BRAVEPRO

OPERATORS MANUAL

GREEN CONCRETE SAW

BRPCS110H SERIES

Table of Contents

SAFETY INFORMATON

1.1 Safety Precautions

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

This manual contains DANGER, WARNING, CAUTION callouts which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

1.2 Operating Safety

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.
The following safety guidelines should always be used when operating this concrete saw:

- **DO NOT** operate or service this equipment before reading the entire manual.
- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate this equipment under the influence of drugs or alcohol.
- **NEVER** use accessories or attachments, which are not recommended by Brave Products for this equipment. Damage to the equipment and/or injury to user may result.
- The manufacturer does not assume responsibility for any accident due to equipment modifications.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- **ALWAYS** check the machine for loosened threads or bolts before starting.
- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or saw.
- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with **hot** components can cause serious bums.
- The engine section of this saw requires an adequate free flow of cooling air. **NEVER** operate the saw in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the saw or engine and may cause injury to people. Remember the saw's engine gives off **DEADLY** carbon monoxide gas.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with flammable liquids. When refueling, stop the engine and allow it to cool. **DO NOT** smoke around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.
- **NEVER** operate the saw in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.
- Topping-off to the ***fuel*** filler port is dangerous, as it tends to spill fuel。
- **NEVER** use fuel as a cleaning agent.
- **ALWAYS** read, understand, and follow procedures in operator's Manual before attempting to operate equipment.
- **ALWAYS** be sure the operator is familiar with proper safety precautions and operating techniques before using the saw.

- Stop the engine when leaving the saw unattended.
- Block the unit when leaving or when using on a slope.
- Maintain this equipment in a safe operating condition at all times.
- **ALWAYS** stop the engine before servicing, adding fuel and oil.
- **NEVER** Run engine without air filter. Severe engine damage may occur.
- **ALWAYS** service air cleaner frequently to prevent carburetor malfunction.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **NEVER** operate this saw in areas that contain combustible material or fumes. Fire and/or explosions may result from errant sparks from the equipment.

WARNING

- **DO NOT** operate this equipment unless all guards and safety devices are attached and in place.
- Caution must be exercised while servicing this equipment. Rotating and moving parts can cause injury if contacted.
- Keep all inexperienced and unauthorized people away from the equipment at all times.
- Unauthorized equipment modifications will void all warranties.

1.3 Blade Safety

- Use appropriate steel centered diamond blades manufactured for use on concrete saws.
- **ALWAYS** inspect diamond blades before each use. The blade should exhibit no cracks, dings, or flaws in the steel centered core and/or rim. Center (arbor) hole must be undamaged and true. Examine blade flanges for damage, excessive wear and cleanliness before mounting blade. Blade should fit snugly on the shaft and against the inside/outside blade flanges.
- Ensure that the blade is marked with an operating speed greater than the blade shaft speed of the saw.
- Only cut the material that is specified by the diamond blade. Read the specifications of the diamond blade to ensure the proper tool has been matched to the material being cut.
- ALWAYS keep blade guards in place. Exposure of the diamond blade must not exceed 180 degrees.
- Ensure that the diamond blade does not come into contact with ground or surface during transportation. **DO NOT** drop the diamond blade on ground or surface.
- The engine governor is designed to permit maximum engine speed in a no-load condition. Speeds that exceed this limit may cause the diamond blade to exceed the maximum safe allowable speed.
- Ensure that the blade is mounted for proper operating direction.

1.4 Transportation Safety

- Use the lifting bail and appropriate lifting equipment to ensure the safe movement of the saw.
- **DO NOT** use the handle bars and/or front pointer as lifting points.
- **NEVER** tow the saw behind a vehicle.
- Ensure that both pointer bars are positioned appropriately to minimize their exposure during transportation.
- Safeguard against extreme saw attitudes relative to level. Engines tipped to extreme angles may cause oil to gravitate into the cylinder head making the engine difficult to start.
- **NEVER** transport the saw with the blade mounted.

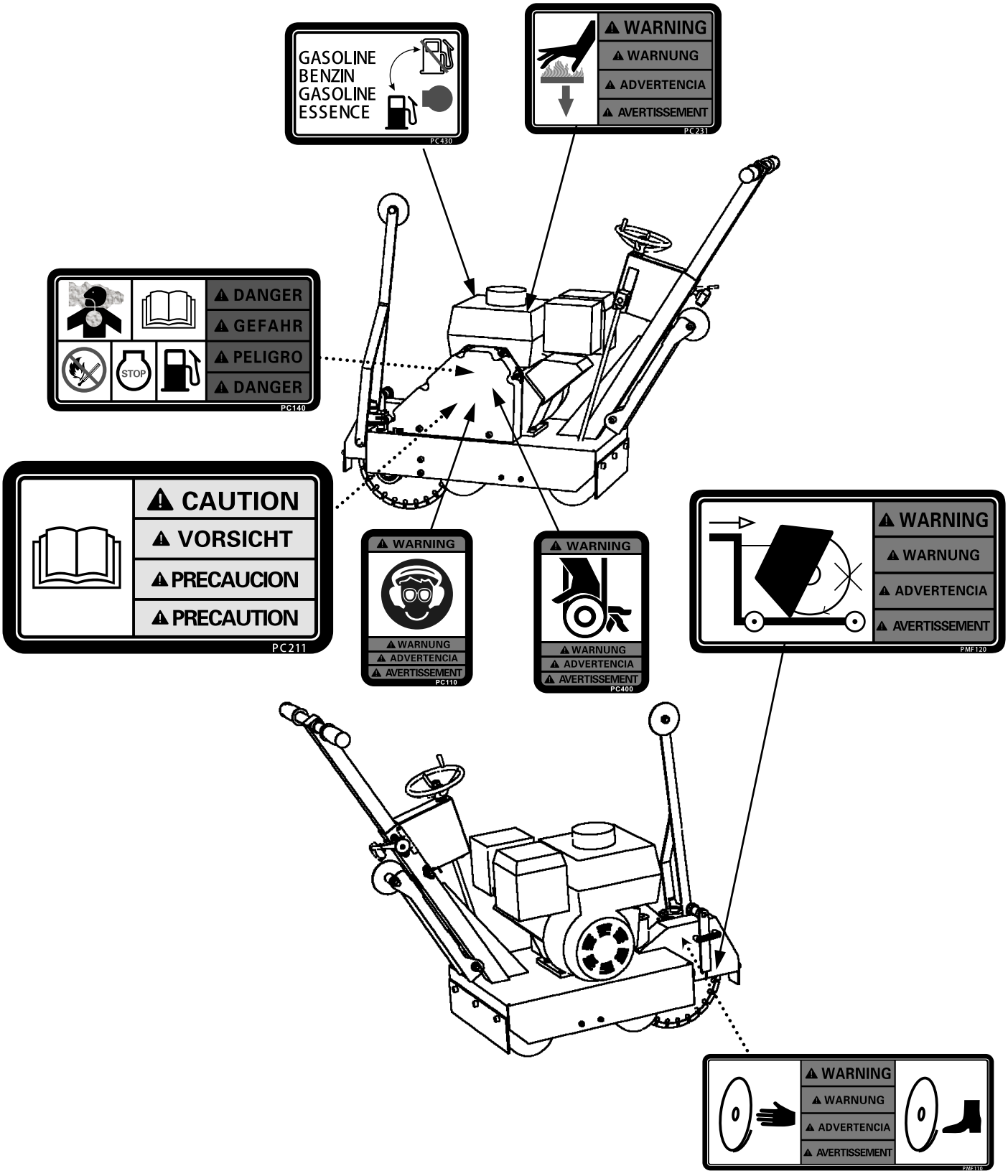
1.5 Service Safety

- **NEVER** lubricate components or attempt service on a running machine.
- **ALWAYS** allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in running condition.
- Fix damage to the machine immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

1.6 Operator Safety while using Internal Combustion Engines

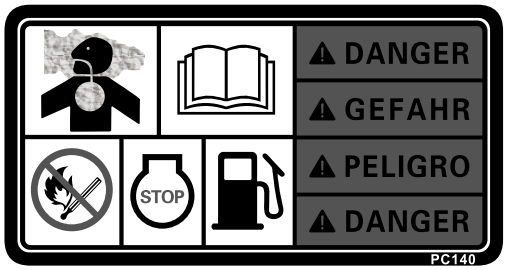
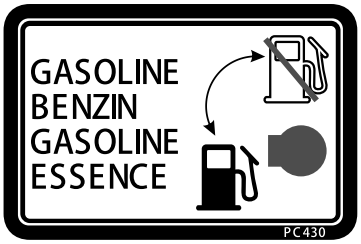
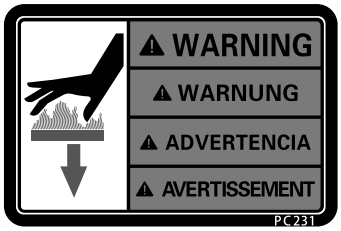
- DO NOT smoke when refueling the engine or operating the machine.
- DO NOT refuel a hot or running engine.
- ALWAYS keep away from all hot or spark-generating objects when refueling the engine.
- NEVER refill the fuel tank until the machine has cooled and is in a well-ventilated environment.
- DO NOT spill fuel when refueling the engine.
- ALWAYS take care to use the right type of fuel.
- ALWAYS inspect the fuel leakage regularly.
- NEVER perform any work on the machine while it is running. Before working on it, stop the engine and disconnect the spark plug wire to prevent accidental starting.
- Avoid prolonged breathing of exhaust gases.
- ALWAYS transport and handle fuel only when contained in approved safety containers.
- Avoid touch or lean against hot exhaust pipes.
- Allow engine to cool before performing any repairs or service.
- ALWAYS keep the area around the muffler free of debris such as leaves, paper, cartons, etc. A hot muffler could ignite the debris and start a fire.

SAFETY INFORMATON

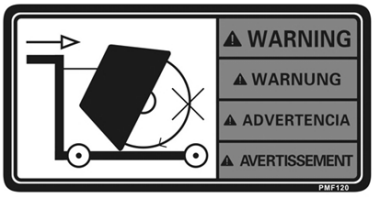
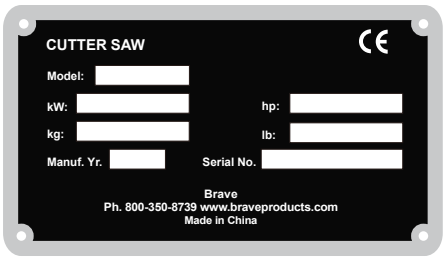


1.8 Safety and operating Labels

BravePro machines use international pictorial labels where needed. These labels are described below:

Label	Meaning
	DANGER! Engines emit carbon monoxide; operate only in well-ventilated area. Read the Operation Manual for machine information. No sparks, flames, or burning objects near the machine. Shut off the engine before refueling. Use only clean, filtered unleaded gasoline.
	CAUTION! Use only clean, filtered gasoline fuel.
	WARNING! Hot surface!
	WARNING! Always wear hearing and eye protection when operating this machine.
	CAUTION! Read and understand the supplied Operators Manual before operating the machine. Failure to do so increase the risk of injury to yourself or others.

SAFETY INFORMATION

Label	Meaning
	WARNING! Hand injury if caught in moving belt. Always replace belt guard.
	WARNING! All displacement of the machine outside the cutting area shall be carried out with the tool not in rotation.
	WARNING! Cutting hazard. Always replace blade guard!
	A nameplate listing the model number and serial number is attached to each unit. Please record the information found on this plate so it will be available if the nameplate is lost or damaged. When requesting service information, the serial number should be specified of the unit.
	WARNING! Fire Hazard.
	WARNING! Exposure hazard.

2. OPERATION

2.1 Application

This equipment is designed for dry sawing of concrete slabs utilizing diamond blades. The equipment has been engineered for general and industrial flat sawing applications that include: Joint Sawing of Green Concrete, Decorative Sawing in Cured Concrete, Light Demolition Sawing and “V“ Groove Beveling. The simple and compact nature of the machine makes it a perfect sawing tool for one person to operate and transport. The saw combines innovative features, top quality components, and a committed attention to state-of-the-art manufacturing.

2.2 Operating Principle

The following instructions were compiled to provide you information on how to obtain long and trouble free use of the unit. Periodic maintenance of this unit is essential. Read the manual in its entirety and follow the instructions carefully. Failure to do so may injure yourself or a bystander.

2.3 Delivery Checks

Immediately upon taking delivery of your new equipment and before putting it into service:

- Read the operation manual completely—it could save a great deal of unnecessary expense.
- Read the engine manual supplied.
- Check the general condition of the equipment—has it been damaged during delivery? Any damage should be immediately reported to the carrier and a claim registered.
- Check engine oil level.
- Check fuel levels.

Recommend lubricants are detailed in the **engine manual**

2.4 Before Starting

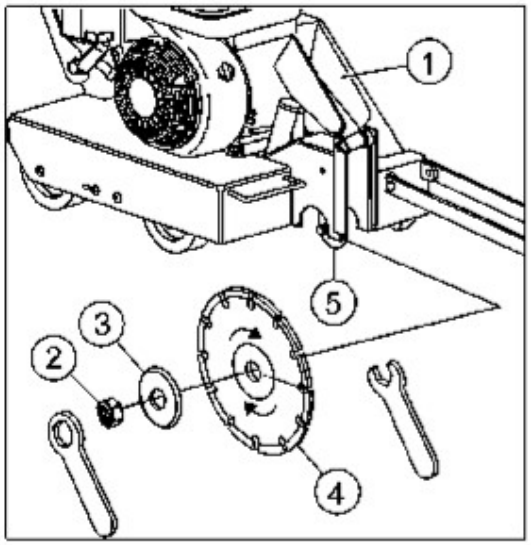
1. Read safety instructions at the beginning of manual.
2. Use correct blade for cutting conditions.
3. Clean the saw, removing dirt and dust, particularly the engine cooling air inlet, carburetor and air cleaner.
4. Check the air filter for dirt and dust. If air filter is dirty, replace air filter with a new one as required.
5. Check carburetor for external dirt and dust. Clean with dry compressed air.
6. Check fastening nuts and bolts for tightness.

CAUTION

Set unit up in an open area. Avoid close proximity to structures or other equipment. Failure to do so may cause inadvertent injury to operator or other persons in the area.

2.4.1 Blade Placement

1. Blade Guard – Pivot the blade guard front cover all the way back. The guard tension spring will keep the front cover in position.
2. Blade Hex Nut – Unscrew the blade shaft nut (right side loosens clockwise and tightens counter-clockwise while the left side loosens counter-clockwise and tightens clockwise). DO NOT overtighten the nut when finalizing the assembly.
3. Outside Blade Flange (Collar) – Ensure that the outside blade flange is placed flush against the diamond blade. The inside surface of the flange must be free of debris and permit a tight closure on the surface of the blade core.
4. Diamond Blade – Ensure that the proper diamond blade has been selected for the job. Pay close attention to the directional arrows on the blade. The blade's operating directional arrows must point in a " down – cutting " direction to perform correctly. When placing the blade onto the blade shaft, ensure the arbor hole of the blade matches the diameter of the shaft.
5. Inner Flange (Collar) – This flange is fixed upon the blade shaft. The inside surface of the flange must be free of debris and permit a tight closure on the surface of the blade.



2.5 To Start

1. Open the fuel shut-off valve by moving the fuel cock level to the open position.
2. Set the engine ON/OFF switch to the “ON” position.
   Set the throttle to the idle position by moving the throttle lever fully to the right. Do not start the engine on full throttle, as the compactor will vibrate as soon as the engine starts.
3. Grip the recoil starter handle and pull it until you feel slight resistance. Then pull sharply and quickly. Return the recoil starter handle to the starter case before releasing.

4. If the engine has started, return the choke lever slowly to full-open position. Be sure to perform a warm-up run for the period 3 to 5 minutes at low speed, while paying careful attention to gas leakage or abnormal sound.
5. If it is difficult to start the engine by repeatedly pulling the starter rope, remove ignition plug and check the sparking performance. If the plug is wet due to excessive fuel intake or soiled, replace or clean sufficiently . With the ignition plug removed, pull the recoil starter handle 2-3 times to discharge excessive blended gas.

2.6 To Stop

Stop the engine under normal conditions:

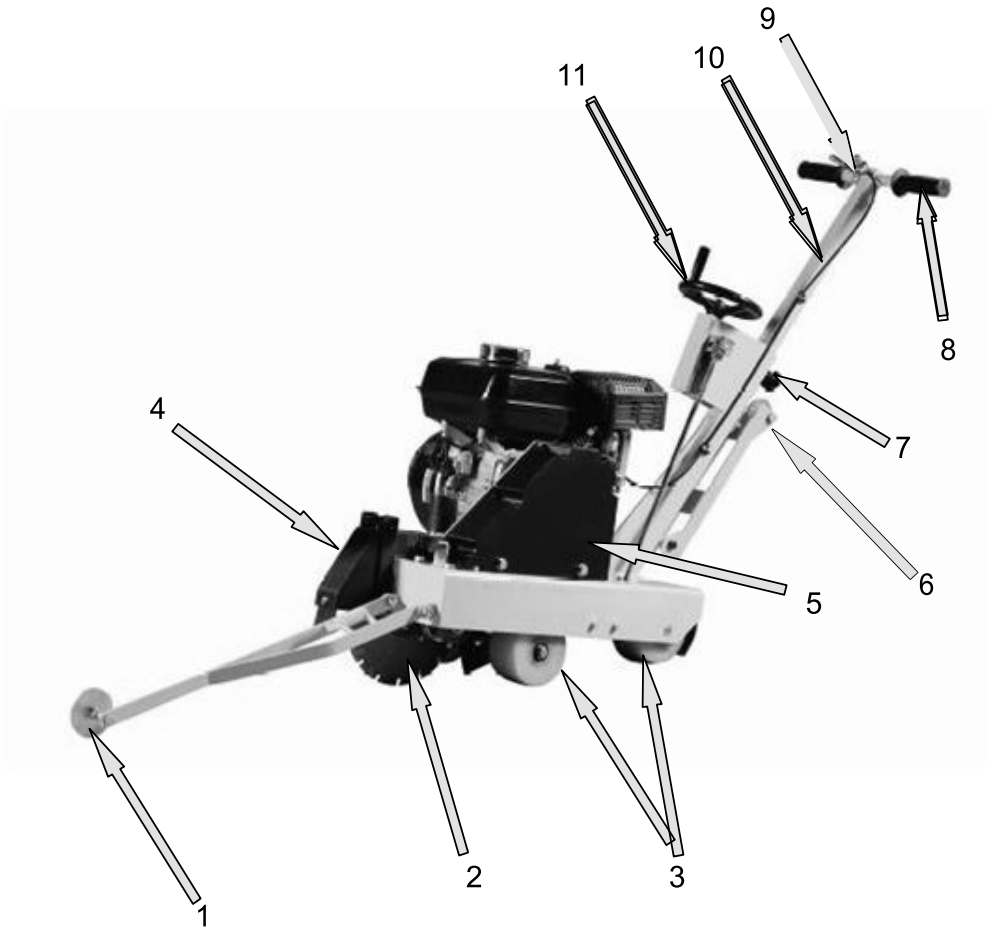
1. Place the engine throttle lever in the “Slow” position, and listen for the engine speed to decrease. Allow engine to run for 2 or 3 minutes for proper cool down.
2. Turn the engine ON/OFF switch to the “OFF” position.
3. Place the fuel valve lever to the OFF position.

2.7 Operation

1. Ensure the engine “ON/OFF” switch on the engine is in the “OFF” position to avoid accidental starting.
2. Place the fuel valve lever to the “ON“ position.
3. Place the engine Shutdown switch and the engine ON/OFF switch on the engine to the “ON“ position.
4. Place the Choke Lever in the “CLOSED” position.
5. Rotate the throttle lever halfway between Fast and Slow for starting. All sawing is done at full throttle. The engine governor speed is factory set to ensure optimum blade operating speeds.
6. Grasp the starter grip and slowly pull it out. The resistant becomes the hardest at a certain position, corresponding to the compression point. Pull the starter grip briskly and smoothly for starting.
7. If the engine has started, slowly return the choke lever to the “OPEN” position. If the engine has not started repeat steps 1 through 6.
8. Before the saw is placed into operation, run the engine for several minutes. Check for fuel leaks and noises that would be associated with a loose guards and/or covers.
9. Rotate the throttle lever toward full throttle.

10. To begin sawing, lower the rotating blade allowing it to cut to the present depth.
11. When blade has reached full cutting depth, slowly walk behind the saw at a rate that will allow the engine to operate without losing optimum RPM.
12. When the end of the cut has been reached, raise the blade out of the cut by pulling back on the handlebars (using a downward pressure) until the raise/lower rod drops into its slot with the blade in the raised position.
13. If cutting is complete, shut the saw down using the following “To stop Procedures”.

2.8 Controls & Components



1. Front Guide
2. Diamond Blade
3. Wheels
4. Blade Guard
5. Belt Guard
6. Rear Guide
7. Hand Lock
8. Handle Bar
9. Throttle Lever
10. Adjustable Handle
11. Depth Adjust Wheel

3. MAINTENANCE

3.1 Periodic Maintenance Schedule

The below chart list basic machine and engine maintenance. Refer to engine Operation Manual for additional information on engine maintenance. A copy of the engine Operation Manual was supplied with the machine when it was shipped.

Before operation:

1. Check the machine and safety devices for signs of damage and wear. Change if necessary.
2. Check the main switch for proper functioning. Change if necessary.

	Daily	Every 20 hours	Every 50 hours	Every 100 hours	Every 300 hours
Check fuel level.	O				
Check engine oil level.	O				
Inspect air filter. Replace as needed.	O				
Check the cutting blade for damage and tightness	O				
Check the direction of rotation arrow of the cutting blade	O				
Replace the engine oil		O			
Clean air filter, change if necessary			O		
Check the belt for tension and wear			O		
Clean the fuel filter.				O	
Change engine oil				O	
Clean spark plug				O	
Check idle setting					O
Change spark plug					O
Change air filter					O

MAINTENANCE

3.2 Lubrication

The long life and successful operation of any machinery is dependent on frequent and thorough lubrication. Before using the machine, always check the oil and use proper oil with the correct type and grade as recommended.

NOTICE: DO NOT mix types of engine oil and DO NOT overfill the oil. Damage to the machine may occur if oils are mixed or overfilled. See Technical Data for oil quantity and type.

3.3 Spark Plug

Check and clean spark plugs regularly. A fouled, dirty spark plug may cause hard starting and poor engine performance. Set spark plug gap to recommended clearance. Refer to engine manual.

WARNING

The muffler become very hot during operation and remain hot for a while after stopping the engine. Allow engine to cool before removing spark plug

MAINTENANCE

NOTICE: A loose spark plug can become very hot and may cause engine damage.

3.4 Air Cleaner

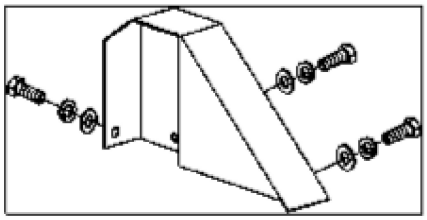
Maintaining a clean engine will extend engine life. Keep air filter clean at all times. Clean air filter using the recommended solvent daily. See engine manual for proper cleaning procedure. Let the filter dry before reinstalling.

3.5 Blade Removal and Replacement

1. Ensure the ON/OFF switch on the engine is turned to the "OFF" position.
2. Place the saw on a stable level working surface.
3. Ensure the blade is raised and the raise/lower rod is locked into position.
4. Raise the blade by appling a downward pressure on the handlebars to raise the blade and allow the raise/lower rod to drop into the " raised-position " slot.
5. Lift up the blade guard cover to gain access to the diamond blade.
6. Use the provided blade nut and blade shaft locking wrenches to install the diamond blade.
7. While holding the blade shaft with the locking wrench, remove the blade hex nut (clockwise direction) and outer blade flange.
8. Remove the old blade and install a new blade in the same rotational direction as marked on the blade.
9. Reinstall the outer blade flange and hex nut. Tighten the nut firmly (counter-clockwise direction). DO NOT OVER TIGHTEN.

3.6 Blade Guard Check

1. Check the following on the "blade guard": Ensure the capacity of the blade guard matches the diameter of your diamond blade.
2. Check that the guard is bolted firmly upon the saw frame.
3. Check that the spring tensioned front cover of the guard is firmly seated with the rear section of the guard, and there are no gaps. NEVER lift the blade guard while cutting.



3.7 V-belt Alignment and Tensioning

3.7.1 Remove the bolts that secure the V-belt cover to the saw frame.

3.7.2 Check uniform parallelism of V-belt and pulley (sheaves). Use a straight-edge or machinist's square against both pulleys and adjust both pulleys until equally aligned.

3.7.3 DO NOT over or under tighten the V-belt. Severe damage can occur to the saw and engine crank shaft if the belt is over-tensioned. A decrease of power to the blade and poor performance will result if the belt is under-tensioned (loose on pulleys)

3.8 Troubleshooting

3.8.1 Blade Troubleshooting

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Blade slows or stops cutting, still remains on blade shaft	Blade too hard for the material being cut?	Consult Dealer for correct blade. Try cutting very soft material (sandstone, silica brick, cinder block) to "Redress" the blade.
	Engine torque diminished because of loose V-belt?	Tighten and/or replace V-Belt.
	Insufficient Engine power?	Check throttle setting. Check Engine horsepower.
	Improper direction of rotation?	Check that the blade is properly oriented and rotational arrow points in a "Down-Cutting" direction.
	Blade is slipping on the blade shaft?	Check that the blade & flange pin are properly installed on the blade shaft.
Blade does not cut straight and/or true.	Blade being used on misaligned saw?	Check blade shaft bearings and alignment integrity.
	Blade is excessively hard for the material being cut?	Check specification of the blade with the material being cut. Consult Dealer for information.
	Blade being used at improper RPM?	Ensure blade surface feet per minute speed (SFPM) is approximately 6,000.
	Blade improperly mounted on arbor shoulders and flanges?	Ensure blade is properly affixed on the blade shaft.
	Excessive force applied to blade while cutting?	**DO NOT** force the blade in the cut. Apply a slow and steady pace when sawing.
Blade discoloring, crackling and/or wearing excessively.	Blades too hard for the material being cut?	Consult Dealer for correct blade. Try cutting very soft material (sandstone, silica brick, cinder block) to "Redress" the blade.
	Blade improperly mounted on arbor shoulders and flanges?	Ensure blade is properly affixed on the blade shaft.
	Blade not receiving enough cooling air?	Ensure proper flow & volume of water is provided for wet cutting blades. Ensure sufficient cooling air is circulated about a dry cutting blade.
	Arbor hole out of round?	Ensure blade is properly affixed on the blade shaft.
	Incorrect blade chosen for material being cut?	Check specification of the blade with the material being cut. Consult Dealer for information.
	Excessive force applied to blade while	**DO NOT** force the blade in the cut. Apply a slow and steady pace when sawing.

3.8.2 Engine Troubleshooting

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Difficult to start, "fuel is available, but no SPARK at spark plug".	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
Difficult to start, "fuel is available, and SPARK is present at the spark plug".	ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap	Set correct spark gap
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel.
Difficult to start, "fuel is available, spark is present and compression is normal".	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
	Choke Open?	Close Choke.
	Suction/exhaust valve stuck or protruded?	Re-seat valves.
Difficult to start, "fuel is available, spark is present and compression is low".	Piston ring and/or cylinder worn?	Replace piston rings and or piston.
	Cylinder head and/or spark plug not tightened properly?	Torque cylinder head bolts and spark plug.
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.

MAINTENANCE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No fuel present at the carburetor.	Fuel not available in fuel tank?	Fill with correct type of fuel.
	Fuel filter clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.
"Weak in power" compression is proper and does not misfire.	Air cleaner not clean?	Clean or replace air cleaner.
	Improper level in carburetor?	Check float adjustment.
		Rebuild carburetor.
	Defective spark plug?	Clean or replace spark plug.
	Improper spark plug gap?	Set to proper gap.
"Weak in power" compression is proper but misfires.	Water in fuel system?	Flush fuel system and replace with correct type fuel.
	Ignition coil defective?	Replace ignition coil.
	Dirty spark plug?	Clean or replace spark plug.
Engine overheats.	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel.
	Spark plug heat value improper?	Replace with correct type of spark plug.
	Cooling fins dirty?	Clean cooling fins.
Rotational speed fluctuates.	Governor adjusted correctly?	Adjust governor.
	Governor spring defective or missing?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunction.	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Spiral spring loose?	Replace spiral spring.

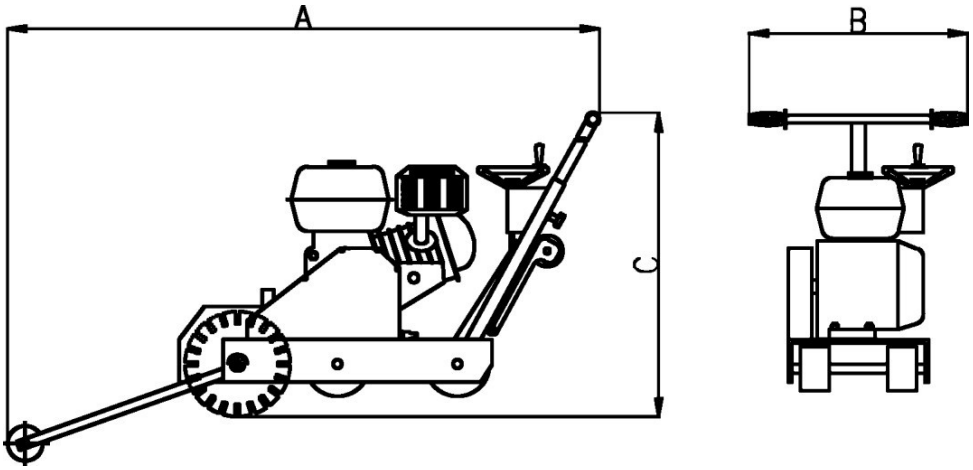
3.9 Transporting

1. Shutdown engine for transportation.
2. For transportation, tighten fuel tank cap securely to prevent fuel from spilling.
3. Use trolley wheel (a) for short distance transportation.

4. TECHNICAL DATA

Model	BRPCS110H
Engine type	Honda GX200
Power kw (hp)	4.8 (6.5)
Weight kg (lb)	50 (110)
Cutting Depth mm (in)	82.6 (3.25)
Blade Size mm (in)	254 (10”)
Standard Arbor Size mm (in)	15.88 (0.625)
Depth Adjustment	Handle Rotation

Working Size mm:



PFG10 A=1665 B=340 C=920

Sound Specification (According to 2000/14/EC)

Measured sound Power level	88 dB(A)
Guaranteed sound power level	110 dB(A)

Hand-Arm vibration Specification (According to ISO 5394, EN 1033 and EN500-4): 5.0m/s^2

BRAVE

20195 South Diamond Lake Road, Suite 100 • Rogers, MN 55374
Toll-Free: 800-350-8739 • Website: braveproducts.com • Email: sales@braveproducts.com

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 Compaction Equipment:

BRPTR60H	BRPFP130H	BRPRP220H	BRPCS110H
BRPTR68H	BRPFP140H	BRPPT110H	BRPCS210H
BRPFP120H	BRPRP210H	BRPPT210H	

	Consumer Warranty Period	Commercial Warranty Period
Bellow on Rammer		
	5 years from date of purchase by user	5 years from date of purchase by user
Gear box on Rammer or Plate Compactor		
	3 years from date of purchase by user	3 years from date of purchase by user
Other Equipment Parts on Rammer, Plate Compactor, Roller, Floor Saw, Power Trowel and Vibrating Screed		
	2 years from date of purchase by user	2 years from date of purchase by user
Vibratory Poker or Submersible Pump		
	1 year from date of purchase by user	1 year from date of purchase by user
Engines		
	The engine warranty is covered under the terms and conditions as outlined by the engine manufactures warranty contained herein and is the sole responsibility of the engine manufacturer. 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.	
Warranty Limitations		
	• Wear items: 30 day limited warranty. Includes, but not limited to, all clutches. • Any condition resulting from other than ordinary wear or any use for which the equipment was not intended • Any condition resulting from incorrect or inadequate maintenance or care. • Damage resulting from misuse, abuse, negligence, accidents or shipping.	

"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 warranty. Determining whether a part is to be replaced or repaired is the sole decision of Brave. Brave will not provide for 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 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 Go applications not approved by Brave in writing, corrosion caused by chemicals, use of replacement parts which do not conform to manufacture specifications, damage related to rodent and/or insect infestation and damage caused by vandalism. Additional exclusions: loss of running tim 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.

For products purchased on or after July 1, 2018

MAINTENANCE RECORD

PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN

BravePro green concrete saw has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of your saw. After reading through this manual thoroughly, you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service, be sure to see your dealer. For your convenience we have provided this space to record relevant data about your saw.

Invoice Number:		Type of Machine:	
Date Purchased:		Dealer Name:	
Serial Number:		Dealer Phone:	

REPLACEMENT PARTS USED					MAINTENANCE LOG	
PART NO.	DESCRIPTION	QTY	COST	DATE	DATE	OPERATION

EC DECLARATION OF CONFORMITY
CE-KONFORMITÄTSERKLÄUNG
DECLARACIÓN DE CONFORMIDAD DE LA CE
DÉCLARATION DE CONFORMITÉ C.E.

Brave Products
20195 South Diamond Lake Rd., Suite 100 Rogers, MN 55374

hereby certifies that the construction equipment specified hereunder / bescheinigt, da. das Bauger.t / certifica que la máquina de construcción / atteste que le matériel :

1. Category / Art / Categoría / Catégorie:
   Green Concrete Saw

2. Type / Typ / Tipo / Type:
   BRPCS110H

has been produced in accordance with the following standards:/in übereinstimmung mit folgenden Richtlinien hergestellt worden ist:/ha sido fabricado en conformidad con las siguientes normas: / a été produit conformément aux dispositions des directives européennes ci-après :

2000/14/EC outdoor
2006/42/EC
2004/108/EC/EN55012:2007
EN13862/2001

15.02.10 Hermann Josef Lensing
---------- Research and Development Manager
Date / Datum / Fecha / Date

BRAVE PRO

Contact Us

Corporate Physical Address
Brave
A brand of Great Northern Equipment Distributing, Inc.
20195 South Diamond Lake Road, Suite 100
Rogers, MN 55374

Phone
800.350.8739

Website
www.braveproducts.com

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