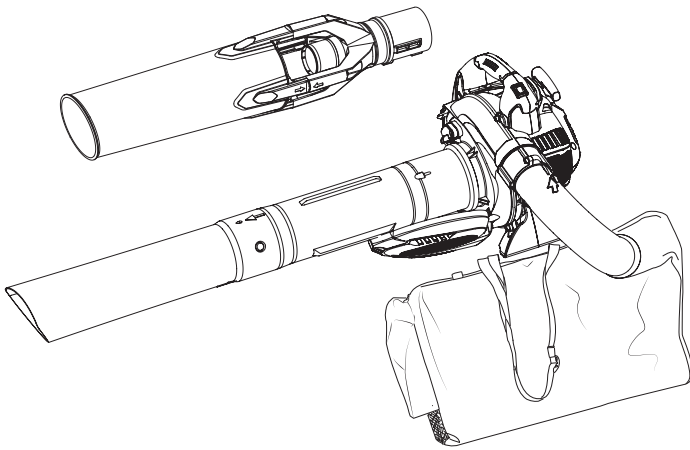




YARDWORKS^{®/MD}

Leaf Blower & Vacuum

model number 060-2385-8 | contact us: 1.866.523.5218

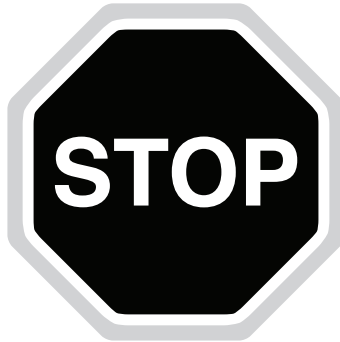


⚠ WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product. If you do not understand the warnings and instructions in the operator's manual, do not use this product.

⚠ NOTICE: Do not use E15 or E85 fuel (or fuel containing greater than 10% ethanol) in this product. It is a violation of federal law and will damage the unit and void your warranty. FUEL MIXTURE for this product is powered by a 2-cycle engine and requires pre-mixing gasoline and 2-cycle oil in a 40:1 ratio. Pre-mix unleaded gasoline and 2-cycle engine oil in a clean container approved for gasoline. DO NOT mix quantities larger than usable in a 30-day period.

READ AND SAVE THIS MANUAL. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product. Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

SAFETY INSTRUCTIONS	3
SAFETY SYMBOLS	7
OPERATION SYMBOLS	9
SPECIFICATIONS	11
SAFETY LABELS	12
CONTROLS AND FEATURES	14
ASSEMBLY	15
OPERATION	20
MAINTENANCE	28
TROUBLESHOOTING	33
EXPLODED VIEW - A (PRODUCT)	34
PARTS LIST – A (PRODUCT)	35
EXPLODED VIEW - B (PRODUCT)	36
PARTS LIST – B (PRODUCT)	37
EXPLODED VIEW - C (PRODUCT)	40
PARTS LIST – C (PRODUCT)	41
WARRANTY	43



For problems or questions, **DO NOT RETURN TO STORE.**
Please contact one of our Customer Service Agents
who would be happy to assist you.



For Customer Assistance Please Call:
1.866.523.5218

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

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.

NOTICE

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

IMPORTANT SAFETY INSTRUCTIONS

- Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.
- Keep all bystanders, children, and pets at least 50' (15.2 m) away.
- Wear heavy long pants, long sleeves, boots, and gloves. Do not wear loose fitting clothing, short pants, sandals, jewellery of any kind, or go barefoot.
- To reduce the risk of injury associated with objects being drawn into rotating parts, do not wear loose clothing, scarves, neck chains, and the like.
- Secure long hair so it is above shoulder level to prevent entanglement in any rotating parts.
- Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Wear a face filter mask in dusty conditions to reduce the risk of injury associated with the inhalation of dust.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance or exposure to hot surfaces.
- Never operate the unit without a spark arrestor screen; this screen is located inside the muffler.
- Do not allow children or untrained individuals to use this unit.
- Never start or run the engine inside a closed area; breathing exhaust fumes can kill.
- Always wear eye protection with side shields marked to comply with ANSI Z87.1 along with hearing protection.

- Use only identical manufacturer's replacement parts and accessories. Use of any other parts may create a hazard or cause product damage.
- Maintain the unit per maintenance instructions in this Operator's Manual.
- Inspect the unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts.
- Do not use on a ladder, rooftop, tree, or other unstable support. Stable footing on a solid surface enables better control of the blower in unexpected situations.
- Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent starting.
- Service on the blower/vacuum must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in injury to the user or damage to the product.
- Always hold the blower/vacuum in your right hand during blower operation. Refer to the Operation instructions later in this manual for proper position during vacuum operation and additional information.
- Never place objects inside the blower tubes.
- Use only as directed in this operator's manual.
- Do not operate vacuum without vacuum bag installed; flying debris could cause serious injury. Always close vacuum bag completely before operating.
- Rotating impeller blades can cause severe injury. Stop the engine and ensure impeller blades have stopped rotating before opening the vacuum door or installing/ changing tubes. Do not put hands or any other object into the vacuum tubes while they are installed on the unit.
- Never run the unit without the proper equipment attached. When used as a blower, always install the blower tubes. When used as a vacuum, always install the vacuum tubes and vacuum bag. Make sure the vacuum bag is completely zipped when the unit is running to avoid flying debris.
- Avoid situations that could catch the vacuum bag on fire. Do not operate near an open flame. Do not vacuum warm ash from fireplaces, barbecue pits, brush piles, etc. Do not vacuum discarded cigars or cigarettes unless the cinders are completely cool.
- Never place blower on any surface, except a hard, clean surface when engine is running. Gravel, sand, and other debris can be picked up by the air inlet and thrown at the operator or bystanders, causing possible serious injuries.
- To reduce the risk of hearing loss associated with sound level(s), hearing protection is required.

- To reduce the risk of injury associated with contacting rotating parts, stop the engine before installing or removing attachments. Always disconnect the spark plug before performing maintenance or accessing any movable parts.
- Never use blower near fires, fireplaces, hot ashes, barbecue pits, etc., which may cause fire to spread.
- Do not point the blower nozzle in the direction of people or pets.
- Never run the unit without the proper equipment attached. Always ensure the blower tubes are installed.
- This product is intended for infrequent use by homeowners and other occasional users for such general applications as blowing leaves and lawn clippings, etc. It is not intended for prolonged use. Exposure to vibrations through prolonged use of gasoline-powered hand tools could cause blood vessel or nerve damage in the fingers, hands and joints of people prone to circulation disorders or abnormal swelling. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands or joints, discontinue use of the tool and seek medical attention. For such use, it may be appropriate to use a product having an anti-vibration feature.

FUEL SAFETY

- Fuel is highly flammable. Take precautions when using to reduce the chance of serious personal injury.
- Store fuel in a cool, well-ventilated area, safely away from spark and/or flame-producing equipment.
- Store fuel in containers specifically designed for this purpose.
- Only refuel outdoors and do not smoke while refueling.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
- Do not smoke while handling fuel.
- Mix and store fuel in a container approved for gasoline.
- Mix fuel outdoors where there are no sparks or flames.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Tighten the fuel cap securely after refueling.
- Wipe spilled fuel from the unit. Move 30' (9 m) away from refueling site before starting engine.
- Never attempt to burn off spilled fuel under any circumstances.
- To reduce the risk of fire and burn injury, handle fuel with care. It is highly flammable.

SAFETY INSTRUCTIONS







- If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapours have dissipated.
- Replace all fuel tank and container caps securely.
- Empty fuel tank into a container approved for gasoline and restrain the unit from moving before transporting in a vehicle.
- When draining the fuel tank, use an approved fuel storage container in a well-ventilated area.
- Select bare ground, stop engine, and allow to cool before refueling.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this product. If you loan someone this tool, loan them these instructions also.


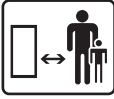



⚠ DANGER: GASOLINE AND GASOLINE VAPOURS ARE HIGHLY FLAMMABLE AND EXPLOSIVE

Fire or explosion can cause severe burns or death.


⚠ WARNING: Never use a gasoline container, gasoline tank, or any other fuel item that is broken, cut, torn or damaged.







Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	<p>Read Operator's Manual. To reduce the risk of injury, user must read and understand operator's manual before using this product.</p>
	<p>Eye and Ear Protection. Always wear safety goggles or safety glasses with side shields, and as necessary a full face-shield as well as full ear protection when operating this product.</p>
	<p>Vacuum Door. Do not run unit while vacuum door is unsecured.</p>
	<p>Safety Alert. Precautions that involve your safety.</p>
	<p>Risk of Fire/Explosion. Fuel and its vapours are extremely flammable and explosive. Fire can cause severe burns or death. Do not add fuel while the product is operating or still hot.</p> <p>Open Flame Alert. Fuel and its vapours are extremely flammable and explosive. Keep fuel away from smoking, open flames, sparks, pilot lights, heat, and other ignition sources.</p>
	<p>Toxic Fumes. The engine exhaust from this product contains chemicals known to cause cancer and birth defects and other reproductive harm.</p> <p>Risk of Asphyxiation. This engine emits carbon monoxide, an odourless, colourless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Use only in a well-ventilated area.</p>

SYMBOL	MEANING
	<p>Thrown Objects. This machine may pick up and throw objects which can cause serious personal injury.</p>
	<p>Clearance. Keep all objects including others at least 50' (15m) from this machine. Only one person should operate the product.</p>
	<p>Hot Surface. To reduce the risk of injury or damage, avoid contact with any hot surface.</p>
	<p>Rotating Impeller. To avoid severe damage to the impeller, do not vacuum metal, broken glass, or similar items.</p>
	<p>Rotating Impeller. Keep clear of blower outlet. Never point the blower at yourself or others. Do not operate unit without proper attachments and guards in place. Stop the engine and allow the impeller to stop before opening the vacuum door, or before cleaning or performing any maintenance.</p> <p>Rotating Blades. Never put your hand in the chute. Contact with rotating parts can amputate fingers and hands.</p>

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	Cold Prime. To start a cold engine, press the primer bulb 7-10 times. See Starting and Stopping Section.
	Warm Prime. To start a warm or hot engine. See Starting and Stopping Section.
	Primer Bulb. Press primer bulb depending on temperature conditions. See Starting and Stopping Section.
	Starter Grip. Pull starter grip to start the engine. See Starting and Stopping Section.
	Throttle trigger. Adjusts engine speed to regulate blower or vacuum force. See Starting and Stopping Section.
	Engine START. To start the engine, follow the starting instructions. The switch is always in the "START" position, unless depressed.
	Engine STOP. To stop the engine, depress and hold the STOP switch to the stop position "O".
	Choke. Move choke lever to "RUN" position. See Starting and Stopping Section.
	Choke. Move choke lever to "CHOKE" position. See Starting and Stopping Section.
	DO NOT USE E15. Use regular unleaded gasoline with a minimum octane rating of 87 and an ethanol content of less than 10% by volume.

SYMBOL	MEANING
	DO NOT USE E85. Use regular unleaded gasoline with a minimum octane rating of 87 and an ethanol content of less than 10% by volume.
	USE LESS THAN 10% ETHANOL. Use regular unleaded gasoline with a minimum octane rating of 87 and an ethanol content of less than 10% by volume.
	2 cycle mix. This product is powered by a 2-cycle engine and requires pre-mixing gasoline and 2-cycle oil. Thoroughly mix the proper ratio of 2-cycle engine oil with unleaded gasoline in a separate fuel can. See Fueling and Refueling section.
40:1	40:1 fuel/oil ratio. Do not mix directly in the engine fuel tank. See Fueling and Refueling section.
	Use gasoline. Recommended fuel: This engine is certified to operate on unleaded gasoline intended for automotive use. See Fueling and Refueling section.
	Use 2-cycle oil. Recommended oil: Use premium 2-cycle oil, or an equivalent high-quality synthetic 2-cycle oil. See Fueling and Refueling section.
	Blower tube unlock.

BLOWER/VAC SPECIFICATIONS

Displacement	27.6 cc
Type	2-Stroke
Air Velocity*	Max 85 MPH (137 km/h) Max 700 CFM (ft ³ /min)
Impeller Type	6 1/2" (16.8 cm) plastic
Mulching Blade	3" (7.6 cm) metal
Sound Pressure*	79 dB(A) @ 50' (15.2 m)
Weight	Blower — 11 lb 14 oz (5.3 kg) Vacuum — 12 lb 13 oz (5.8 kg)

* Rated per ANSI/OPEI B175.2

FUEL MIXTURE

This product is powered by a 2-cycle engine and requires pre-mixing gasoline and 2-cycle oil in a 40:1 ratio. Pre-mix unleaded gasoline and 2-cycle engine oil in a clean container approved for gasoline. DO NOT mix quantities larger than usable in a 30-day period.

Recommended fuel: This engine is designed and certified to operate on unleaded gasoline intended for automotive use. When adding gasoline, use a minimum octane rating of 87 and an ethanol content of 10% or less by volume. DO NOT USE E15 or E85.

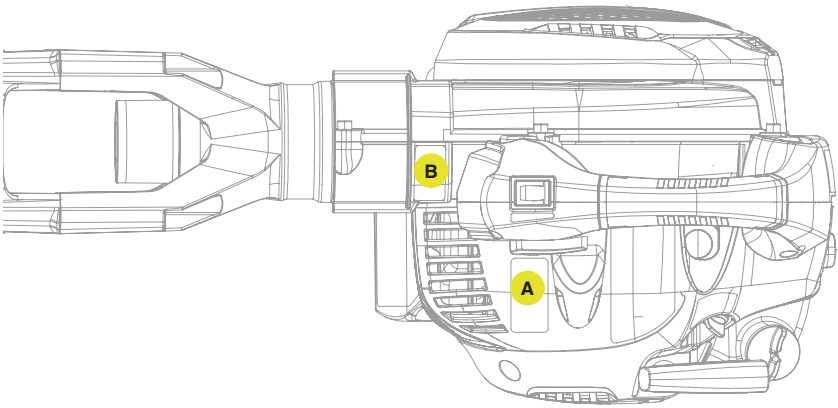
Recommended oil: Use premium 2-cycle oil, or an equivalent high-quality synthetic 2-cycle oil.

SPARK PLUGS

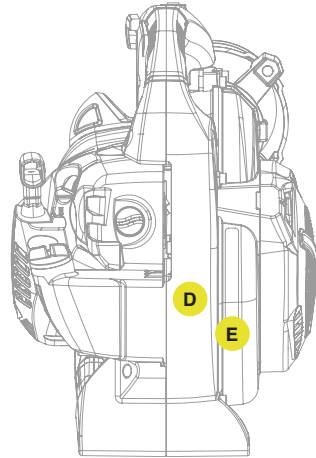
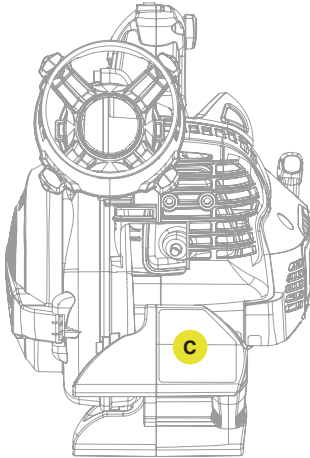
OEM Type	Champion RCJ7Y
Replacement Type	NGK BPMR7A BOSCH WSR6F
Gap	0.024 - 0.028" (0.6 - 0.7 mm)

These labels warn you of potential hazards that can cause serious injury. Read them carefully.

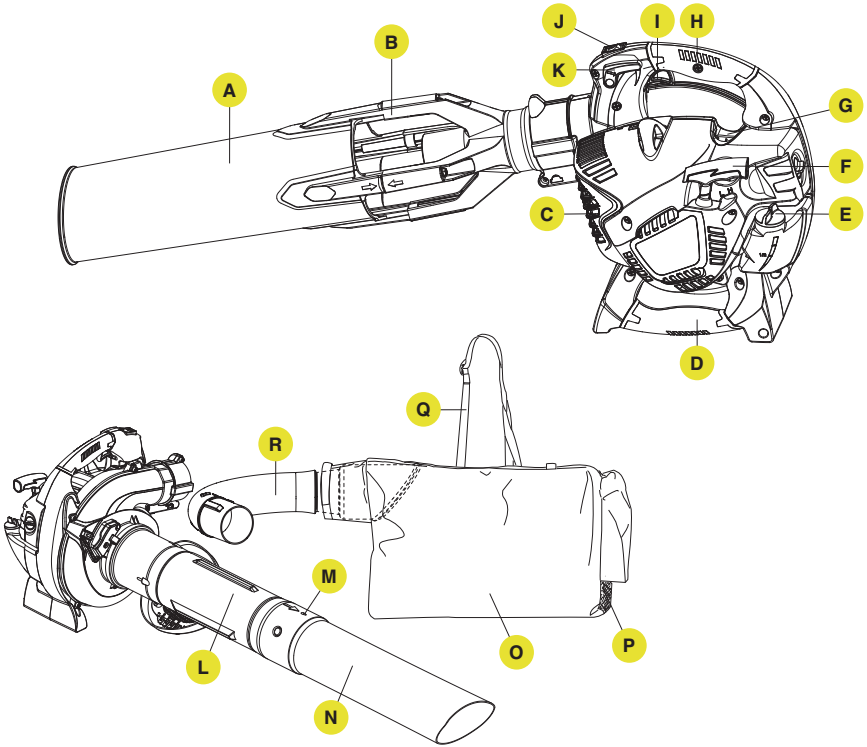
If a label comes off or becomes hard to read, contact Technical Support Team for possible replacement.



	LABEL	DESCRIPTION
A		Hot Surface
B		Safety Icons



	LABEL	DESCRIPTION
C	<p>⚠ WARNING DO NOT TOUCH! Hot surface. Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.</p> <p>⚠ AVERTISSEMENT NE TOUCHEZ PAS! Surface chaude. Le fonctionnement de cet équipement peut créer des étincelles qui peuvent déclencher des incendies autour de la végétation sèche. Un pare-étincelles peut être nécessaire. L'utilisateur doit communiquer avec le service d'incendie local pour les lois et les règlements relatifs à la prévention des incendies.</p>	Hot Surface
D		Danger Icons / Fuel Info
E		Danger Icons / Vacuum Door

**BLOWER**

- A. Lower blower tube
- B. Upper blower tube
- C. Muffler
- D. Vacuum handle
- E. Fuel cap
- F. Starter grip
- G. Primer bulb
- H. Upper handle
- I. Throttle trigger
- J. STOP switch
- K. Throttle lock

Choke (not shown- behind starter grip)

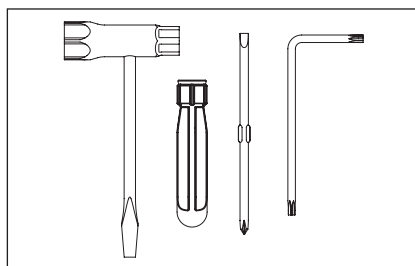
VACUUM

- L. Upper vacuum tube
- M. Tube lock
- N. Lower vacuum tube
- O. Vacuum bag
- P. Vacuum bag exit
- Q. Shoulder strap
- R. Vacuum bag adaptor

model no. 060-2385-8 | contact us: 1.866.523.5218

TOOLS INCLUDED

- Spark plug wrench
- Reversible flathead and cross-head screwdriver
- T25 double-ended wrench



PACKING LIST

- | | |
|--|----------------------|
| - Blower | - Vacuum bag |
| - Upper and lower Aeroforce™ blower tube | - Vacuum bag adaptor |
| - 4 Cross-head screws | - 2-Cycle Oil |
| - Upper and lower vacuum tubes | - Operator's manual |

⚠ WARNING: Do not use this product if any parts on the Packing List are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

💬 NOTICE: Read and remove all hang tags and store with your Operator's Manual.

⚠ WARNING: If any parts are damaged or missing do not operate this product until the parts are replaced. Use of the product with damaged or missing parts could result in possible serious personal injury.

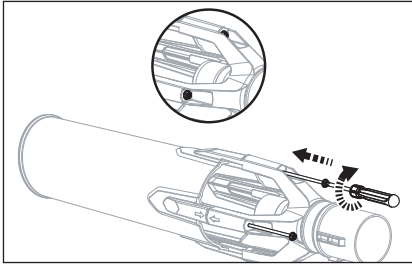
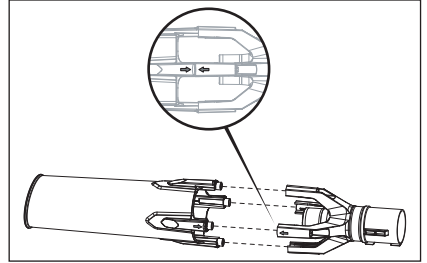
⚠ WARNING: Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

⚠ WARNING: To prevent accidental starting that could cause serious personal injury, always disconnect the engine spark plug wire from the spark plug when assembling parts.

BLOWER

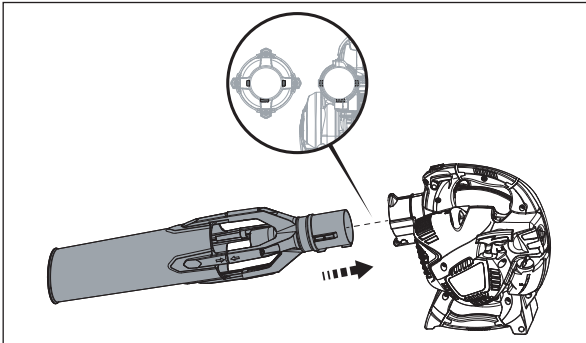
Attaching the Aeroforce™ Blower Tube

1. Align the upper and lower blower tubes at the arrows. Once confirmed all 4 arms fit flush together, press the two parts together.



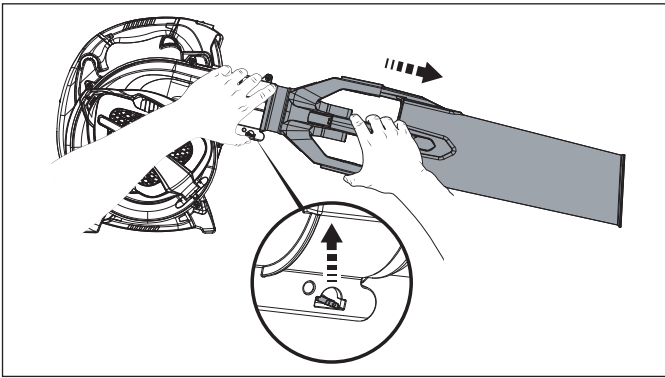
2. Insert screws and tighten completely on all 4 sides.

3. Align the raised tabs on the blower tube to the blower outlet. Press the tube into the blower outlet.
4. Check tightness after initial use and re-tighten if needed.

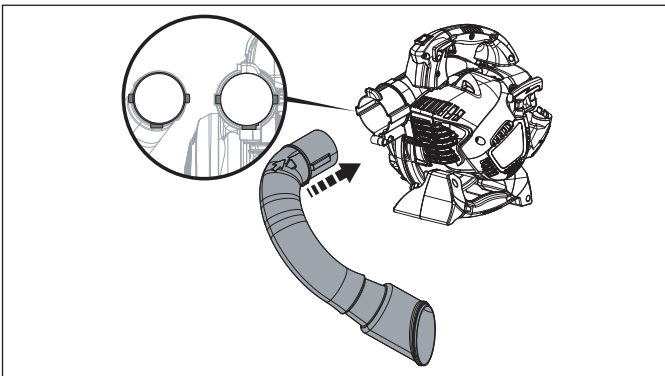


VACUUM**Removing the Blower Tube**

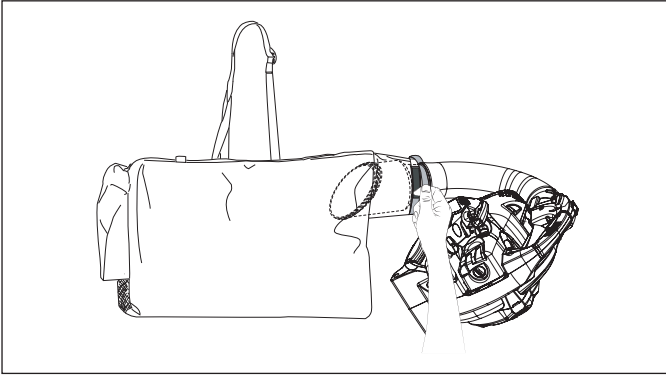
1. Press the tab to release the blower
2. Slightly twist the blower tube until it releases from the blower outlet.
3. Remove the blower tube from the blower outlet.



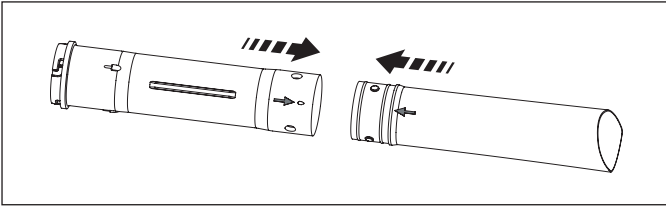
4. Align the slots of the vacuum bag adaptor with the blower outlet opening, then push the tube until it is firmly in place.



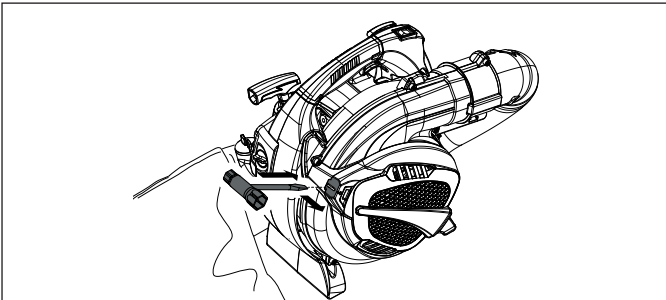
5. Insert the end of the vacuum bag adaptor in the bag opening and close the inlet with the hook and loop fastener provided.



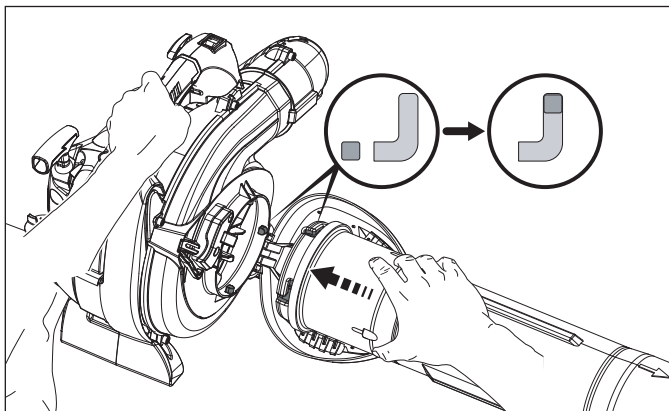
6. Secure the upper and lower vacuum tubes together by aligning the arrows.
7. Push together as far as possible until they lock in place.



8. Insert a flat-head screwdriver into the hole in the impeller door and press the impeller door lock tab inward.
9. Open the impeller door.



10. While holding the impeller door open, align the slots on the vacuum tube with the tabs in the impeller intake.
11. Insert the upper vacuum tube into the impeller intake.
12. Twist the upper vacuum tube counter-clockwise with both hands until it locks into place.



APPLICATIONS

- Clearing leaves and other debris from your lawn.
- Keeping decks and driveways free from leaves and other forms of debris.
- Vacuuming leaves from your lawn.

FUELING AND REFUELING

Fuel Mixture

This product is powered by a 2-cycle engine and requires pre-mixing gasoline and 2-cycle oil in a 40:1 ratio. Pre-mix unleaded gasoline and 2-cycle engine oil in a clean container approved for gasoline. DO NOT mix quantities larger than usable in a 30-day period.

Recommended fuel: This engine is certified to operate on unleaded gasoline intended for automotive use. When adding gasoline, use a minimum octane rating of 87 and an ethanol content of 10% or less by volume. DO NOT USE E15 or E85.

Recommended oil: Use premium 2-cycle oil, or an equivalent high-quality synthetic 2-cycle oil. Do not use automotive oil or 2-cycle outboard oil.

Gasoline (US gal.)	Oil (oz)	Gasoline (L)	Oil (mL)
1.0	3.2	3.8	95
2.0	8	9.5	237
3.0	9.6	11.4	284
4.0	12.8	15.1	379
5.0	16	18.9	473


⚠ WARNING: Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.


⚠ WARNING: Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.


⚠ WARNING: Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

Filling the Tank

1. Place the blower/vacuum on a flat stable surface, with the fuel tank cap facing upwards.
2. Clean the surface around the fuel cap to prevent contamination.
3. Loosen the fuel cap slowly by turning counter-clockwise.
4. Pour the fuel mixture carefully into the tank.
5. Only fill the fuel tank to 80% of the full capacity.
6. Clean and inspect the fuel cap gasket before replacing the fuel cap.
7. Replace the fuel cap and tighten it by turning it clockwise.
8. Wipe spilled fuel from the product.
9. If you spill fuel on the unit, wait 10 minutes after wiping before starting.
10. Move at least 30' (9 m) away from refueling area before starting the product.

 **NOTICE:** It is normal for smoke to be emitted from a new engine during first use.

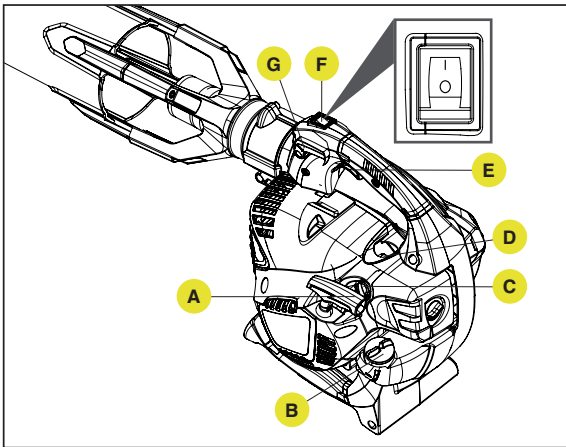
 **WARNING:** Always shut off engine before fueling. Never add fuel to a machine with a running or hot engine. Wait at least 15 minutes to allow for cool down before refueling. Move at least 30' (9 m) from refueling site before starting engine. Do not smoke and stay away from open flames and sparks. Failure to safely handle fuel could result in serious personal injury.

 **NOTICE:** Fuel system damage or performance problems resulting from the use of an oxygenated fuel blend containing more than the percentages of oxygenates previously stated are **not covered under warranty**.

STARTING AND STOPPING

To Start A Cold Engine:

1. Blower should be on a flat, bare surface for starting.
2. Set the choke knob (C) to the CHOKE position.
3. Slowly press the primer bulb (D) 7-10 times.
4. Pull the starter grip (A) sharply until engine attempts to run. Do not pull the starter grip more than four (4) times.
5. Set the choke knob (C) to the RUN position.
6. Pull the starter grip (A) sharply until engine runs. Do not pull the starter grip more than four (4) times.
7. When the engine has started, press and release the throttle trigger (E) a few times and allow the engine to idle and warm up.



- A. Starter grip
- B. Fuel cap
- C. Choke
- D. Primer bulb
- E. Throttle trigger
- F. STOP switch
- G. Throttle lock

NOTICE: Before starting, make sure blower tubes are installed completely and correctly into the blower outlet. The unit will not start correctly without the blower tube installed.


NOTICE: To avoid breaking the starter rope, do not pull the whole length or let it slide along the edge of the rope guide. Allow the starter rope to rewind gradually.

To Start A Warm Or Hot Engine:

1. Set the choke knob (C) to the RUN position.
2. Slowly press the primer bulb (D) 4-6 times.
3. Pull the starter grip (A) until the engine runs.
4. When the engine has started, press and release the throttle trigger (E).

To Stop The Engine:

To stop the engine, depress and hold the STOP switch (F) to the stop position.

 **NOTICE:** If the engine does not start, return to the CHOKE position and repeat the steps that follow. Allow the engine to run for 15 seconds, then set the choke lever to the RUN position.

IF ASSISTANCE IS REQUIRED STARTING THIS PRODUCT:

Do not return this product to the store where it was purchased.
Please call us for any issues you may have.

Contact us: 1.866.523.5218

PROPER BLOWER OPERATION**Safety:**

- Fully familiarize yourself with the IMPORTANT SAFETY INSTRUCTIONS section.
- To keep from scattering debris, blow around the outer edges of a debris pile. Never blow directly into the centre of a pile.
- Watch out for children, pets, open windows, or freshly washed cars, and blow debris safely away.

Operation:

- Check your equipment before operation, especially the muffler, air intakes, and air filters.
- Install the blower tube. Refer to the ASSEMBLY section earlier in this manual.
- Start the blower. Refer to Starting and Stopping earlier in this manual.
- Hold the upper handle in your right hand.
- Move the blower/vacuum from side to side along outer edge of the debris.
- Operate blower at the lowest possible throttle speed to do the job.



GENERAL TIPS:

- To reduce sound levels, limit the number of pieces of equipment used at any one time.
- Use rakes and brooms to loosen debris before blowing.
- In dusty conditions, slightly dampen surfaces when water is available.
- Hold blower so the air stream can work close to the ground.
- After using blowers or other equipment, CLEAN UP! Dispose of debris properly.
- Operate power equipment at reasonable hours only – not early in the morning or late at night when people might be disturbed. Comply with the times listed in local ordinances.

⚠ WARNING: Never run the unit without the blower tubes installed or the vacuum door securely closed. Use of an improperly assembled unit could result in serious personal injury.

⚠ WARNING: Always hold the blower away from your body with the handle in your right hand when operating as a blower, keeping clearance between your body and the product. The muffler side of the blower should be away from your body. Any contact with the housing can result in burns and/or other serious personal injury.

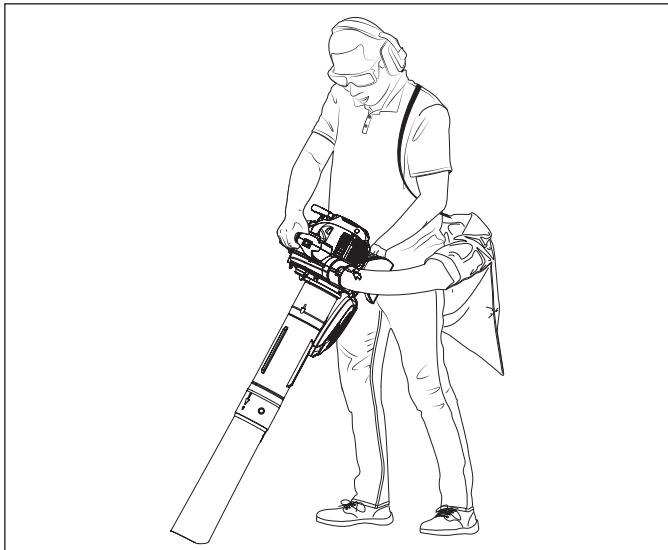
⚠ WARNING: Do not place blower on top of or near loose debris or gravel. Debris may be sucked into blower intake vent resulting in possible damage to the unit and could result in serious personal injury.

PROPER VACUUM OPERATION**Safety:**

- Fully familiarize yourself with the IMPORTANT SAFETY INSTRUCTIONS section.
- To keep from scattering debris, blow around the outer edges of a debris pile. Never blow directly into the center of a pile.
- Watch out for children, pets, open windows, or freshly washed cars.
- To avoid severe damage to the impeller, do not vacuum metal, broken glass, or similar items.

Operation:

- Install the vacuum tubes and the bag. Refer to the ASSEMBLY section earlier in this manual.
- Start the blower. Refer to Starting and Stopping earlier in this manual.
- Place the vacuum bag strap over your left shoulder.
- Hold the upper handle in your left hand and the vacuum handle in your right hand
- Move the blower/vacuum from side to side along outer edge of the debris. To avoid clogging, do not place the vacuum tube directly into the debris pile.
- Hold the engine higher than the inlet end of the vacuum tube.



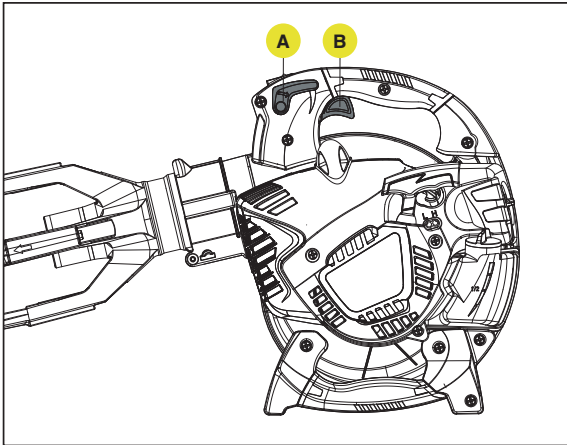
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- Always point vacuum tube downhill when working on a hillside.
- To avoid serious injury to the operator or damage to the unit, do not pick up rocks, metal, broken glass, bottles, or other similar objects.
- If the vacuum tubes should clog, stop the engine, ensure impeller blades have stopped spinning, and disconnect the spark plug wire before cleaning out the obstruction.
- Remove the vacuum tubes and clear the debris from the blower fan housing. Remove the bag and clear the tube. A small rod or stick may be required to clear the entire tube length. Ensure that all debris has been cleared before reassembling the vacuum tubes.

THROTTLE LOCK

The throttle lock can be used to operate the blower without holding the throttle trigger.

- To engage, pull throttle lock upwards.
- To release, push throttle lock downwards.



- A. Throttle lock
- B. Throttle trigger

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, lubricant, grease, etc.

⚠ WARNING: Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

⚠ WARNING: Before inspecting, cleaning, or servicing the machine, shut off engine, wait for all moving parts to stop, and disconnect spark plug wire and move it away from spark plug. Failure to follow these instructions can result in serious personal injury or property damage.

⚠ WARNING: When servicing, use only identical replacement parts. Use of any other parts could create a hazard or cause product damage.

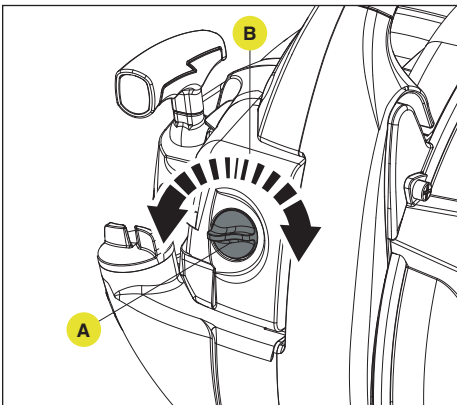
⚠ WARNING: Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which could result in serious personal injury.

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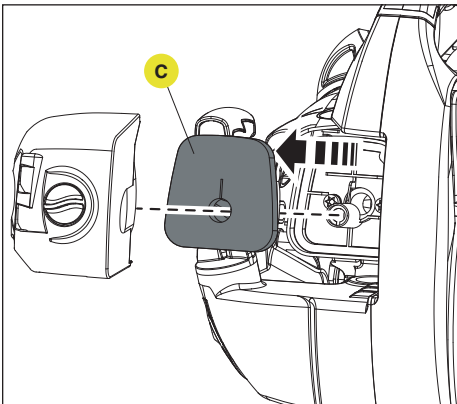
CLEANING THE AIR FILTER

For proper performance and long life, keep air filter clean.

- Remove the air filter cover by turning the dial counter-clockwise while gently pulling on the cover.
- Rinse filter with clean water.
- Gently squeeze filter until excess water is removed. Replace filter.
- Place the air filter cover back on the unit. Turn dial clockwise until cover is secure.



- A. Air filter dial
- B. Air filter cover
- C. Air filter



**CLEANING THE EXHAUST PORT, MUFFLER AND SPARK ARRESTOR
(IF APPLICABLE)**

- The spark arrestor must be cleaned or replaced every **50 hours** or yearly to ensure proper performance of your product. Spark arrestors may be in different locations depending on the model purchased. Please contact your nearest service dealer for the location of the spark arrestor for your model.
- Inspect periodically the muffler for loose fasteners, any damage or corrosion or blockage caused by insect nests. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.

VACUUM BAG

- A dirty bag will reduce performance. To clean the bag, turn it inside out and shake. Wash the bag in soapy water at least once a year.

NOTICE: With use and/or operating conditions, the exhaust port, muffler, and/or spark arrestor screen (if applicable) may become blocked with carbon deposits. If you notice a power loss with your product, you may need to remove these deposits to restore performance. We highly recommend that only qualified service technicians perform this service.

FUEL CAP

⚠ WARNING: Check for fuel leaks. A leaking fuel cap is a fire hazard and must be replaced immediately. If you find any leaks, correct the problem before using the product. Failure to do so could result in a fire that could cause serious personal injury.

SPARK PLUG REPLACEMENT

OEM Type	Champion RCJ7Y
Replacement Type	NGK BPMR7A BOSCH WSR6F
Gap	0.024 - 0.028" (0.6 - 0.7 mm)

STORING THE PRODUCT

- Clean all foreign material from the product. Store idle unit indoors in a dry, well-ventilated area that is inaccessible to children. Keep away from corrosive agents such as garden chemicals and deicing salts.
- Abide by all ISO and local regulations for the safe storage and handling of gasoline.

When storing 1 month or shorter:

- Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to your fuel container (not the fuel tank on the blower/vac). Run engine at least 3 minutes after adding stabilizer.

When storing longer than a month:

- Drain all fuel from tank into a container approved for gasoline. Run engine until it stops.

HIGH ALTITUDE ENGINE OPERATION

Please have an authorized service centre adjust this engine if it is to be run above 2000' (610 m). Failure to do so may result in poor engine performance and increased emissions. An engine adjusted for high altitudes cannot be run at 2000' (610 m) or lower. In doing so, the engine will overheat and cause serious engine damage. Please have an authorized service centre restore high altitude modified engines to the original factory specification before operating below 2000' (610 m).

MAINTENANCE SCHEDULE

Follow the service intervals indicated in the schedule below. Service your blower/vacuum more frequently when operating in adverse conditions. Contact our help line authorized service dealer. Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

Before use	
	Wipe off fuel leaks, fuel spillage.
	Inspect and clean fuel tank, air filter and fuel filter.

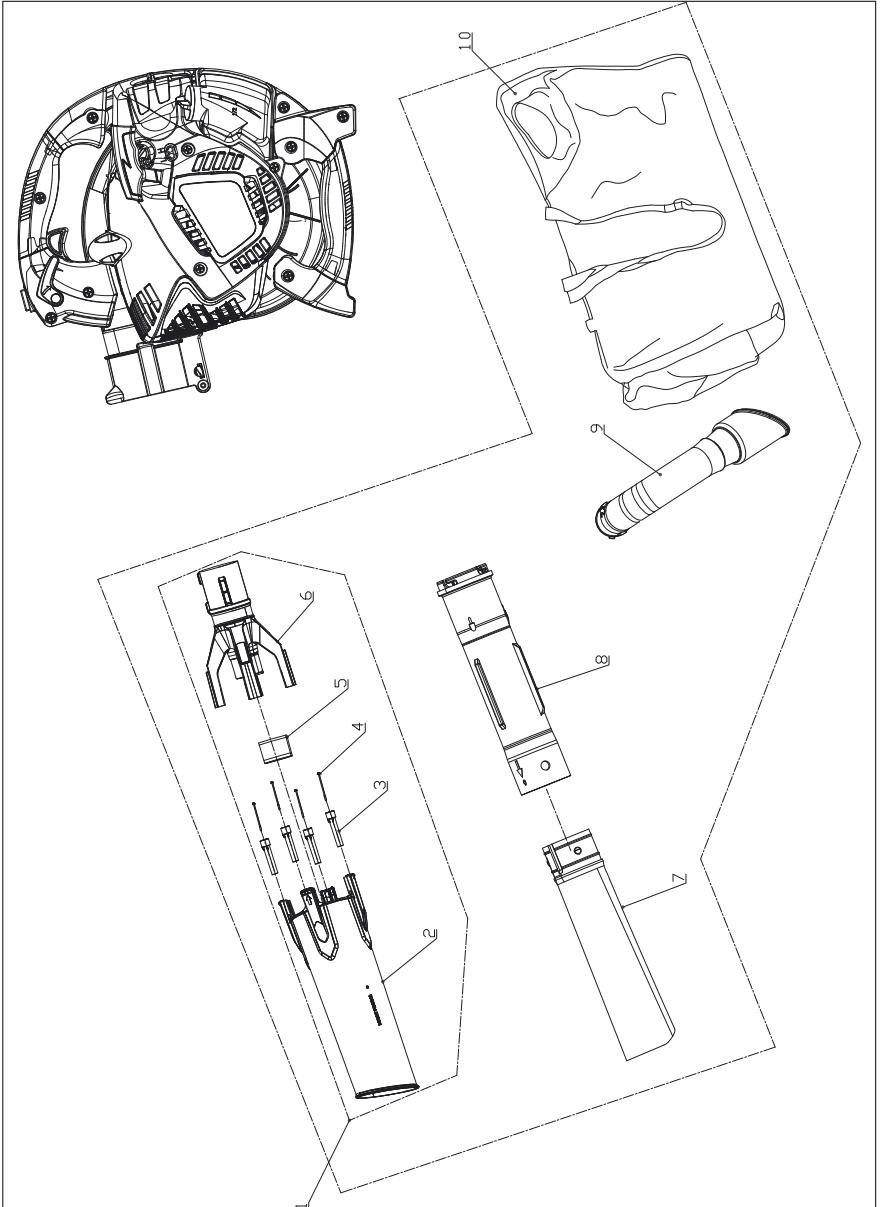
Every 25 hours	
	Clean cylinder fins and intake air cooling vent.

Every 50 hours	
	Clean and readjust spark plug gap (gap: 0.6-0.7 mm [0.024-0.028"]), and replace if necessary.
	Clean exhaust port.

Annually	
	Replace spark plug.

PROBLEM	CHECK	CAUSE	SOLUTION
Starting Failure	Fuel tank	Incorrect fuel	Drain and fill with correct fuel
	Fuel filter	Fuel filter is clogged	Replace fuel filter
	Flooded engine	Multiple	Let unit sit to air out (15 minutes) or remove spark plug and clean per instruction in manual
	Spark (no spark)	Spark plug is fouled/wet, plug gap is incorrect	Clean/ dry, correct gap: 0.024 - 0.028" (0.6 - 0.7 mm) or replace
	Blower/Vacuum tube	Blower/Vacuum tube and bag adaptor tubes are not fully installed	Install blower tube until a click is heard. Make sure vacuum and bag adaptor tubes are fully installed
Engine starts but does not keep running/ hard re-starting	Fuel tank	Incorrect fuel	Drain and fill with correct fuel
	Muffler, cylinder exhaust port	Carbon is built-up or insect nest in exhaust port	Wipe away and/or clean out
	Air cleaner	Clogged with dust	Wash with mild detergent

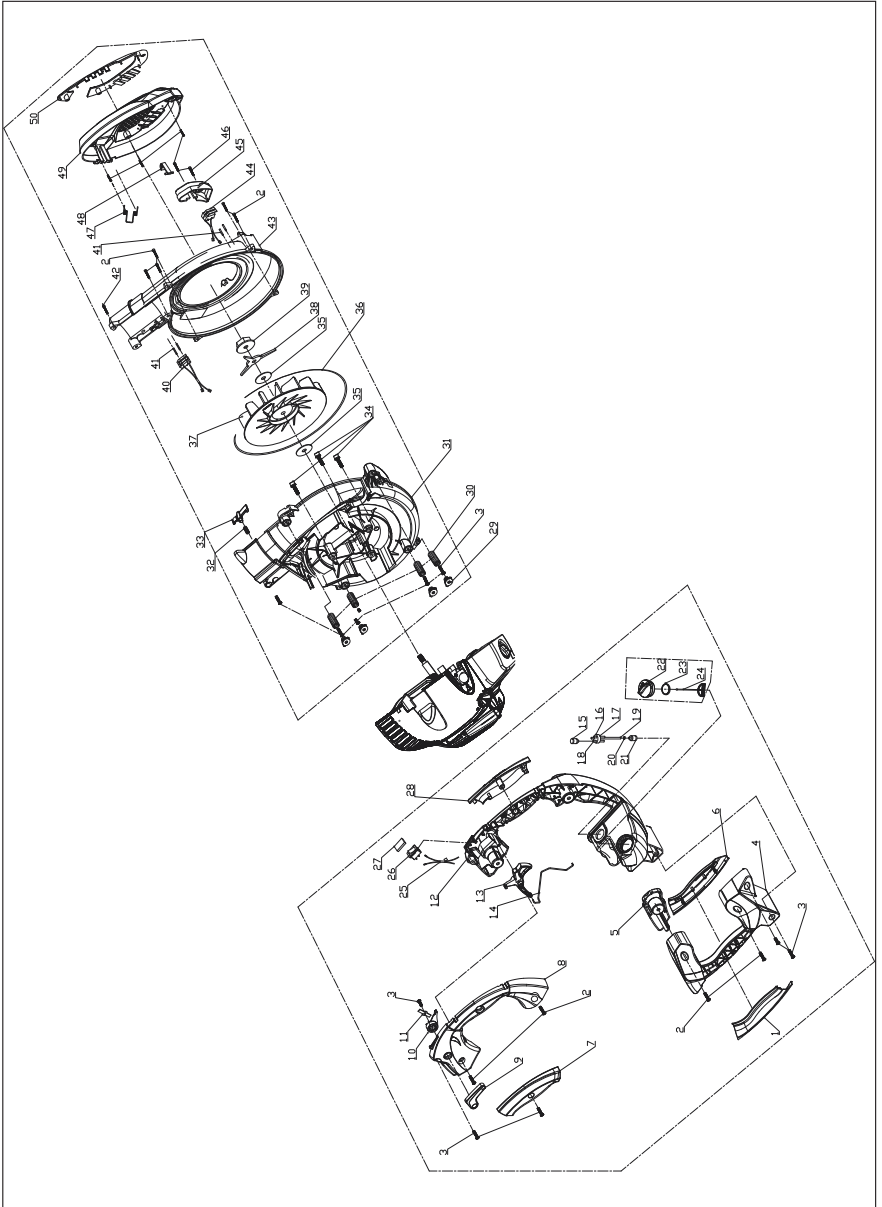
EXPLODED VIEW-A (PRODUCT)



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Item	Description	Drawing	QTY.
1	Fore Air Tube Assembly	F28.0414.0000	1
2	Fore Air Tube	F28.0414.0001	1
3	Bushing	F28.0414.0003	4
4	Screw ST4.9 x 115	F28.0414.0005	4
5	Sleeve	F28.0414.0004	1
6	Rear Air Tube	F28.0414.0002	1
7	Aspiration Channel 2	F28.0115.0002	1
8	Aspiration Channel 1	F28.0115.0001	1
9	Elbow	F28.0115.0200	1
10	Clippings Bag	F28.0115.0100	1

EXPLODED VIEW-B (PRODUCT)



model no. 060-2385-8 | contact us: 1.866.523.5218

Item	Description	Drawing	QTY.
1	Upper Cover, Under Handle	F28.0112.0300	1
2	Screw ST5 x 19	01.01.3202	9
3	Screw ST5 x 16	01.01.3031	10
4	Under Handle	F28.0112.0003	1
5	Under Handle Support	F28.0112.0004	1
6	Under Cover, Under Handle	F28.0112.0400	1
7	Left Cover, Upper Handle	F28.0112.0100	1
8	Left Half Handle, Upper Handle	F28.0112.0002	1
9	Control Knob	F28.0112.0010	1
10	Control Lever	F28.0112.0008	1
11	Control Reed	F28.0112.0009	1
12	Right Half Handle and Fuel Tank	F28.0112.0005+0001	1
13	Trigger	F28.0112.0006	1
14	Push Rod, Throttle	F28.0112.0007	1
15	Balancer	YD45.03.00-5	1
16	Oil Return Pipe	F28.0117.0002	1
17	Retainer, Fuel Tube	TBC431D.01.13.00-3	1
18	Air Tube	F28.0117.0003	1
19	Fuel Tube	F28.0117.0001	1
20	Clamp, Fuel Tube	A45.0102.0103	1
21	Fuel Filter	YD38-3.03.04-00	1
22	Fuel Tank Cap	YD62.00.03-1	1
23	O-Rings	YD38-3.03.02-3	1
24	Fall Prevention Board	YD38-3.03.02-2	1
25	Flameout Wire Assembly	F28.0213.0100	1
26	Switch	02.05.92	1
27	Switch Cover	23151-B001-0000	1
28	Right Cover, Upper Handle	F28.0112.0200	1
29	Fixed Block	F28.0111.0003	4
30	Damping Spring	F28.0111.0002	4
31	Left Half Volute	F28.0111.0100	1

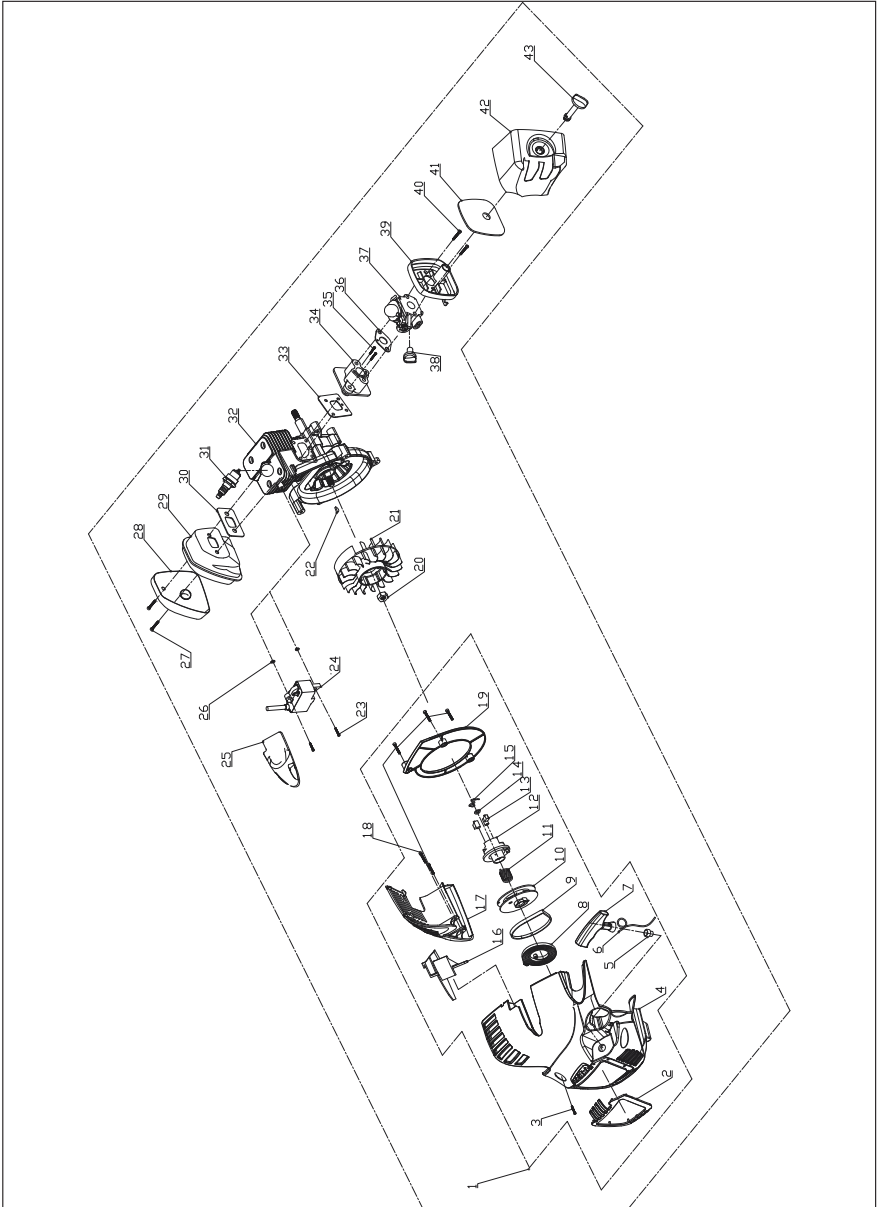
Item	Description	Drawing	QTY.
32	Button Spring	SBC653KD.02.01-06	1
33	Fixed Rod	F28.0211.0006	1
34	Screw M5 x 25	01.01.6203	3
35	Plate Washer	F28.0111.0010	2
36	Strip Seal 3 x 3 x 770	F28.0111.0013	1
37	Impeller	F28.0111.0009	1
38	Blade	F28.0111.0011	1
39	Left Handed Nut M8	01.03.0284	1
40	Fore Microswitch	F28.0213.0200	1
41	Pin	F28.0111.0012	4
42	Screw ST5 x 14	01.01.4111	1
43	Right Half Volute	F28.0111.0001	1
44	Side Microswitch	F28.0213.0300	1
45	Protection Cover, Switch	F28.0111.0005	1
46	Screw ST4 x 10	01.01.3131	5
47	Switch Lever	F28.0111.0004	1
48	Torsional Spring	F28.0111.0008	1
49	Impeller Cover	F28.0211.0101	1
50	Decorative Board, Impeller Cover	F28.0211.0102	1



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EXPLODED VIEW—C (PRODUCT)



Item	Description	Drawing	QTY.
1	Starter Assembly	F28.0210.0000	1
2	Start Housing Decorative Board	F28.0210.0001	1
3	Screw M5 x 20	01.01.6201	3
4	Start Housing	F28.0210.0100	1
5	Eyelet	YD25.02.01-2	1
6	Start Rope	YD25.02.00-5	1
7	Start Grip	YD62.02.00-3	1
8	Coil Spring	YD42.06-6	1
9	Coil Spring Cover	YD42.06-7	1
10	Start Pulley	F28.0110.0009	1
11	Start Torsional Spring	F28.0110.0002	1
12	Start Ratchet	F28.0110.0001	1
13	Start Dial Claw	F28.0110.0003	2
14	Plate Washer	F28.0110.0004	1
15	Circlip	F28.0110.0005	1
16	Rubber Pad	F28.0110.0008	1
17	Muffler Cover	F28.0110.0006	1
18	Screw ST4 x 10	01.01.3131	5
19	Air Deflector	F28.0210.0002	1
20	Flange Nut M8	01.01.0073	1
21	Magneto Rotor	F28.0106.0100	1
22	Key 3 x 5 x 13	A45.0101.0036	1
23	Screw M4 x 20	01.01.6208	2
24	Ignition	F28.0106.0200	1
25	Spark Plug Cover	F28.0106.0201	1
26	Heat Insulation Pad, Stator	F28.0101.0005	2
27	Screw M5 x 60	01.01.6234	2
28	Muffler Insulation Cover	F28.0101.0004	1
29	Muffler	F28.0105.0000	1
30	Muffler Gasket	F28.0101.0003	1
31	Spark Plug RCJ7Y	A45.0106.0500-2	1

Item	Description	Drawing	QTY.
32	Engine Block	F28.0201.0000	1
33	Inlet Pipe Sealing Gasket	F28.0101.0001	1
34	Admitting Pipe	F28.0101.0100	1
35	Screw M5 x 25	01.01.6203	2
36	Carburetor Gasket	TBC261D.01.00.00-4	1
37	Carburetor	F28.0101.0200	1
38	Choke Knob	F28.0100.0001	1
39	Air Cleaner Base	F28.0104.0003	1
40	Screw M5 x 45	01.01.6249	2
41	Element	F28.0104.0002	1
42	Air Box Cover	F28.0204.0004	1
43	Air Filter Knob	F28.0104.0004	1

2-YEAR LIMITED WARRANTY

For TWO YEARS from the date of purchase within Canada, YARDWORKS CANADA will, at its option, repair or replace for the original purchaser, free of charge, any part or parts found to be defective in material or workmanship.

THIS WARRANTY DOES NOT COVER:

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration; 2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual; 3. Normal wear, except as noted below; 4. Routine maintenance items such as oil, air filter, spark plug, fuel line; or 5. Normal deterioration of the exterior finish due to use or exposure.

FULL 120-DAY WARRANTY ON NORMAL WEAR PARTS:

Normal wear parts are starter pulleys, starter ropes, mulching blades, blower fans, blower and vacuum tubes, and vacuum bag. These parts are warranted to the original purchaser to be free from defects in material and workmanship for a period of one hundred twenty (120) days from the date of retail purchase.

HOW TO OBTAIN SERVICE:

Warranty service is available by calling the toll-free helpline at 1.866.523.5218. The factory will not accept the return of a complete unit unless prior written permission has been extended by YARDWORKS CANADA.

TRANSPORTATION CHARGES:

Transportation charges for the movement of the blower/vacuum or accessories are the responsibility of the purchaser. The purchaser must pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by YARDWORKS CANADA.

OTHER WARRANTIES:

All other warranties, express or implied, including any implied warranty of merchantability is limited in its duration to that set forth in this express limited warranty. The provisions as set forth in this warranty provide the sole and exclusive remedy of YARDWORKS CANADA obligations arising from the sale of its products.

Made in China. Imported by Yardworks Canada
Toronto, Canada M4S 2B8

YARDWORKS CANADA will not be liable for incidental or consequential loss or damage.

CHAMPION POWER EQUIPMENT, INC. (CPE), THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (U.S. EPA) EMISSION CONTROL SYSTEM WARRANTY

Your Champion Power Equipment (CPE) engine complies with U.S. EPA emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The US EPA, and CPE are pleased to explain the Federal Emission Control Systems Warranty on your 2020 small off-road engine (SORE) and engine powered equipment. New equipment that use small off-road engines (SORE) must be designed, built and equipped to meet U.S. EPA regulations.

CPE must warrant the emission control system on your small off-road engine (SORE) for the period listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your small off-road engine (SORE).

Your emission control system may include parts such as the carburetor, fuel tanks, fuel lines, (for liquid fuel and fuel vapors), fuel caps, valves, canisters, filters, clamps, connectors, and other associated components. Also included may be the fuel-injection system, the ignition system, catalytic converter and other emission related assemblies. Where a warrantable condition exists, CPE will repair your small off-road engine (SORE) at no cost to you including diagnosis, parts and labour.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

OWNER WARRANTY RESPONSIBILITIES:

As the small off-road engine (SORE) owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine (SORE), but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine (SORE) owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine (SORE) to an Authorized CPE service outlet, CPE dealer or CPE, Santa Fe Springs, CA., USA as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
12039 Smith Ave.
Santa Fe Springs, CA 90670
1-877-338-0999
tech@championpowerequipment.com

EMISSION CONTROL SYSTEM WARRANTY

The following are specific provisions relative to your Emission Control System (ECS) Warranty Coverage.

1. **APPLICABILITY:** This warranty shall apply to 1997 and later model year small off-road engines. The ECS Warranty Period shall begin on the date the new engine is delivered to its original, end-use purchaser and shall continue for 24 consecutive months thereafter.
2. **GENERAL EMISSIONS WARRANTY COVERAGE**
CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines (SORE) is:
 - 2a. Designed, built and equipped to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts.
 - 2b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.
3. **THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:**
 - 3a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.
 - 3b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
 - 3c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.
 - 3d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.
 - 3e. The owner shall not be charged for diagnostic labour which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.
 - 3f. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.
 - 3g. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.
 - 3h. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.
 - 3i. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems covered by this warranty	Parts Description
Fuel Metering System	Fuel regulator, carburetor and internal parts
Air Induction System	Air cleaner, intake manifold
Ignition System	Spark plug and parts, magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.
Evaporative Emissions	Fuel tank, fuel cap, fuel line, fuel line fittings, clamps, pressure relief valves, control valves, control solenoids, electronic controls, vacuum control diaphragms, control cables, control linkages, purge valves, gaskets, vapor hoses, liquid/vapor separator, carbon canister, canister mounting brackets, carburetor purge port connector.

TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

Champion Power Equipment, Inc.

12039 Smith Ave.

Santa Fe Springs, CA 90670

1-877-338-0999

Attn.: Customer Service

tech@championpowerequipment.com