3 shovel, not included.)

Maintenance

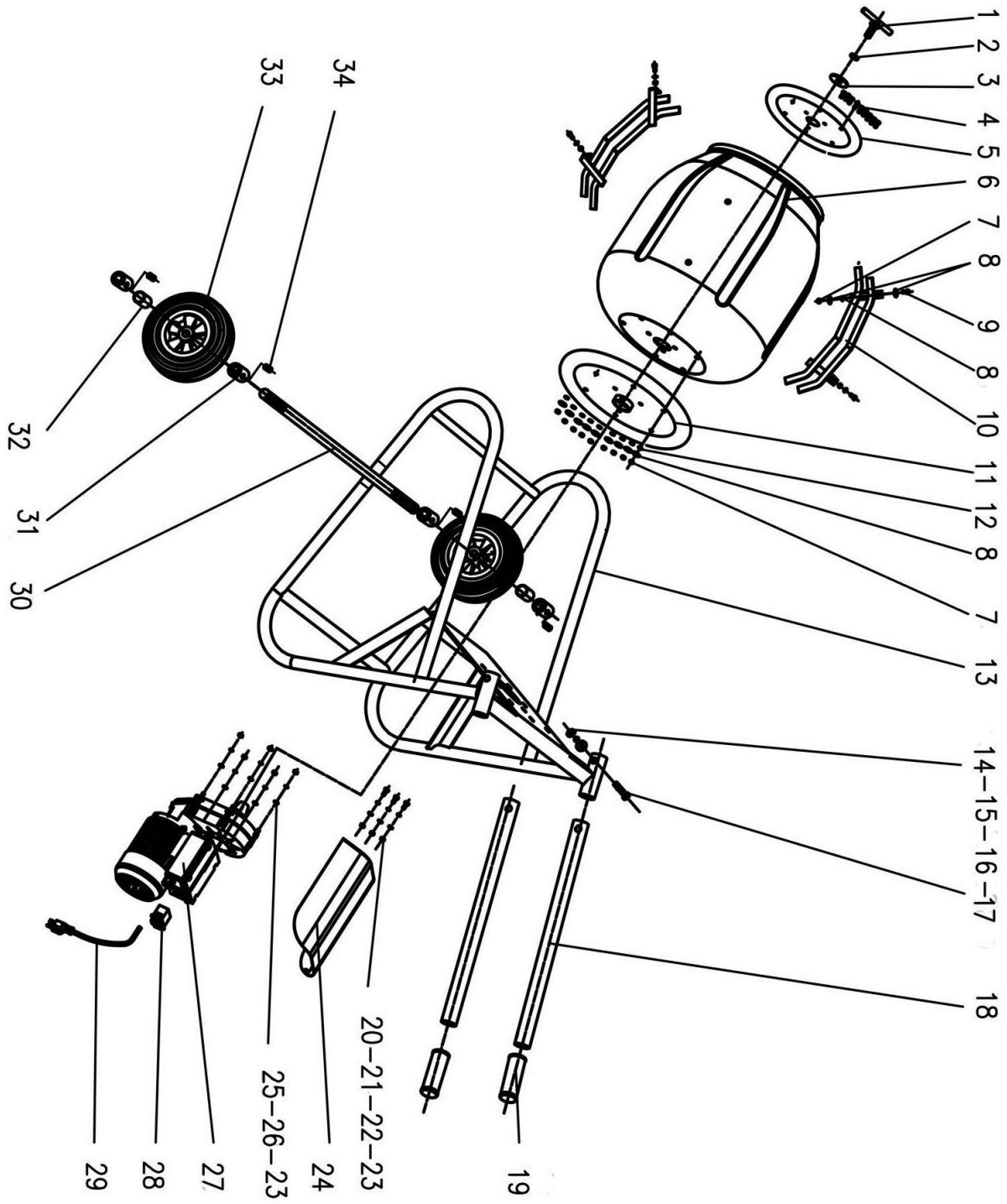
⚠ WARNING

Make sure the cement mixer is turned off and disconnected from power before attempting any maintenance, cleaning, or inspection to prevent accidental starts and possible personal injury.

Maintain the cement mixer by adopting a program of conscientious repair and maintenance in accordance with the following recommended procedures:

- After each use, immediately wash out all debris from the inside and outside of the cement mixer.
- Keep the motor clean and free of buildup.
- Do not apply water in or around the motor.
- Periodically recheck all nuts, bolts, and screws for tightness.
- Lightly grease all moving parts.

Parts Diagram



**Parts List**

REF#	Part#	Description	Quantity per
1	GPR113769	T Bolt Assembly M14 x 35	1
2	GPR113770	Spring Washer 14	1
3	GPR113771	Flat Washer 14	1
4	GPR113772	Hex Bolt M10 x 30	9
5	GPR113773	Connect Plate	1
6	GPR113774	Poly Drum	1
7	GPR113775	Hex Nut M10	13
8	GPR113776	Flat Washer 10	21
9	GPR113777	Hex Bolt M10 x 25	4
10	GPR113778	Mixer Blade	2
11	GPR113779	Drum Plate	1
12	GPR113780	Flat Spring Washer 10	9
13	GPR113781	Frame Assembly	1
14	GPR113782	Hex Nut M8	2
15	GPR113783	Spring Washer 8	2
16	GPR113784	Flat Washer 8	2
17	GPR113785	Hex Bolt M8 x 45	2
18	GPR113786	Handle	2
19	GPR113787	Handle Grip	2
20	GPR113788	Hex Bolt M6 x 16	3
21	GPR113789	Flat Washer M6	3
22	GPR113790	Spring Washer M6	3
23	GPR113791	Hex Nut M6	8
24	GPR113792	Motor cover	1
25	GPR113793	Motor Flat Washer M6	5
26	GPR113794	Motor Spring Washer M6	5
27	GPR113795	Motor and Gearbox Assembly	1
28	GPR113796	Switch	1
29	GPR113797	Power Cord	1
30	GPR113798	Wheel shaft	1
31	GPR113799	Locking Collar	4
32	GPR113800	Short Shaft Sleeve	2
33	GPR113801	Flat- Free 13-in. Wheel	2
34	GPR113802	Locking Screw M8 x 16	4

**Troubleshooting**

Problem	Solution
The drum will not turn on.	• Make sure that power is available and that the cord is fully plugged in to the socket. • Reset the motor speed reducer. • Check if the motor speed reducer is burned out. If so, replace it. • Make sure the drum is not overloaded. If so, remove some of the material.
Angle of the drum will not adjust	• Rotate the drum to make it match with the pin (26), then tighten the T bolt.

Replacement Parts

- For replacement parts and technical questions, please call Customer Service at 1-800-350-8739
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following will be required: model number, serial number/lot date code, and description.
- The distributor reserves the rights to make design changes and/or improvements to product lines and manuals without notice.







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Dear Valued Customer:

The Brave product you just purchased is built with the finest material and craftsmanship. Use this product properly and enjoy the benefits from its high performance. By purchasing a Brave product, you show a desire for quality and durability. Like all mechanical equipment this unit requires a due amount of care. Treat this unit like the high-quality piece of machinery it is. Neglect and improper handling may impair its performance.

Thoroughly read the instructions and understand the operation before using your product. Always contact Brave Product Support at 1-800-350-8739 prior to having any service or warranty work performed, as some services performed by parties other than Brave approved service centers may void this warranty. This limited warranty is in lieu of any other warranty expressed or implied, written or oral and Brave assumes no other responsibility or liability outside that expressed within this limited warranty.

Limited Warranty for Brave 3.5 Cu Ft. Mixer: Model GWG311796

	Consumer Warranty Period	Commercial Warranty Period
	Weldments	
	1 year from date of purchase by user	90 days from date of purchase by user
	Wear Parts	
	In addition to the normal warranty, Brave shall warrant some normal wear items from defects in material or workmanship for a period of 30 days from the date of purchase by user. Normal wear items covered under this warranty are limited to: High impact wear related components such as standard retention hardware for wear items, chains, bits, sprockets, bearings, belts and bushings, centrifugal clutch components such as shoes, springs, drum and rotor assembly, rotors, rubber drapes or flaps, drive and driven pulleys. Routine maintenance items such as lubricants, clutch adjustments, tune ups are not covered under warranty. Normal engine maintenance such as spark plugs, oil changes, air filters, adjustments, fuel system cleaning and obstruction due to build up is not covered by this Brave limited warranty.	

“Consumer use” means personal residential household use by a consumer. **“Commercial use”** means all other uses, including, but not limited to, use for commercial, income producing or rental purposes or when purchased by a business.

This limited warranty applies to the original purchaser of the equipment (verification of purchase, in the form of a receipt, is the responsibility of the buyer), is non-transferable, and covers parts and labor. Parts will be replaced or repaired at no charge, except when the equipment has failed due to lack of proper maintenance. If a part is no longer available, the part may be replaced with a similar part of equal function. Any misuse, abuse, alteration or improper installation or operations will void the warranty. Determining whether a part is to be replaced or repaired is the sole decision of Brave. Brave will not provide replacement of complete products due to defective parts. Any costs incurred due to replacement or repair of items outside of a Brave approved facility is the responsibility of the buyer and not covered under warranty. Transportation costs to and from the service center and/or service calls are the responsibility of the customer.

This limited warranty specifically excludes the following: failure of parts due to damage caused by accident, fire, flood, windstorm, acts of God, applications not approved by Brave in writing, corrosion caused by chemicals, use of replacement parts which do not conform to manufacturer's specifications, damage related to rodent and/or insect infestation and damage caused by vandalism. Additional exclusions: loss of running time, inconvenience, loss of income, or loss of use, including any implied warranty of merchantability of fitness for a specific use. Also, outdoor power equipment needs periodic parts and service to perform well, and this limited warranty does not cover instances when normal use has exhausted the life of a component or the engine.

This limited warranty does not cover any personal injury or damage to surrounding property caused by failure of any part, misuse, or inability to use the product. Alteration of the product, including safety features, shall void this limited warranty.

Repair or replacement of parts does not extend the warranty period. This limited warranty gives you specific legal rights. You may also have other rights that vary by state. Please have model number, item number and serial number on hand prior to making a warranty claim or inquiry.



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