

BRAVEPRO

OPERATORS MANUAL



20" FLOOR SAW

BRPCS210H

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SAFETY INFORMATION

1.1 Safety Precautions

Before operating the machine, read both the manual and the engine manual carefully to become familiar with the location and proper use of all controls. Do not allow untrained or unauthorized personnel, especially children, to operate this machine. Use only the parts authorized by the factory 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 procedure which, if not avoided, will result in serious or mortal injury.



WARNING

WARNING indicates a danger or hazardous procedure which, if not avoided, could result in serious or mortal injury.



CAUTION

CAUTION indicates a danger or hazardous procedure which, if not avoided, could result in damage to machinery or moderate injury.

SAFETY INFORMATION

1.2 Operating Safety

WARNING:

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

1.2.1 GENERAL SAFETY

- DO NOT modify the machine without the prior consent of the manufacturer. Brave does not assume responsibility for any accident due to equipment modification.
- NEVER operate the machine in purpose for which it is not intended.
- NEVER allow anyone to operate the machine without proper training and under 18 years old. People operating the machine must be familiar with the risks and hazards associated with it.
- ALWAYS operate the machine with all safety devices and guards in place and in working order.
- DO NOT wear loosely fitting clothing that might get caught in the machine.
- DO NOT operate the machine in poorly ventilated spaces. There is a risk of carbon monoxide poisoning.
- ALWAYS wear eye protection, ear protection and steel-toed boots during work.
- DO NOT use the machine if you experience discomfort, cramp or pain and under the influence of drugs or alcohol.
- DO NOT use the machine near flammable material or in explosive atmosphere. The exhaust pipe can get very hot during operation. Sparks can be emitted from it, and these can ignite flammable material.
- ALWAYS check that all controls are functioning properly immediately after start-up. Do NOT operate the machine unless all controls operate correctly.
- NEVER operate the machine with the fuel cap loose or missing.
- NEVER touch the engine, exhaust system, muffler and cylinder. They are extremely hot during operation.
- DO NOT touch the V-belt and rotating parts during operation.
- Block the machine when leaving or operating on slopes.

SAFETY INFORMATION

1.2.2 Diamond Blade Safety

- ALWAYS use the appropriate diamond blade for cutting.
- ALWAYS check the diamond blade before using. The blade should exhibit no cracks, dings, or flaws in the steel centered core and/or rim. Center 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.

1.2.3 Transport 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 machine with the blade mounted.

SAFETY INFORMATION

1.2.4 Emergency

ALWAYS know the location of the nearest fire extinguisher and first aid kit. Know the location of the nearest telephone. Also know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.

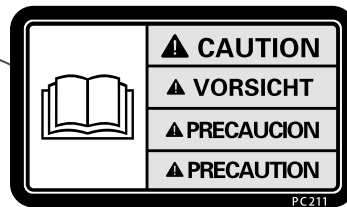
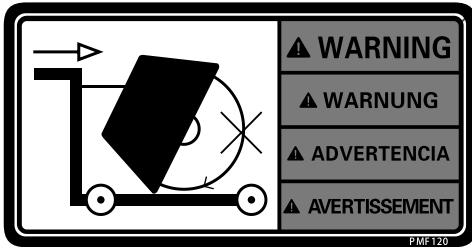
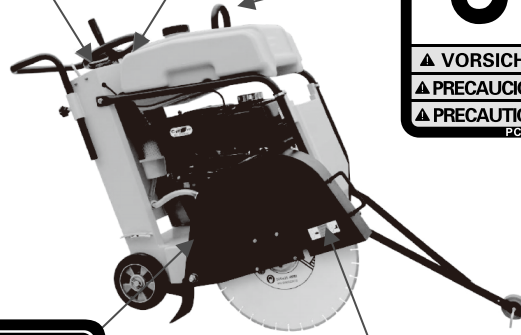
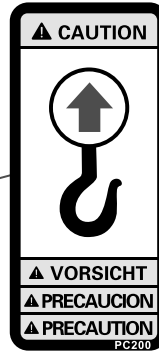
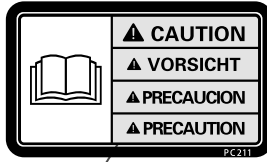
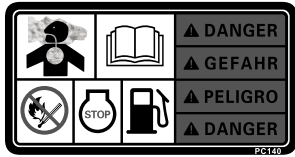
1.2.5 Maintenance Safety

- 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.

1.3 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.

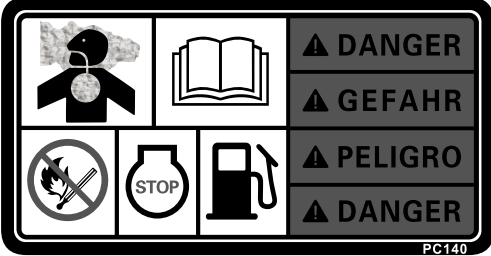
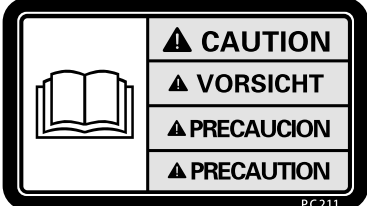



SAFETY INFORMATION



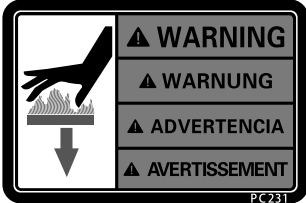


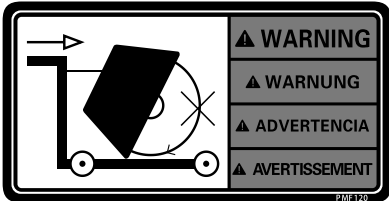


SAFETY INFORMATION

1.5 Safety and Operating Labels

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

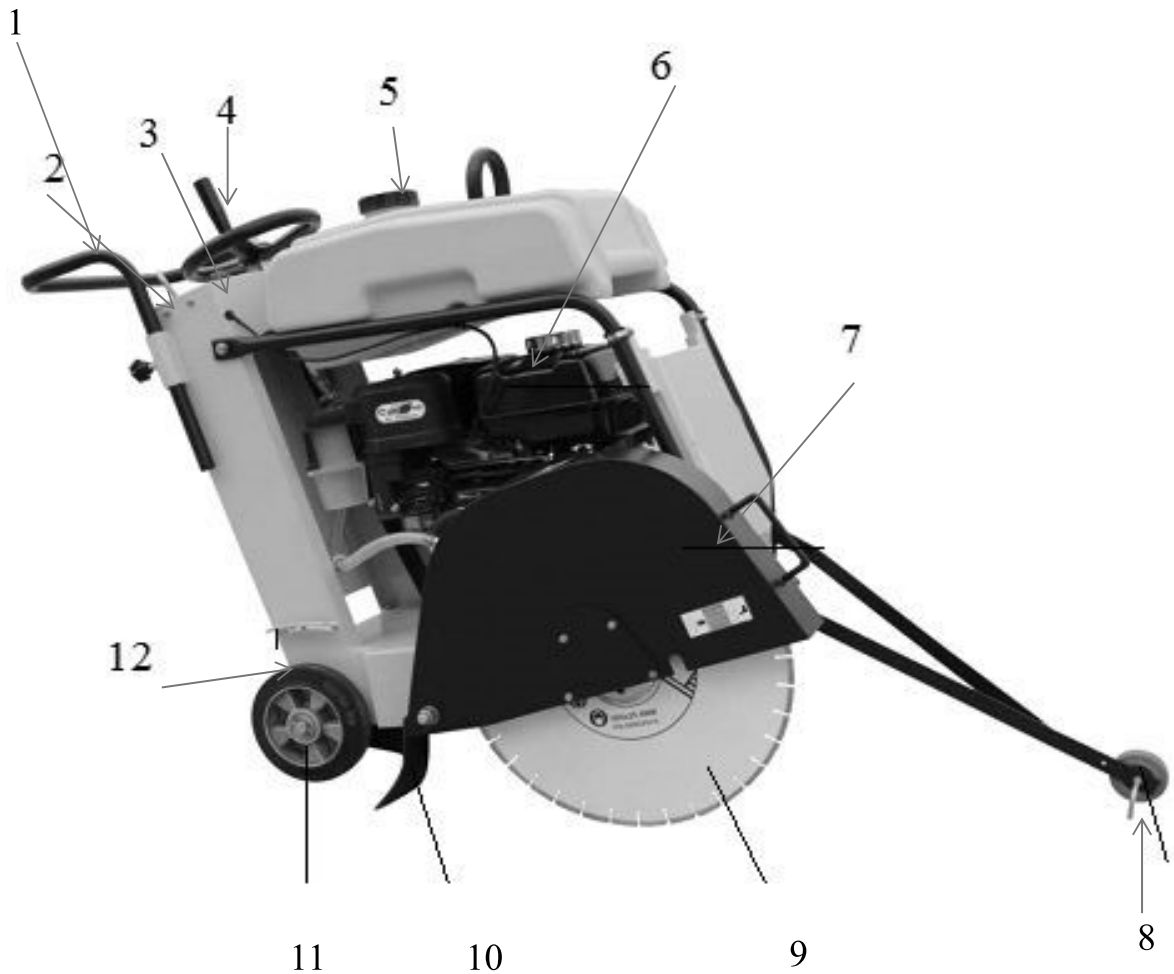
Label	Meaning
 <p>PC140</p>	<p>DANGER! Engines emit carbon monoxide; operate only in well-ventilated area. Read the Operation Manual for machine information. No sparks, flames, or burning objects near the machine. Shut off the engine before refueling. Use only clean, filtered unleaded gasoline.</p>
 <p>PC211</p>	<p>WARNING! Read and understand the supplied Operation Manual before operating the machine. Failure to do so increase the risk of injury to yourself or others.</p>
 <p>PC110</p>	<p>WARNING! Always wear hearing and eye protection when operating the machine.</p>
 <p>PC209</p>	<p>CAUTION! Lifting point.</p>
 <p>PC1200</p>	<p>WARNING! Fire hazard.</p>

SAFETY INFORMATION

Label	Meaning
	<p>WARNING! Hot surface!</p>
	<p>WARNING! Injury hazard.</p>
	<p>WARNING! Be care of your hand and foot when cutting.</p>
	<p>WARNING!</p>
	<p>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.</p>
	<p>WARNING! Exposure hazard.</p>

OPERATION

2.1 Controls



Ref.	Description	Ref.	Description
1	Handle for Operating	7	Blade Guard
2	Throttle Control	8	Pointer Wheel
3	On-off switch	9	Diamond Blade
4	Handle for Blade high Adjustment	10	Splash Guard
5	Water Tank Filling	11	Trolley wheel
6	Engine	12	Cutting depth indicator

OPERATION

2.2 Operating Principle

The following instructions were compiled to provide you information on how to obtain long and trouble free use of the machine. Periodic maintenance of the machine is essential. Read the manual carefully and thoroughly familiarize yourself with the machine and all its functions. Failure to do so may injure yourself or a bystander.

2.3 Delivery Checks

Immediately on taking delivery of your new machine 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 machine – has it been damaged during delivery?
- Check engine oil level.
- Check fuel level.

Recommended lubricants are detailed in the engine manual

2.4 Installing Blade

- Be certain that the spark plug is disconnected or saw is unplugged.
- Remove the blade shaft nut and take off outside blade shaft flange.
- Clean off any foreign particles on the clamping surfaces of flanges and on the mounting surface of the blade.
- Place the blade on the blade shaft, lining up the offset drive pin in the blade with the drive pin in the mounting collar (if the pin system is available on the machine). If your blade has a directional rotational arrow, position arrow for down cut (diamond tail trailing for down cut).
- Replace the outside blade shaft flange on the blade shaft. Drive pin on the inside collar must project through the drive hole in the blade and into the outside collar (if the pin system is available on the machine).
- Tighten the blade shaft nut securely against star washer and outside flange, using wrench supplied.
- Reconnect the spark plug or (with switch “off”) plug in the electric supply cord.
- The saw can cut on the right and left hand, please replace the blade as required.

2.5 Before Starting

Before starting the machine, check the following items:

OPERATION

- All handles are free from grease, oil and dirt.
- All control levers are in the neutral position.
- All bolted joints are tightened.
- Fuel level.
- Water tank level.
- Oil level in the engine.
- Air cleaner maintenance indicator.
- Check arbors and flanges are clean and undamaged.
- If operating in wet-cutting, check water jets for adequate flow.
- Align pointer with cutter blade.

NOTICE: The warranties are VOID if the machine is run without oil.

2.6 To Start

Before starting the machine, operator must know the location and function of all controls.

2.6.1 To Start - Gasoline Engine

1. Open the fuel tap by moving the fuel ON/OFF lever fully to the right.
2. If starting the engine from cold, set the choke ON by moving the choke lever fully to the left. If restarting a warm engine, the choke is usually not required. However, if the engine has cooled to a degree, partial choke may be required.
3. Turn the engine ON/OFF switch clockwise to "1" position.
4. 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 saw blade will begin to rotate as soon as the engine starts.
5. Taking a firm hold of the control handle with one hand, grasp the recoil starter handle with the other. Pull the recoil starter until engine resistance is felt, then let starter return.
6. Taking care not to pull the starter's rope fully out, pull the starter handle briskly.
7. Repeat until the engine fires.
8. Once the engine fires, gradually set the choke lever to the OFF position by moving it to the right.
9. If the engine fails to fire after several attempts, follow the trouble-shooting guide on pages 19-21.
10. To stop the engine, set the throttle to idle and turn the engine ON /OFF switch counterclockwise to the "0" position.

OPERATION

2.7 To Stop

1. Before stopping, let idle at speed for a few minutes.
2. Turn the fuel off
3. Close the fuel valve.

2.8 To Start Cutting

1. Start engine and let engine warm up. All cutting is done at full throttle.
2. Align blade and saw with cut. If wet cutting, open water valve and turn water safety switch on.
3. Lower blade into cut slowly.
4. Cut as fast as blade will allow. If blade climbs out of cut, reduce forward speed or depth of cut.
5. Use only enough side pressure on saw handles to follow cutting line.

2.9 Cutting

Lower the blade into concrete to required depth by turning the tilt crank counterclockwise. Ease the saw slowly forward. Slow forward pressure if the saw begins to stall.

Note: For deeper cuts (4 inches/102mm or more), several cuts should be made in incremental steps of 1-1/2 inch (38mm) to 2 inches (51mm) until the desired depth is reached.

Push the saw steadily forward using the front pointer as a guide. Exert enough forward pressure so that the engine/motor begins to labor but does not slow down. If the saw begins to stall, retard forward movement until full RPM is restored to the blade. If saw stalls, raise the blade out of the cut before restarting. Avoid excessive side pressure or twisting of the blade in the cut.

2.10 Belts & Pulleys

Never adjust the V-belts and pulleys when engine is running.

1. The best tension for a v-belt drive is the lowest tension at which the belts will not slip under full load.
2. Take up tension until the belts are snug in the grooves. Run the drive for about five (5) minutes to “seat” the belts. Then impose the peak load. If the belts slip, tighten them until they no longer slip at peak load. Most new belts will need additional tensioning after seating.
3. Remember, too much tension shortens belt and bearing life.

OPERATION

4. Check the belt tension frequently during the first day of operation. Check the belt tension periodically thereafter and make any necessary adjustments.
5. The two most common causes of sheave misalignment are:
 - a) The engine drive shaft and the blade shaft are not parallel.
 - b) The pulleys are not located properly on the shafts.
6. To check alignment, use a steel straight edge. See Figure 1.

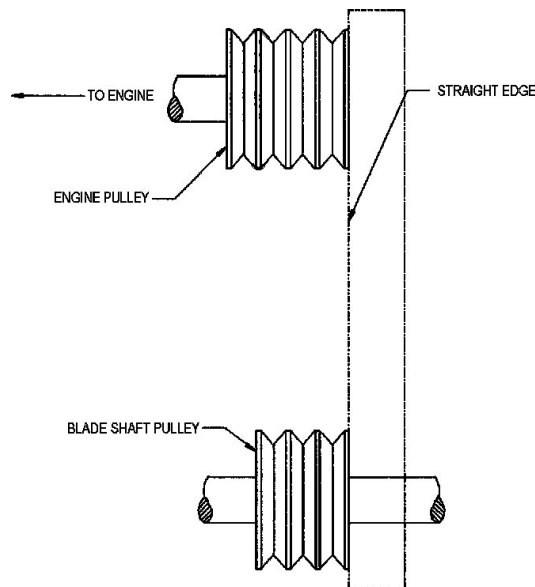


Figure 1

7. Line up the straight edge along the outside face of both pulleys shown in the drawing. All pulleys have (2) set screws in the bottom of their grooves. Set screws require thread locking lock title.
8. Misalignment will show up as a gap between the pulley face and straight edge. Make sure there is clearance between arbor pulley and saw base on both sides.

2.11 Dry Cutting

- Never operate any saw without safety guards in place.
- Do not exceed maximum operating speed established for blade diameter.
- Do not force blade into material: allow blade to cut at its own speed.

OPERATION

- Do not make long continuous cuts. Never dry cut for more than 30 seconds at a time. Allow blade to cool.
- Do not cut or grind with side of blade or cut a curve or radius. Do not cut dry with blades recommended for wet cutting.
- Do not operate saw with blade diameter larger than machine's capacity.

2.12 Lifting

1. NEVER tow the machine.
2. ONLY use steel ropes or chains for lifting.
3. Make sure that the ropes or chains must have enough lifting capacity to hold the machine (see the information on the machine plate for weight).
4. ONLY lift the machine by the hook on the frame.
5. DO NOT stand or walk under a lifted machine.

MAINTENANCE

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.

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

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 engine manual 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.

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 Transporting




1. Before transporting the machine, ALWAYS turn off the engine and pull out the key from the machine.
2. Make sure lifting device has enough capacity to hold machine (see identification plate on machine for weight).
3. Use lifting point when lifting the machine.
4. Trolley wheel as optional is used for short distance transportation.

MAINTENANCE


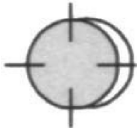

3.6 Troubleshooting

SYMPTOM	POSSIBLE CAUSES	SOLUTION
Uneven segment wear 	(Wet cutting) Insufficient water (Usually on one side of blade) Equipment defects also can cause the segments to wear unevenly. Saw head is misaligned.	Flush water system. Check flow to both sides of blade. Replace bad bearings, worn arbor shaft or misalignment to spindle. Check alignment for squareness, both vertically and horizontally, of the saw blade.
Segment cracks 	Blade is too hard for material being cut.	Use a blade with a softer bond/matrix.
Segment loss 	Blade overheats because of lack of coolant (water or air). Core is worn from undercutting. Defective collars/flanges set blade out of alignment. Blade is too hard for material being cut. Blade is cutting out of round, causing a pounding motion. Improper blade tension.	(Wet Cutting) Check water lines. Make sure flow is adequate on both sides of blade and there are no blockages. Use sufficient water to flush out the cut. (Dry Cutting) Run blade free of cut periodically to air cool. Clean collars/flanges or replace if they are under recommended diameter. Use proper blade specification for material being cut. Replace worn bearings; realign blade shaft or replace worn blade mounting arbor. When ordering blades match shaft speed of saw. Check spindle speed to ensure blade is running at correct RPM. Avoid twisting or turning blade in the cut.

MAINTENANCE

SYMPTOM	POSSIBLE CAUSES	SOLUTION
<p>Cracks in core</p> 	<p>Blade flutters in cut as a result of losing blade tension. Blade specification is too hard for the material being cut.</p>	<p>Tighten the blade shaft nut. Make sure blade is running at proper speed and that drive pin is functioning properly. Use a softer bond/matrix to eliminate stress.</p>
<p>Loss of tension</p> 	<p>Core overheating. Core overheating as a result of blade spinning on arbor. Core overheating from rubbing the material being cut. Unequal pressure at blade clamping collars/flanges. Blade is too hard for the material being cut.</p>	<p>Make certain blade RPM is correct. Check water flow, distribution and lines. Tighten the blade shaft nut. Make certain the drive pin is functioning. Properly align the saw to square cut. Collars/flanges must be identical in diameter and the recommended size. Use a softer bond/matrix to reduce stress.</p>
<p>Blade wobbles</p> 	<p>Blade is on a damaged or worn saw. Worn collar. Blade runs at an incorrect speed. Collar/flange diameters are not identical. Blade is bent as a result of dropping or twisting.</p>	<p>Check for bad bearings, bent shaft, or worn mounting arbor. Check collar/flange to make sure they are clean, flat and of correct diameter. Set engine at proper RPM. Use proper size blade collars/flanges. DO NOT use bent blade. Contact blade manufacturer.</p>

MAINTENANCE

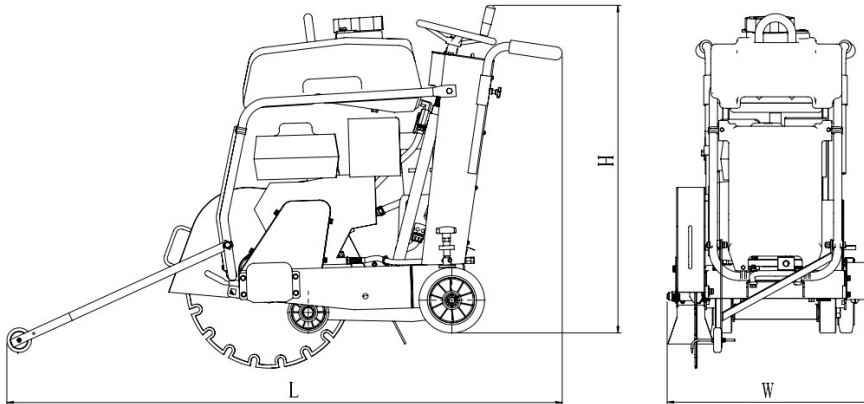
SYMPTOM	POSSIBLE CAUSES	SOLUTION
<p>Blade does not cut</p> 	<p>Blade is too hard for material being cut. Blade has become dull. Blade does not cut material it was specified for.</p>	<p>Select proper blade for material being cut. Sharpen by cutting on softer abrasive material to expose diamonds. If continually sharpening, the blade is too hard for the material being cut. Break-in on the material to be cut. If it does not dress itself, sharpen as you would a dull blade.</p>
<p>Undercutting the core</p>	<p>Abrasive wearing of the core faster than the segments.</p>	<p>Use water to flush out lines generated during cutting. Use wear-resistant cores.</p>
<p>Arbor hole out of round</p> 	<p>Collars/flanges are not properly tightened, permitting blade to rotate or vibrate on the shaft. Collars/flanges are worn or dirty. Blade is not properly mounted.</p>	<p>Make certain the blade is mounted on the proper shaft diameter. Tighten the shaft nut with a wrench to make certain that the blade is secure. Clean collars/flanges, make sure they are not worn. Tighten arbor nut. Make sure the pin hole slides over drive pin.</p>
<p>Blade worn out of round</p> 	<p>Shaft bearing are worn. Surges occur because engine is not properly tuned. Blade arbor hole is damaged from incorrectly mounting the blade. Bond/matrix is too hard for material. Blade is slipping, wearing one half of blade more than other.</p>	<p>Install new blade shaft bearings or blade shaft, as required. Tune engine according to manufacturer's manual. DO NOT use if core is worn or arbor hole damaged. Contact blade manufacturer. Replace worn shaft or mounting arbor bushing. Make certain that drive pin is functioning. Tighten spindle nut.</p>

TECHNICAL DATA

4. TECHNICAL DATA

Model	BRPCS210H
Engine type	Honda GX390
Power kw(hp)	9.6 (13.0)
Weight kg(lb)	125 (376)
Max cutting depth cm(in)	18.4(7.2)
Blade size cm(in)	30-50(12-20)
Depth adjustment	Handle rotation
Driving	Manual push
Water tank capacity L	31

Dimension:



Dimension (MM)		
Ref.		BRPCS210H
L		1696
H		1001
W		632

Sound Specification (According to 2000/14/EC)

Guaranteed sound power level	108 dB(A)
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Hand-Arm vibration Specification (According to ISO 5394, EN 1033 and EN500-4): 5.0m/s²



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 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
 BRPTR68H
 BRPFP120H

BRPFP130H
 BRPFP140H
 BRPRP210H

BRPRP220H
 BRPPT110H
 BRPPT210H

BRPCS110H
 BRPCS210H

	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 Sced		
	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		
	<ul style="list-style-type: none"> • 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 God applications not approved by Brave in writing, corrosion caused by chemicals, use of replacement parts which do not conform to manufacturer 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.

For products purchased on or after July 1, 2018

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

Manufacturer: Brave

Address: 20195 South Diamond Lake Road, Suite 100 Rogers, MN 55374

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

**BRPCS210H
series**

has been produced and tested 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 conforme aux dispositions des directives européennes ci-après :

**2000/14/EC
2006/42/EC
89/336/EC
EN13862**

20.03.2014

Date / Datum / Fecha / Date



Hermann Josef Lensing
Research and Development Manager

BRAVEPRO

Contact Us

Corporate Physical Address

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