MODEL BRP4030HAR



MBRP4030HARA.1

Any Questions, Comments, Problems, or Parts Orders Call BRAVE Product Support 1-800-350-8739

- * IMPORTANT SAFETY INSTRUCTIONS
- * SAVE THESE INSTRUCTIONS

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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 and Brave Pro Pressure Washer Models:

BR1517ECO	BRP2530HCA	BRP1520ECA
BR2528HCO	BRP3033HCA	BRP4030HCA
BR2530HCO	BRP3540HCA	BRP4030HAR

	Consumer Warranty Period	Commercial Warranty Period			
Weldments					
	2 years from date of purchase by user	2 year from date of purchase by user			
Electric Motor,	Burner, Pumps				
	2 years from date of purchase by user	1 year 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 c workmanship for a period of 30 days from the date of purchase by user. Normal wear items covered unde this warranty are limited to: filters, gaskets, o-rings, oil seals, springs, nozzles, lance, bushings, grease zerks switches, hoses, tires. Routine maintenance items such as lubricants, clutch adjustments, tune ups are no covered under warranty.				
Engines	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.				

[&]quot;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'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, 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 February 1, 2015



Attention: Read through the complete manual prior to the initial use of your pressure washer.

Using the Operator's manual

The operating manual is an important part of your pressure washer and should be read thoroughly before initial use, and referred to often to make sure adequate safety and service concerns are being addressed. Reading the owner's manual thoroughly will help avoid any personal injury or damage to your machine. The information in this manual will offer you the most effective tools for cleaning as well as the safest. By knowing how best to operate this machine you will be better positioned to show others who may also operate the unit.

This manual contains information for the complete range of pressure washers, and is placed in order starting from the safety requirements to the operating functions of your machine. You can refer back to the manual at any time to help troubleshoot any specific operating functions, so store it with the machine at all times.

Notice

Actual pressure released at the point of discharge may very by machine due to varying factors including: Volume of water being fed to the machine by the water source, the inclusion of a Chemical injector in the line, or variations in Engine performance

Record Identification Numbers

Pressure Washer

If you need to contact an Authorized Dealer or Customer Service line for information on servicing, always provide the product model and identification numbers.

You will need to locate the model and serial number for the machine and record the information in the places provided below.

	•	•		
Date of Purchase:				
Dealer Name:				

Product Identification Numbers

Model Number:

Dealer Phone:

Serial Number:

Engine

Model Number:

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

WARNING – When using this product basic precautions should always be followed, including the following:

- 1. Read all the instructions before using the product.
- 2. To reduce the risk of injury, close supervision is necessary when a product is used near children.
- 3. Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- 4. Stay alert watch what you are doing.
- 5. Do not operate the product when fatigued or under the influence of alcohol or drugs.
- 6. Keep operating area clear of all persons
- 7. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- 8. Follow the maintenance instructions specified in the manual.
- 9. To order replacement safety labels, call Brave Product Support at 1-800-350-8739.

Understanding the Machine Safety Labels The machine safety label shown below is placed on your machine to draw attention to potential safety hazards.





START-UP INSTRUCTIONS

- 1. Attach garden hose.
- 2. Attach pressure hose.
- 3. Attach gun and lance.
- 4. Turn water supply ON.5. Squeeze trigger to purge air from pump.
- Insert nozzle.
 Start engine.

SHUT-DOWN INSTRUCTIONS

- 1. Turn engine OFF.
- 2. Turn water supply OFF.
- 3. Squeeze trigger to relieve system pressure.
- 4. Remove garden hose.
- 5. Remove pressure hose.
- Turn fuel valve OFF (if equipped).



Location	Part #	Description
1	789002	Warning
1	781027	Instruction

WARNING:

ALWAYS make sure safety labels are in place and in good condition. If a safety label is missing or not legible, order new labels because unsafe operation can result. Call 1-800-350-8739 to order new safety labels.

Save these Instructions

Safety Rules



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.

The safety alert symbol (**A** is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards.

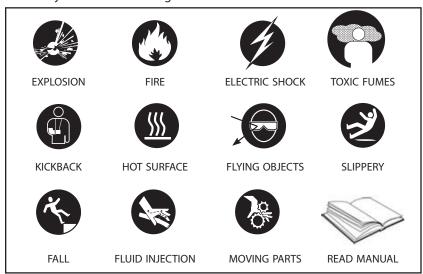
DANGER indicates a hazard which, if not avoided, will result in death or serious injury.

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

CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

NOTICE indicates a situation that could result in equipment damage. Follow safety messages to avoid or reduce the risk of injury or death.

Hazard Symbols and Meanings







Risk of electrocution.

Contact with power source can cause electric shock or burn.

NEVER spray near power source.



WARNING



Fuel and its vapors are extremely flammable and explosive.



Fire or explosion can cause severe burns or death.

When Adding or Draining Fuel

- Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- DO NOT light a cigarette or smoke.

When Starting Equipment

- Ensure spark plug, muffler, fuel cap, and air cleaner are in place.
- DO NOT crank engine with spark plug removed.

When Operating Equipment

- DO NOT tip engine or equipment at angle which causes fuel to spill.
- DO NOT spray flammable liquids.

When Transporting or Repairing Equipment

- Transport/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- Disconnect spark plug wire.

When Storing Fuel or Equipment with Fuel in Tank

• Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.





Running engine gives off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide can cause headache, fatigue, dizziness, vomiting, confusion, seizures, nausea, fainting or death.

Some chemicals or detergents may be harmful if inhaled or ingested, causing severe nausea, fainting, or poisoning.

- Operate pressure washer ONLY outdoors.
- Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings.
- DO NOT start or run engine indoors or in an enclosed area, even if windows and doors are open.
- Use a respirator or mask whenever there is a chance that vapors may be inhaled.
- Read all instructions with mask so you are certain the mask will provide the necessary protection against inhaling harmful vapors.



WARNING



Starter cord kickback (rapid retraction) can result in bodily injury. Kickback will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises, or sprains could result.

- NEVER pull starter cord without first relieving spray gun pressure.
- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- After each starting attempt, where engine fails to run, always point spray gun in safe direction and squeeze spray gun trigger to release high pressure.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.





Use of pressure washer can create puddles and slippery surfaces.



Kickback from spray gun can cause you to fall.

- Operate pressure washer from a stable surface.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.
- Be extremely careful if you must use the pressure washer from a ladder, scaffolding, or any other similar location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.



WARNING



Contact with muffler area can result in serious burns.



Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead.



WARNING



Risk of eye injury.

Spray can splash back or propel objects.

- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.



♠ WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- DO NOT allow CHILDREN to operate pressure washer.
- NEVER repair high pressure hose. Replace it.
- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.
- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.
- NEVER aim spray gun at people, animals, or plants.
- DO NOT secure spray gun in open position.
- DO NOT leave spray gun unattended while machine is running.
- NEVER use a spray gun which does not have a trigger lock or trigger quard in place and in working order.
- Always be certain spray gun, nozzles and accessories are correctly attached.



▲ WARNING



Starter and other rotating parts can entangle hands, hair, clothing, or accessories.

- NEVER operate pressure washer without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that may be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.





Unintentional sparking can result in fire or electric shock.

When Adjusting or Making Repairs to Your Pressure Washer

• Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

When Testing for Engine Spark

- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

NOTICE

High pressure spray may damage fragile items including glass.

- DO NOT point spray gun at glass when using red 0° spray tip.
- NEVER aim spray gun at plants.

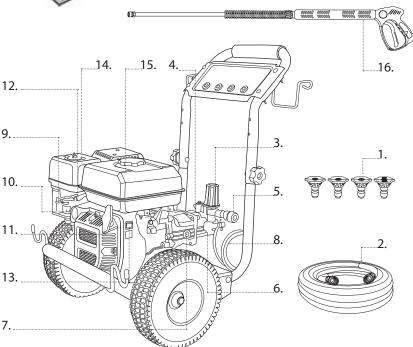
NOTICE

Improper treatment of pressure washer can damage it and shorten its life.

- If you have questions about intended use, ask dealer or contact nearest authorized dealer.
- NEVER operate units with broken or missing parts, or without protective housing or covers.
- DO NOT by-pass any safety device on this machine.
- DO NOT tamper with governed speed.
- DO NOT operate pressure washer above rated pressure.
- DO NOT modify pressure washer in any way.
- Before starting pressure washer in cold weather, check all parts of the equipment to be sure ice has not formed there.
- NEVER move machine by pulling on hoses. Use handle provided on unit.
- Check fuel system for leaks or signs of deterioration, such as chafed or spongy hose, loose or missing clamps, or damaged tank or cap. Correct all defects before operating pressure washer.

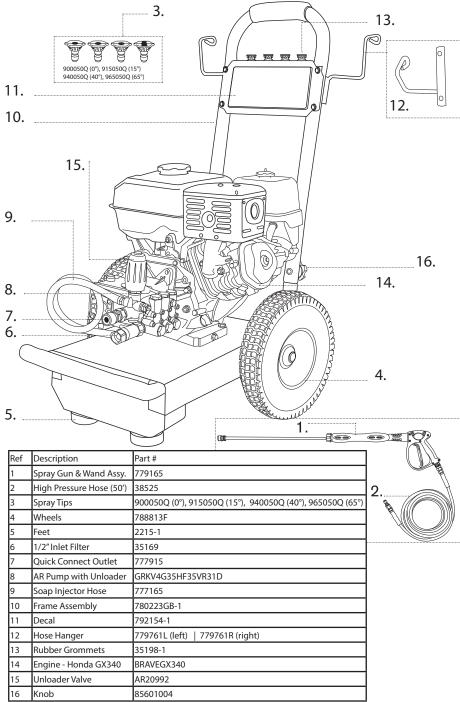


Read this operator's manual and safety rules before operating your pressure washer.

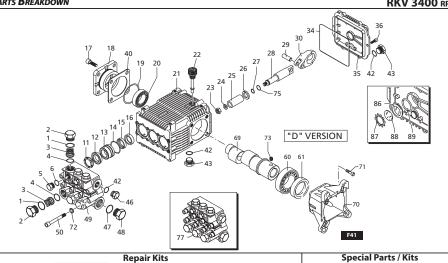


- 1. Spray Tips Detergent, 0°, 15°, and 40°: for various high pressure cleaning applications.
- 2. High Pressure Hose Connect one end to water pump and the other end to spray gun.
- 3. Pressure Control Knob Varies pressure of high pressure spray.
- 4. Water Inlet Connection for garden hose.
- 5. High Pressure Outlet Connection for high pressure hose.
- 6. Pump Develops high pressure.
- 7. Oil Level Indicator Level should be at halfway
- 8. Detergent Siphoning Tube/Filter Use to siphon pressure washer safe detergent into the low pressure stream.
- 9. Choke Lever Prepares a cold engine for starting.
- 10. Fuel Valve Used to turn fuel supply on and off to engine.
- 11. Recoil Starter Used for starting the engine manually.
- 12. Throttle Lever Sets engine in starting mode for recoil starter.
- 13. Engine Switch Set switch to "On" for recoil starting. Set switch to "Off" to stop a running engine.
- 14. Air Filter Protects engine by filtering dust and debris out of intake air.
- 15. Fuel Tank Fill tank with regular unleaded fuel. Always leave room for fuel expansion.
- 16. Spray Gun Extension with Quick Connect Nozzles Controls the application of water onto cleaning surface with trigger device. Includes trigger lock. Allows you to switch between five different spray tips.

GAS WASHER COMPONENTS



PARTS BREAKDOWN RKV 3400 RPM













	Special Parts / Kits	
Code	Description	Qty
2809	Viton water seals ø18	1
42213	Kit for up to 180° F ø18 High Temp	1
42149	Single Cylinder Piston Kit ø18	1
	2809 42213	Code Description 2809 Viton water seals Ø18 42213 Kit for up to 180° F Ø18 High Temp

	KIT 1020	Kit 2546	L	(it 1857	_	Kit 1856	Kit 1829				
Pos	Code	Description	Qty	Pos	Code	Description	Qty		Lege	nd	
1	960160	O-Ring ø17.86x2.62	6	36	1343510	Bolt M6x14	(89 in/lbs) 6	ø 18	ø 18	ø 18	ø 18
٨	960090	Valve cap - Brass (47	8in/lbs) ○ ● 6	14	1380120	Shim 0.10 mm	1-3	For O	For •	For •	For 🗵
	960850	Valve cap - SS (478in/lbs)		140	1380130	Shim 0.20 mm	1-3	RKV3.5G25	RKV4G30A	RKA4.5G32	RKV5.5G40H
- 1	1380740		478in/lbs)□ 6	1 411	1380530	Shim 0.25 mm	1-3	RKV3.5G30	RKV4G30	RKV4.5G40H	
- 1	960090T	Valve cap - 1/4"threaded-Brass	(478 in/lbs) 1		1382810	Shim 0.05 mm	1-3	RKV3.5G37	RKV4G36		
	960850T	Valve cap - 1/4"threaded - SS	(478 in/lbs) 1	42	740290	O-Ring Ø14x1.78	3	RKV4037	RKV4G37		
3	889052	Complete valve	6	43	1980740	Plug 3/8" G - Brass	2	For ■	For ¤	For ★	For 🗆
4	880830	O-Ring ø15.54x2.62	6	46	1980740	Plug 3/8" G - Brass	○●■ 1	RKV4G32	RKV3.5G35H	RKV4G35H	RKV3.5G30H
ζ	880581	Plug 1/4" G - Brass	○●■ 2		1981180	Plug 3/8" G - NP	п★◆⊠ 1		RKV3.5G40H	RKV4G40H	
J	1380690	Plug 1/4"G - NP	п★◆⊠ 2	47	180101	O-Ring ø17.5x2	1				
6	820510	O-Ring ø10.82x1.78	2	48	820361	Plug 1/2" G - Brass	○●■ 1				
11	960110	Support ring	3		960870	Plug 1/2"G - NP	п★◆⊠ 1				
12	880320	High pressure packing (Re		49	1381071	Pump head - Brass	○●■ 1				
12	1382740	High pressure packing (Bro			1381070	Pump head - NP	п★◆⊠ 1				
13	1380090	Piston guide	3	50	820150	Head bolt M8x70	(217 in/lbs) 8				
14	961240	O-Ring ø31.47x1.78	3	60	1380320	Bearing	1				
15	880330	Gasket	3	61	621170	Oil seal	1				
16	1383130	Oil seal	3	62	1380220	O-Ring ø72.75x1.78	1				
17	850370	Bolt M8x16	(217in/lbs) 8	11	2280140	Hollow shaft ø1	Oπ 1				
18	1380050	Closed bearing support	1	1 69	2280130	Hollow shaft ø1	• ≡ ∗ 1				
19	640030	O-Ring ø59.99x2.62	2	1 ()7	2280590	Hollow shaft ø1	♦ 1				
20	2280240	Bearing	1	1 **	2280600	Hollow shaft ø1	⊠ 1				
21	1382770	Pump housing	1	70	2281510	Gas engine flange	1				
22	880130	Vented oil cap	1	71	180030	Bolt M8x20	(216 in/lbs) 4				
23	962010	Nut M8	(106 in/lbs) 3	72	1381850	Washer	8				
24	962000	Washer Ø8.1	3	73	820440	Set screw M6x6	1				
25	1380940	Ceramic piston	3	75	1080401	Back-up ring	3				
26	1380950	Slinger	3	77	2289208	Complete pump head	○• 1				
27	600180	O-Ring ø7.66x1.78	3	177	2289209	Complete pump head	■ 1				
28	1380920	Guiding piston	3	111	2289221	Complete pump head	¤★◆⊠ 1				
29	1380060	Piston pin	3	86	1260250	Oil sight glass	1				
30	1383020	Con rod - Bronze	3	87	1260430	Snap ring	1	l			
	1383050	Con rod - Aluminum	3	88	1780690	Contrast disc	1	l			
34	1780510	O-Ring	1	89	1140450	O-Ring ø20.24x2.62	1	l			
35	1789010	Complete cover	1	l				l			
					AR64516	Oil	1	l			
		A D 1	North Ame	l vica l		city - 15 oz	info@arno	l thamarica c	2 122		

A.R. North America, Inc. • www.arnorthamerica.com • info@arnorthamerica.com

BRP4030HAR					
FLOW OUTPUT					
PSI (bar)	3000 (207)				
GPM (I/min)	4.25 (16.09) Max				
Water Temp	140° F (60°C)				
	ENGINE				
Engine	Honda GX 340				
Horsepower	10.7 Net				
DIMENSIONS/COM- PONENTS					
Length	34"				
Width	21"				
Height	38"				
Pump Model	AR GRKV4G35HV-F35				
Pump Oil Capacity	15 oz				
SUPPLIES REQ	SUPPLIES REQUIRED (not included)				
Engine Oil	Refer to Engine Owner's Manual				
Pump Oil	(Shipped with Oil, but refills required SAE 30 Non-Deter- gent Oil				

Your pressure washer requires some assembly and is ready for use after it has been properly serviced with the recommended oil and fuel.

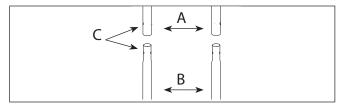
If you have any problems with the assembly of your pressure washer, please call the pressure washer help line. If calling for assistance, please have the model and serial number from the data tag available.

Unpack the Pressure Washer

- 1. Remove the parts bag, accessories, and inserts included with pressure washer.
- 2. Open box completely by cutting each corner from top to bottom.
- 3. Ensure you have all included items prior to assembly.

Attach Handle

1. Place handle (A) onto handle supports (B) connected to main unit. Make sure holes (C) in handle align with holes on handle supports.



NOTE: It may be necessary to move the handle supports from side to side in order to align the handle so it will slide over the handle supports.

2. Insert carriage bolts through holes from outside of unit and attach a plastic knob from inside of unit. Tighten by hand.



3. Insert multi-colored quick connect spray tips and other supplied accessories in spaces provided on handle.



Any Questions, Comments, Problems, or Parts Orders Call BRAVE Product Support 1-800-350-8739

Follow the Checklist Below Prior to Using the Machine Each Time

- 1. Check to ensure the engine oil is at the proper level. Use SAE 10W30 Oil
- 2. Check the 2 handle knobs to ensure they are tight and will not vibrate loose.
- 3. Add fuel to the gas tank.
- 4. Connect and tighten the garden hose to the GHA (garden hose inlet) connection.
- ** Water must be turned on prior to starting the washer, pull the spray trigger to ensure water is moving the through the lines and out the nozzle without any leaks before starting the unit.**
- 5. Review the safety guidelines in the manual prior to starting the unit.

If you have any issues operating the pressure washer, call the customer service line.



WARNING



Always check the level of the engine oil prior to starting the washer.

• Failure to do so could cause the engine to seize if the oil is low or empty.

Connect Hose and Water Supply to Pump Before Starting



WARNING



DO NOT start your pressure washer without the water supply turned on.

• Failure to do so will result in damaging the pump from overheating and void the warranty.

How to Start Your Pressure Washer

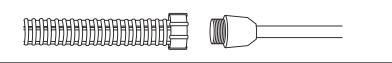
To start your pressure washer for the first time, follow these instructions step-by-step. This starting information also applies if you have let the pressure washer sit idle for at least a day.

- 1. Place pressure washer near an outside water source capable of supplying water at a flow rate greater than 3.8 gallons per minute and no less than 20 PSI at pressure washer end of garden hose. DO NOT siphon supply water.
- 2. Make sure unit is in a level position.
- 3. Connect garden hose to water inlet on pressure washer pump.

NOTICE

DO NOT run the pump without the water supply connected and turned on.

- Damage to equipment resulting from failure to follow this instruction will void warranty.
- 4. Attach wand extension to spray gun. Tighten by hand.

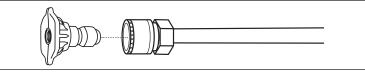


Choose desired spray tip, pull back nozzle extension collar, insert spray tip and release collar. Tug on spray tip to make sure it is securely in place. See Spray Tips.

Select Nozzle for Spray Gun

Your pressure washer is equipped with four high-pressure nozzles and one low-pressure nozzle. Generally, the wider the spray angle of the nozzle, the lower the spray impact produced. Select the appropriate nozzle for the job based on the following table:

Color of Nozzle:	Spray Angle	Used For:		
Red	0	Highest Impact		
Yellow	15	Tough Stains/Stripping		
Green	25	General		
White	40	Light Cleaning		
Black-Low pressure	ck-Low pressure 65 Chemicals			
NOTE: You must use the low pressure black nozzle for spraying chemicals.				



6. Uncoil high pressure hose and attach quick connect end of hose to base of spray gun. Pull down on collar of quick connect, slide onto spray gun and let go of collar. Tug on hose to be sure of tight connection.



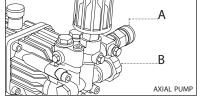


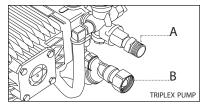
WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- Always be certain spray gun, nozzles and accessories are correctly attached.
- 7. Similarly, attach other end of high pressure hose to high pressure outlet (A) on pump. Pull down on collar of quick connect, slide onto pump and let go of collar. Pull on hose to be sure of tight connection.





Pump Uses 30W Non-Detergent Mineral Oil

- Turn Water Supply on, point gun in a safe direction and squeeze the trigger to purge the pump of air and debris. Do this for at least 30 seconds.
- 9. Take a look at all connections to make sure there are no leaks or loose connections.

IMPORTANT: DO NOT siphon standing water for the water supply. Use ONLY cold water (less than 100°F/38°C).

- 10. Connect the garden hose to the water inlet. Tighten by hand.
- 11. To start the machine, locate the engine switch on the side of the engine, and switch it to the ON position. (see component chart to locate switch) Check to ensure fuel valve is in the ON position and if starting cold apply the choke.
- 12. Pull recoil cord slowly until resistance is felt and then pull rapidly to avoid kickback. Make sure to position yourself in a balanced position. DO NOT place hand on engine muffler for balance, this will result in severe burn.





Running engine gives off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide can cause headache, fatique, dizziness, vomiting, confusion, seizures, nausea, fainting or death.

- Operate pressure washer ONLY outdoors.
- Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings.
- DO NOT start or run engine indoors or in an enclosed area, even if windows and doors are open.

IMPORTANT: Before starting the pressure washer, be sure you are wearing adequate safety goggles.



WARNING



Risk of eye injury.

Spray can splash back or propel objects.

- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.





Starter cord kickback (rapid retraction) can result in bodily injury. Kickback will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises, or sprains could result.

- NEVER pull starter cord without first relieving spray gun pressure.
- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- After each starting attempt, where engine fails to run, always point spray gun in safe direction and squeeze spray gun trigger to release high pressure.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.



WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- DO NOT allow CHILDREN to operate pressure washer.
- NEVER repair high pressure hose. Replace it.
- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.
- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.
- NEVER aim spray gun at people, animals, or plants.
- DO NOT secure spray gun in open position.
- DO NOT leave spray gun unattended while machine is running.
- NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- ALWAYS be certain spray gun, nozzles and accessories are correctly attached.

SHUTTING DOWN YOUR WASHER



WARNING



Contact with muffler area can result in serious burns.



Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead.

How to Shut Down Your Pressure Washer

- 1. Release spray gun trigger and let engine idle down.
- 2. Turn the engine switch to the OFF position.
- 3. ALWAYS point spray gun in a safe direction, squeeze spray gun trigger to release retained high water pressure.

IMPORTANT: Spray gun traps high water pressure, even when engine is stopped and water is disconnected. Couplings will not release if under pressure.



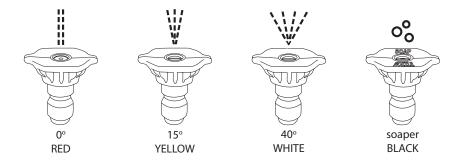
WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

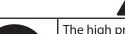
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- ALWAYS point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.

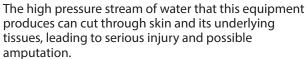


How to Use Spray Tips

The quick-connect on the nozzle extension allows you to switch between four different quick connect spray tips. Spray tips can be changed while pressure washer is running once spray gun trigger safety lock is engaged. The spray tips vary the spray pattern as shown above.

WARNING





- NEVER exchange spray tips without the trigger safety lock engaged on the spray gun.
- DO NOT twist spray tips while spraying.

Follow these instructions to change spray tips:

- 1. Pull back collar on quick–connect and pull current spray tip off. Store spray tips in holder provided on the handle. Storing nozzles in the designated holder will help prevent debris clogging the tip.
- 2. Select desired spray tip:
 - For gentle rinse, select white 40° spray tip.
 - To scour surface, select yellow 15° or red 0° spray tip.
 - To apply detergent, select black spray tip.
- 3. Pull back on collar, insert new spray tip and release collar. Tug on spray tip to make sure it is securely in place.

Usage Tips

- For most effective cleaning, keep spray tip from 8 to 24 inches away from cleaning surface.
- If you get spray tip too close, especially using a high pressure spray tip, you may damage surface being cleaned.

To apply detergent, follow these steps:

- 1. Review use of spray tips.
- 2. Prepare detergent solution as required by job.
- 3. Place small filter end of detergent siphoning tube into detergent container.

NOTE: Make sure the filter is fully submerged in detergent while applying detergent.

THIS WASHER WILL ONLY DRAW SOAP WITH THE BLACK SOAPER NOZZLE, WHITE, RED, AND YELLOW NOZZLE WILL NOT DRAW SOAP.

- 4. Make sure black spray tip is installed.
- 5. Make sure garden hose is connected to water inlet. Check that high pressure hose is connected to spray gun and pump. Turn on water.

NOTICE

You must attach all hoses before you start the engine.

- Starting the engine without all the hoses connected and without the water turned ON will damage the pump.
- Damage to equipment resulting from failure to follow this instruction will void warranty.
- 6. Start engine following instructions Starting Your Washer.
- 7. Apply detergent to surface, using long, even, overlapping strokes.
- 8. Allow detergent to "soak in" for 5 minutes before washing and rinsing. Reapply as needed to prevent surface from drying. DO NOT allow detergent to dry on.

IMPORTANT: You must flush the detergent siphoning system after each use by placing the filter into a bucket of clean water, then run the pressure washer in low pressure for 1-2 minutes.



Chemicals can cause bodily injury and/or property damage.

- NEVER use caustic liquid with pressure washer.
- Use ONLY pressure washer safe detergent/soaps. Follow all manufacturers instructions

Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, or have checked all the possible cause listed and you are still experiencing the problem, see your authorized dealer.

GASOLINE ENGINES

Problem	Cause	Correction
Unit has following problems:failureto producepressureerratic	 Low pressure spray tip installed. Water inlet is blocked. Inadequate water supply. 	1.Replacewithhighpressurespraytip. 2. Clear inlet. 3. Provide adequate water flow.
pressure,chatteringloss ofpressure,lowwater volume.	4. Inlet hose is kinked or leaking. 5. Clogged inlet hose screen. 6. Water supply is over 100°F (38°C). 7. Highpressurehoseisblockedorleaks. 8. Spray gun leaks. 9. Spray tip is obstructed.	4. Straighten inlet hose, patch leak. 5. Checkand clean inlet hosescreen. 6. Provide cooler water supply. 7. Clear blocks in outlet hose. 8. Replace spray gun. 9. Clean spray tip.
	10. Pump is faulty.	10. Contact local service facility.
Detergentfailstomix with spray.	1Detergentsiphoningtubeisnotsubmerged. 2Detergentsiphoningtube/filterisdogged or cracked.	1.Insertdetergentsiphoningtubeinto detergent. 2.Cleanorreplacefilter/detergentsiphoning tube.
	3. High pressure spray tip installed.	3. Replace with low pressures praytip.
Enginelackspower.	1. Dirty air filter.	1. Replace air filter.
Engine will not start	 1.Throttle lever on/off switch in OFF position 2. No fuel in engine 3. Worn fouled or dirty spark plug 4. Pressure build up in pump 	Turn throttle lever to ON position Till fuel tank or turn on fuel supply Replacewith factory recommended spark plug Squeeze trigger on spray wand (refer to operating instructions in owner's manual)
Units with Oil Alert	Engine not level or Engine oil level too low	Place engine on level surface or FillcrankcaseswithSAE10W30oil(referto enginemanufacturersinstructionmanual)
Enginerunswellatno loadbut"bogs"down under full load	1. Engine speed is too slow	1.AdjustThrottleLeverbacktofullthrottle.

TROUBLESHOOTING

Enginewillnotstart;or	1. Low oil level	1. Fill crankcase to proper level
startsandrunsrough	2. Dirty air cleaner	2. Clean or replace air cleaner
	3. Out of gasoline	3. Fill fuel tank
	4. Stale gasoline	4. Drain gas tank, fill with fresh fuel
	5Sparkplugwirenotconnectedtosparkplug	5. Connect wire to spark plug
	6. Bad spark plug	6. Replace spark plug
	7. Water in gasoline	7. Drain gas tank, fill with fresh fuel
	8. Overchoking	8. Open choke fully and crank engine
Engine shuts down	1. Out of gasoline	1. Fill fuel tank
during operation	2. Low oil level	2. Fill crank case with oil, to proper level
Engine lacks power	1. Dirty air filter	1. Replace air filter
Engine"putts"orfalters	1. Choke is opened too soon	1.Movechoketohalfwaypositionuntil
		engine runs smoothly
		* All engine servicing to be taken to
		manufacturer'sauthorizedserviceoutlet

PUMP

	T	
Problem	Causes	Correction
No low pressure	1. Using wrong nozzle	1. Insert black soaper nozzle
detergent delivery	2. Siphon hose or filter is plugged	2. Unplug siphon hose
Unit does not reach	1. Restricted or insufficient water su	ppthecksupplyhose,faucetandinletwater
required pressure		filter.Mustbeconnectedtowatersource
	2. Unsuitable or worn out nozzle	which provides 6GPM
	3. Regulator set too low	2. Replace nozzle
		3. Reset unloader by turning knob
		(clockwise increases pressure)

ThermalReliefValveis openanddischarging waterfromsideofpump	Water temperature is too high Pumphasoperatedmorethan3mins without pulling trigger	Use cool water only. Pulltriggeratleast30secondsevery3mins
Leak in the fittings	1.Waterleakinhighpressurefittings,hose or gun	1. Use teflon tape or pipe sealant to tightenhosefitting, replacehoseorgun **If problem continues, take to your pressure washer dealer
Pump oil is low?	1. Normal use consumes oil over time	1.Togaugetheoillevel,lookdirectlyintothe sightglass.Oillevelshouldalwaysbeat thecenterdot.Donotoverfill replace w/30W non detergent mineral oil
Oil is milky color	1.Sealshavewornfromusandwaterhas leaked in	1.BringUnitlocalservicecentertohaveseals replaced

Winter Storage

NOTICE

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

To protect the unit from freezing temperatures:.

- 1. Use Pump Saver to treat pump. This minimizes freeze damage and lubricates pistons and seals. Contact your local dealer for Pump Saver Solution.
- 2. If pump saver is not available, connect a 3 ft. section of garden hose to water inlet adapter. Pour RV-antifreeze (antifreeze without alcohol) into hose. Pull recoil handle twice. Disconnect 3 ft. hose.
- 3. Store unit in a clean, dry area (heated area preferred).

Long Term Storage

If you do not plan to use the pressure washer for more than 30 days, you must prepare the engine and pump for long term storage.

Protect Fuel System

Fuel Additive:

Fuel will become stale when stored over 30 days. Stale fuel causes acids and gum deposits to form in the fuel system or on essential carburetor parts. Prior to storage, if gasoline has not been treated with a fuel stabilizer, it must be drained from the engine into an approved container. Then run engine until it stops from lack of fuel.

When fuel stabilizers are used according to their instructions, there is no need to drain the gasoline from the engine prior to storage. Run the engine for a short time to circulate stabilizer throughout the fuel system. Engine and fuel can then be stored up to 24 months.

If gasoline is drained, the use of a fuel stabilizer in the storage container is still recommended to maintain freshness.

Storing the Engine

See the engine operator's manual for instructions on how to properly prepare the engine for storage.

NOTICE

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

NOTE: Pump Saver is available as an optional accessory. It is not included with the pressure washer. Contact the nearest authorized dealer to purchase Pump Saver.

To use Pump Saver, make sure the pressure washer is turned off and disconnected from supply water. Read and follow all instructions and warnings given on the Pump Saver container.

Other Storage Tips

- 1. DO NOT store fuel from one season to another unless it has been treated as described in Protect Fuel System.
- 2. Replace fuel container if it starts to rust. Rust and/or dirt in fuel can cause problems if it's used with this unit.
- 3. Cover unit with a suitable protective cover that does not retain moisture.



WARNING



Storage covers can be flammable.

- DO NOT place a storage cover over a hot pressure washer.
- Let equipment cool for a sufficient time before placing the cover on the equipment.
- 4. Store unit in a clean and dry area.



Brave Product Registration Form

Your Information

ruii Name:						
	Last	Firs	st	M.I.		
Address:						
	Street Address		Α	Apartment/Unit #		
	City		State	ZIP Code		
	•					
Home Phone:		Alternate Phone:				
Email						
Purchased Fi	om					
Company:						
Address:						
. Tudi essi	Street Address			Apartment/Unit #		
	City		State	ZIP Code		
Model Inform	nation					
Purchase Date						
Application Type	□ Homeowner	 Commercial 	□ Rei	ntal		
Model (i.e. BR2530HCA)	1	Serial #				
Signature						
	Register your product	t online at www.brav	eproducts.com	n		



Brave 20195 S. Diamond Lake Rd., STE 100 Rogers, MN 55374 1-800-350-8739