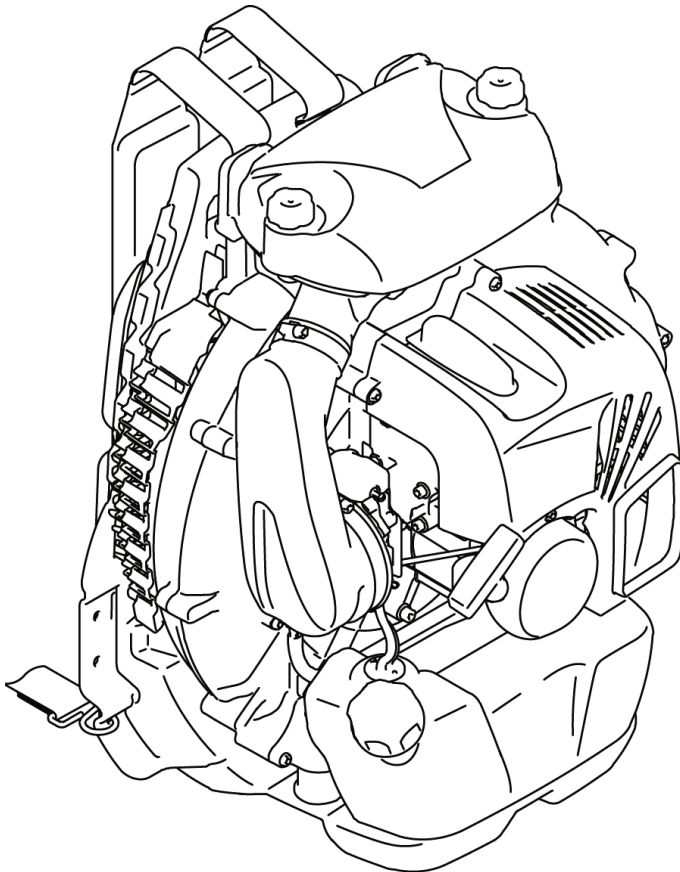


CARDINAL

LEAF BLOWER

MODEL NUMBER: CLB79

Operation Manual



To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.

Contents

Introduction.....	2	Maintenance.....	11
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Introduction

Product description

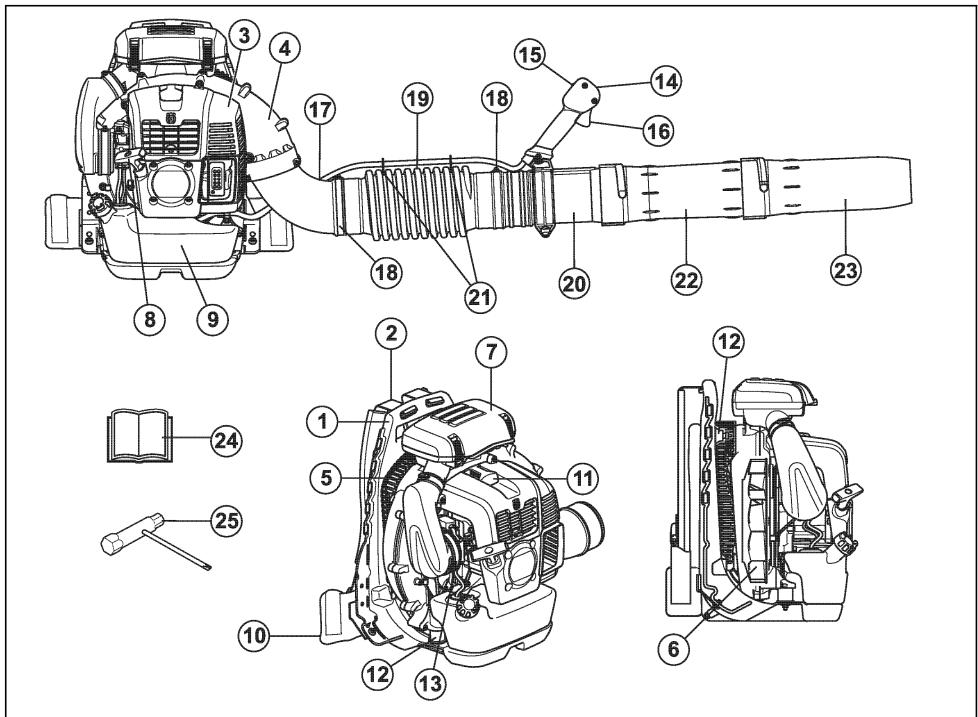
This product is a backpack blower with a fuel engine.

We have a policy of continuous product development and therefore reserve the right to modify the design and appearance of products without prior notice.

Intended use

Use the product to blow leaves and other unwanted material from areas such as lawns, pathways and asphalt roads.

Product overview



- | | |
|----------------------|------------------------------|
| 1. Frame | 7. Air filter |
| 2. Harness | 8. Starter rope handle |
| 3. Engine cover | 9. Fuel tank |
| 4. Fan housing | 10. Waist belt |
| 5. Air intake screen | 11. Spark plug |
| 6. Fan | 12. Vibration damping system |

13. Choke control
14. Handle
15. Stop switch with throttle position adjustment
16. Throttle trigger
17. Pipe angle
18. Clamp
19. Flexible hose
20. Control pipe
21. Cable clamp
22. Intermediate pipe
23. Blower nozzle
24. Operator's manual
25. Combination wrench

Symbols on the product



WARNING! This product is dangerous. Injury or death can occur to the operator or bystanders if the product is not used carefully and correctly. To prevent injury to the operator or bystanders, read and obey all safety instructions in the operator's manual.



Read the operator's manual carefully and make sure that you understand the instructions before use.



Use approved hearing protection and approved eye protection. If the environment contains dust, use a breathing mask.



yyyywwxxxx

Note: Other symbols/decals on the product refer to certification requirements for other commercial areas.

Product liability

As referred to in the product liability laws, we are not liable for damages that our product causes if:

- the product is incorrectly repaired.



Use approved protective gloves.



Refueling.



Air purge bulb.



Keep all parts of your body away from hot surfaces.



Choke, open position.



Choke, close position.

The blower can forcibly throw objects that can bounce back. This can result in serious eye injuries if the recommended safety equipment is not used.

The blower operator must make sure that no bystanders or animals come nearer than 49 feet/15 meters. Whenever several operators are work-ing in the same work area, they should maintain a safe distance of at least 49 feet/15 meters from one another.

The rating plate shows the serial number. yyyy is the production year, ww is the production week and xxxx is the sequential number.

- the product is repaired with parts that are not from the manufacturer or not approved by the manufacturer.
- the product has an accessory that is not from the manufacturer or not approved by the manufacturer.
- the product is not repaired at an approved service center or by an approved authority.

Safety

Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



WARNING: Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



CAUTION: Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

Note: Used to give more information that is necessary in a given situation.

General safety instructions



WARNING: Read the warning instructions that follow before you use the product.

- Under no circumstances may the design of the product be modified without the permission of the manufacturer. Always use genuine accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others.
- Never use a product that has been modified in any way from its original specification.
- Never use a product that is faulty. Carry out the safety checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. Refer to *Maintenance schedule on page 11* for instructions.
- All servicing and repair work on the product requires special training. This is especially true of the safety equipment. Never use a product with faulty safety equipment. If your product fails any of the checks described in this operator's manual you must contact your service agent. The safety equipment of the product must be maintained as described in this operator's manual. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your product is not a servicing dealer, ask him for the address of your nearest service agent.
- This product is a dangerous tool if used carelessly or incorrectly and can cause serious, even fatal injuries. It is extremely important that you read and understand the contents of this operator's manual.
- Long-term exposure to noise can result in permanent hearing impairment. Always use approved hearing protection.
- Do an overall inspection of the machine before use. Refer to *Maintenance schedule on page 11*.
- Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgement or your coordination.
- Wear personal protective equipment. Refer to *Personal protective equipment on page 5*.
- All covers and guards must be fitted before starting. Ensure that the spark plug cap and ignition lead are undamaged to avoid the risk of electric shock.
- The blower operator must make sure that no bystanders or animals come nearer than 15 m. Whenever several operators are working in the same work area, they should maintain a safe distance of at least 15 m from one another.
- Never allow children to operate the machine. Never allow anyone else to use the machine without first ensuring that they have read and understood the contents of the operator's manual.
- Always check for any objects that may block the air intake screen before beginning work.
- Never remove the air intake screen.
- In case of emergency, release yourself from the machine by opening the waist and chest belt and let the machine fall backwards.
- Always contact local authorities and make sure you are following applicable directives.
- Keep all parts of your body away from hot surfaces.
- Never start the machine indoors. Exhaust fumes can be dangerous if inhaled.
- Observe and be aware of the surroundings. Ensure that no people or animals can come into contact with the product. If anyone approaches your work area, set the throttle control to the lowest throttle until the person is at a safe distance. Direct the product away from people, animals, play areas, open windows and cars etc. No unauthorised persons or animals may be present in the working area, which is 15 metres.
- Overexposure to vibration can lead to circulatory damage or nerve damage in people who have impaired circulation. Contact your doctor if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. The risk increases at low temperatures.

Safety instructions for operation



WARNING: Read the warning instructions that follow before you use the product.

- Engine exhaust fumes contain carbon monoxide, which can cause carbon monoxide poisoning. For this reason you should not start or run the product indoors, or anywhere that is poorly ventilated. The exhaust fumes from the engine are hot and may contain sparks which can start a fire. Never start the product indoors or near combustible material.
- Allow the engine to cool before refueling.
- The powerful currents of air can move objects at such a speed that they can bounce back and cause serious eye injuries.
- Do not direct the air jet towards people or animals.
- Do not use the machine in bad weather, such as dense fog, heavy rain, strong wind, intense cold, etc. Working in bad weather is tiring and can lead to dangerous conditions, e.g. slippery surfaces.
- Minimize the time of operation by lightly wetting dusty areas or using spray equipment.
- Make sure you can move and stand safely. Check the area around you for possible obstacles (roots, rocks, branches, ditches, etc.) in case you have to move suddenly. Take great care when working on sloping ground.
- Never put the product down with the engine running unless you have it in clear sight.
- Never operate the product from ladders or high places (such as roofs), it is prohibited and could result in severe injury.
- Do not use the product unless you are able to call for help in the event of an accident.
- Watch out for thrown objects. Always wear eye protection. Stones, rubbish, etc. can be thrown up into the eyes causing blindness or serious injury. Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 m. Stop the machine immediately if anyone approaches.
- Do not operate the product if the exhaust gas outlet on the engine cover is covered by a wall and/or some other obstacles. The product could get damaged. Make sure that the distance is 50 cm or more from the obstacles during operation.
- Always stop the engine before cleaning.
- Always move the product away from the refueling area and source before starting. Place the product on a flat surface.
- The product may only be started in its complete design. If the product is started without all the guards fitted there is a risk of personal injuries.

Personal protective equipment

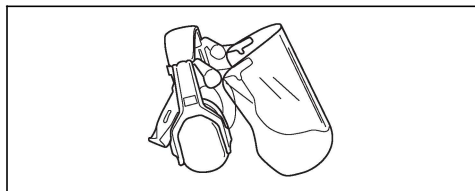


WARNING: Read the warning instructions that follow before you use the product.

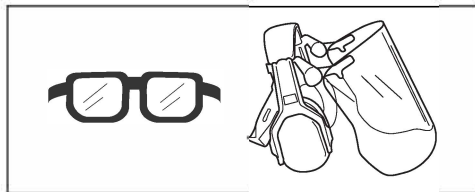
- Always use approved personal protective equipment when you use the product. Personal protective equipment cannot fully prevent injury but it

decreases the degree of injury if an accident does occur. Let your dealer help you select the right equipment.

- Use approved hearing protection.



- Use approved eye protection. If you use a visor, you must also use approved protective goggles. Approved protective goggles must agree with the ANSI Z87.1 standard in the USA or EN 166 in EU countries.



- Use gloves when it is necessary, for example, when you examine or clean the product.

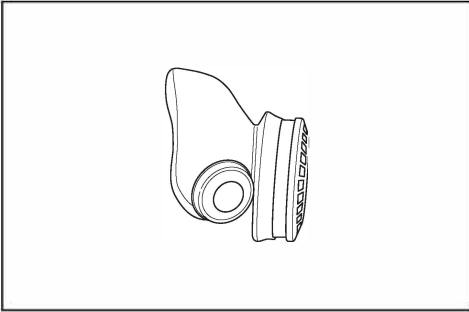


- Use protective boots, or shoes, with non-slip soles.



- Use clothing made of a strong fabric. Always use heavy, long pants and long sleeves. Do not use loose clothing that can catch on twigs and branches. Do not wear jewelry, short pants, open shoes or go with bare feet. Put your hair up safely above your shoulders.

- Use breathing protection when there is a risk of dust.



- Keep first aid equipment close at hand.



Safety devices on the product



WARNING: Read the warning instructions that follow before you use the product.

In this section the product's safety features, its purpose and how checks and maintenance should be carried out to ensure that it operates correctly. See instructions under the heading *Product overview on page 2* to find where these parts are located on your product.

The life span of the product can be reduced and the risk of accidents can increase if product maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest servicing dealer.



WARNING: Never use a product with defective safety components. The product's safety equipment must be inspected and maintained as described in this section. If your product fails any of these checks, contact your service agent to get it repaired.



CAUTION: All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent.

To do a check of the muffler



WARNING: Do not use a product with a defective muffler.



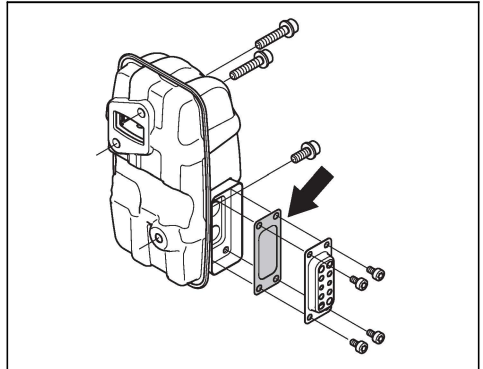
WARNING: The muffler becomes very hot during and after operation, also at idle speed. Use protective gloves to prevent burn injuries.

The muffler keeps noise levels to a minimum and sends exhaust fumes away from the operator.

1. Stop the engine.
2. Do a visual check for damage and deformation.

Note: The inner surfaces of the muffler contain chemicals that can cause cancer. Be careful not to touch these elements if the muffler is damaged.

3. Make sure that the muffler is correctly attached to the product. Tighten the screws to 8-12 Nm.

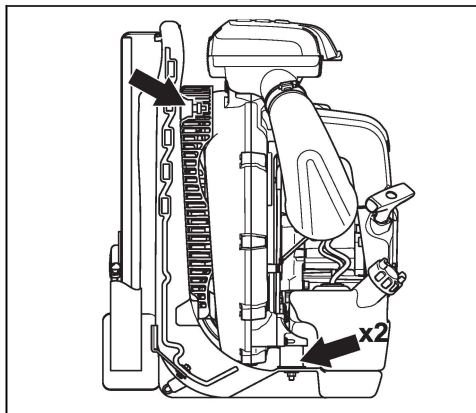


4. Examine the spark arrester screen, do a visual check.
 - a) Replace the spark arrester screen if it is damaged.
 - b) Clean the spark arrester screen if it is blocked. Refer to *To do maintenance of the muffler on page 12* for more information.

Vibration damping system

The product has a vibration damping system that decreases vibrations and makes operation easier. Examine the vibration damping system and make sure

that it is not damaged. Make sure that the vibration damping system is attached correctly.

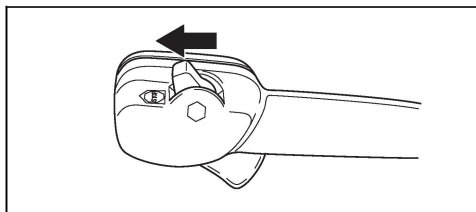


Air filter

Do not use the product without an air filter or if the air filter is damaged or has a deformation.

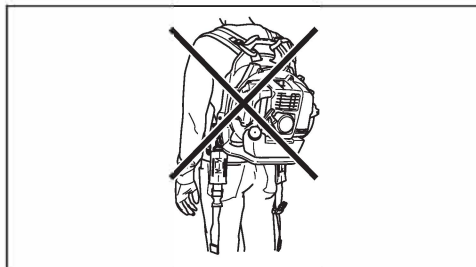
Stop switch

Use the stop switch to stop the engine. Make sure that the engine stops fully.



Harness safety

Always use the harness when you operate the product. If you do not use the harness, you cannot operate the product safely. This can result in injury to you or other persons. Make sure that the waist belt and chest strap are attached and correctly adjusted. There is a risk that an open belt can go into the fan of the product.



Fuel safety



WARNING: Read the warning instructions that follow before you use the product.

- Do not mix the fuel indoor or near a heat source.
- Do not start the product if there is fuel or engine oil on the product. Remove the unwanted fuel/oil and let the product dry. Remove unwanted fuel from the product.
- If you spill fuel on your clothing, change clothing immediately.
- Do not get fuel on your body, it can cause injury. If you get fuel on your body, use a soap and water to remove the fuel.
- Do not start the engine if you spill oil or fuel on the product or on your body.
- Do not start the product if the engine has a leak. Examine the engine for leaks regularly.
- Be careful with fuel. Fuel is flammable and the fumes are explosive and can cause injuries or death.
- Do not breathe in the fuel fumes, it can cause injury. Make sure that there is a sufficient airflow.
- Do not smoke near the fuel or the engine.
- Do not put warm objects near the fuel or the engine.
- Do not add the fuel when the engine is on.
- Make sure that the engine is cool before you refuel.
- Before you refuel, open the fuel tank cap slowly and release the pressure carefully.
- Do not add fuel to the engine in an indoor area. Not sufficient airflow can cause injury or death because of asphyxiation or carbon monoxide.
- Tighten the fuel tank cap carefully or a fire can occur.
- Move the product at a minimum of 3 m (10 ft) from the position where you filled the tank before a start.
- Do not put too much fuel in the fuel tank.
- Make sure that a leak cannot occur when you move the product or fuel container.
- Do not put the product or a fuel container where there is an open flame, spark or pilot light. Make sure that the storage area does not contain an open flame.
- Only use approved containers when you move the fuel or put the fuel into storage.
- Empty the fuel tank before long-term storage. Obey the local law on where to dispose fuel.
- Clean the product before long-term storage.
- Remove the spark plug cap before you put the product into storage to make sure that the engine does not start accidentally.

Safety instructions for maintenance



WARNING: Read the warning instructions that follow before you use the product.

- Your warranty may not cover damage or liability caused by the use of non-authorized accessories or replacement parts.

- The inside of the muffler contains chemicals that may be carcinogenic. Avoid contact with these elements in the event of a damaged muffler.
- Stop the engine before assembling or dismantling accessories or other parts.
- Check that the thick round pin in the clamp is inserted in the strap. If it is inserted incorrectly it may lead to personal injury.

Assembly

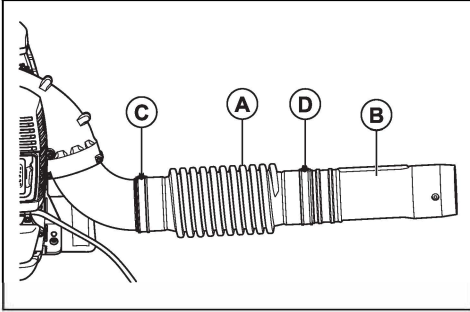
Introduction



WARNING: Read and understand the safety chapter before you assemble the product.

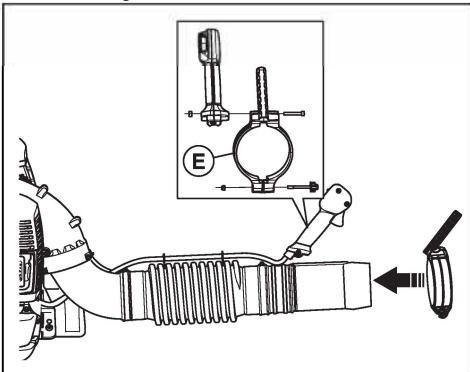
To assemble the tube and handle on the product

1. Attach the flexible hose (A) to the pipe angle and the control pipe (B) with the clamps (C), (D).



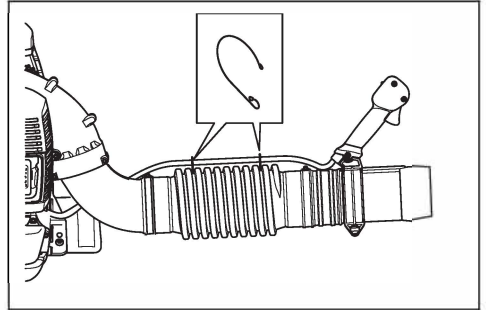
Note: Lubricate the control pipe and the flexible hose to make them more easy to assemble.

2. Attach the handle (E) to the control pipe and put the knob through the handle.

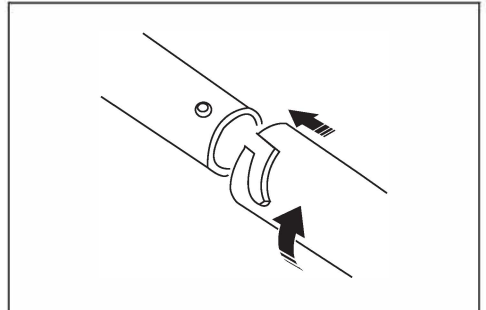


3. Tighten the knob.

4. Attach the cable to the flexible hose with the cable clamp.



5. Attach the intermediate pipe to the control pipe.



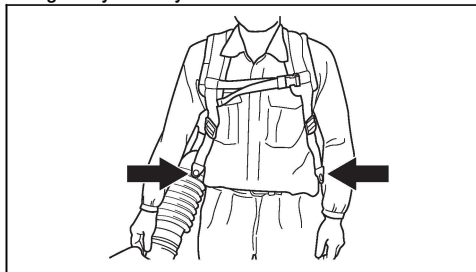
6. Attach the blower nozzle to the intermediate pipe.

To adjust the harness

A correctly adjusted harness and product makes operation easier.

1. Put on the harness of the product.

2. Tighten the side straps until the product is tight against your body.



3. Connect the chest strap to the clip.
4. Tighten the strap.

Operation

Introduction



WARNING: Read and understand the safety chapter before you use the product.

Fuel

To use fuel



CAUTION: This product has a two-stroke engine. Use a mixture of gasoline and two-stroke engine oil. Make sure to use the correct quantity of oil in the mixture. Incorrect ratio of gasoline and oil can cause damage to the engine.

alkylate fuel



CAUTION: Do not use gasoline with an octane number less than 90 RON (87 AKI). This can cause damage to the product.



CAUTION: Do not use gasoline with more than 10% ethanol concentration (E10). This can cause damage to the product.



CAUTION: Do not use leaded gasoline. This can cause damage to the product.

We recommend alkylate fuel for best performance. This fuel gives less dangerous exhaust fumes compared to regular fuel. It keeps the engine clean and increases the engine life.

- Always use new unleaded gasoline with a minimum octane number of 90 RON (87 AKI) and with less than 10% ethanol concentration (E10).

- Use gasoline with a higher octane number if you frequently use the product at continuously high engine speed.
- Always use a good quality unleaded gasoline/oil mixture.

Two-stroke oil

- For best results and performance use two-stroke oil, which is specially formulated for our two-stroke engines.
- If two-stroke oil is not available, you may use another two-stroke oil of good quality that is intended for air cooled engines. Contact your dealer when you select an oil.
- Do not use two-stroke oil intended for water-cooled outboard engines, also referred to as outboard oil.
- Do not use oil intended for four-stroke engines.

Gasoline, litre	Two-stroke oil, litre
	2% (50:1)
5	0.10
10	0.20
15	0.30
20	0.40

To make the fuel mixture

Note: Always use a clean fuel container when you mix the fuel.

Note: Do not make more than 30 days quantity of fuel mixture.

1. Add half of the gasoline quantity.
2. Add the full quantity of oil.
3. Shake the fuel mixture to mix the contents.
4. Add the remaining gasoline quantity.

5. Shake the fuel mixture to mix the contents.
6. Fill the fuel tank.

To add fuel

- Always use a fuel container with an antispill valve.
- If there is some fuel on the container, remove the unwanted fuel and let the container dry.
- Make sure that the area near the fuel tank cap is clean.
- Shake the fuel container before you add the fuel mixture to the fuel tank.

To add fuel to the fuel tank

1. Stop the product.
2. Put the product on a flat surface.
3. Loosen the fuel tank cap to release the pressure in the fuel tank.
4. Remove the fuel tank cap.
5. Fill the fuel tank to 80%.
6. Tighten the fuel tank cap fully.
7. Make sure that there is no leak in the fuel tank.

Before you operate the product



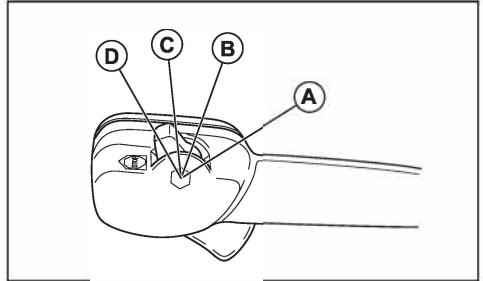
WARNING: Read the safety instructions before you operate the product.

- Use the blower with the lowest possible throttle. A lower throttle means less noise and less dust, and it is also easier to keep control over the rubbish collected together/moved. Use a rake or a brush to release rubbish stuck to the ground.
- Hold the opening of the blower as close to the ground as possible. Utilize the entire length of the blow pipe to keep the air current close to the ground. Clean up afterwards. Make sure that you have not blown rubbish into someone's garden. Operate power equipment only at reasonable hours, not early in the morning or late at night when people might be disturbed. Comply with times listed in local ordinances.
- This blower is a backpack type, and is carried using a shoulder harness while operating. It is operated and controlled with the handle on the tube using the right hand.
- The speed of the air jet is regulated by means of the throttle. Select the speed best suited for respective tasks.
- Check that the air intake is not blocked, for example, by leaves or rubbish. A clogged air intake reduces the machine's blowing capacity and increases the engine's working temperature, which can result in engine failure. Stop the engine and remove the object.
- Be aware of the wind direction. Work with the wind to make your work easier.

- Using the blower to move large piles is time consuming and creates unnecessary noise.
- Keep a good balance and a firm foothold.
- When work is finished the machine should be stored vertically.

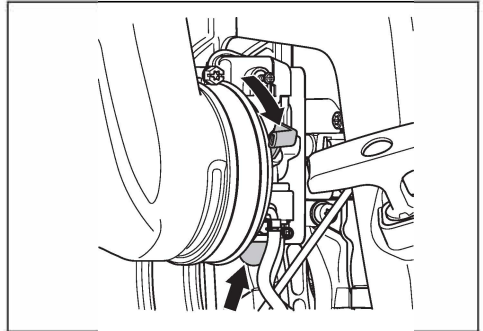
To operate the throttle switch

- Apply full throttle (A).
- Apply 1/3 speed (B).
- Apply idle speed (C).
- Stop the product with the stop switch (D).



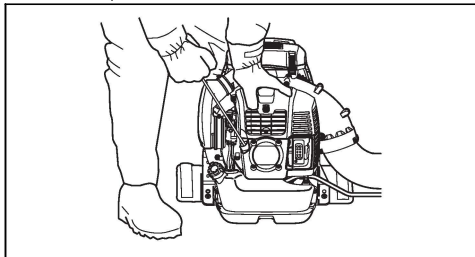
To start the product

1. If the engine is cold, push the choke lever to the closed choke position.



2. Push the air purge bulb again and again until fuel starts to fill the air purge bulb. It is not necessary to fill the air purge bulb fully.
3. Push the throttle lever to the 1/3 speed position. Refer to *To operate the throttle switch on page 10*.
4. Put the product on a flat surface on the ground.

5. Hold the product with the left hand.



6. Put your right foot on the frame.
7. Pull the starter rope handle slowly until resistance occurs.
8. Pull the starter rope handle quickly with the right hand until the engine starts or attempts to start, maximum 10 times. If the engine starts, move the choke lever gradually to the open position.

Note: Do not pull the starter rope handle to full extension and do not let go of the starter rope handle.

9. Move the choke lever to the open choke position until the choke lever stops.

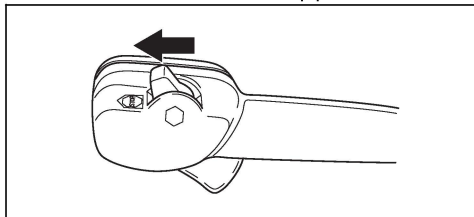
10. Pull the starter rope handle repeatedly until the engine starts and continues to run.
11. If the engine does not start, do step 1 to step 10 again.
12. Let the engine run for 2-3 minutes to become warm before operation.

To stop the product



CAUTION: Do not stop the product at full speed.

1. Push the throttle lever to the stop position.



Maintenance

Introduction



WARNING: Read and understand the safety chapter before you do maintenance on the product.

Maintenance schedule

Maintenance	Daily	Weekly	Monthly
Clean the external surface.	X		
Make sure that the throttle control operates correctly.	X		
Make sure that the stop switch operates correctly.	X		
Do a check of the stop switch, refer to <i>To stop the product on page 11</i> .	X		
Examine the engine, the fuel tank and the fuel lines for leaks.	X		
Clean the air filter. Replace if it is necessary.	X		
Tighten nuts and screws.	X		
Examine the fuel filter for contamination and the fuel hose for cracks and other defects. Replace if it is necessary.	X		
Examine the air intake and make sure that it is not blocked.	X		
Examine the starter and the starter rope for damages.		X	
Examine the vibration damping units for damages and cracks.		X	

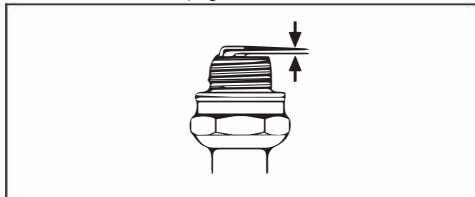
Maintenance	Daily	Weekly	Monthly
Examine the spark plug, refer to <i>To do a check of the spark plug on page 12.</i>		X	
Clean the cooling system.		X	
Clean the external surface of the carburetor and the area around it.		X	
Clean the fuel tank.			X
Examine all cables and connections.			X
Examine and clean the spark arrester screen on the muffler.			X
Replace the spark plug. Make sure it is attached with a supressor.			X

To do a check of the spark plug



CAUTION: Use the recommended spark plug. Refer to *Technical data on page 15.* An incorrect spark plug can cause damage to the product.

- If the product is not easy to start or to operate or if the product operates incorrectly at idle speed, examine the spark plug for unwanted materials. To decrease the risk of unwanted material on the spark plug electrodes, do these steps:
 - make sure that the idle speed is correctly adjusted.
 - make sure that the fuel mixture is correct.
 - make sure that the air filter is clean.
- Clean the spark plug if it is dirty.
- Make sure that the electrode gap is correct. Refer to, *Technical data on page 15.*



- Replace the spark plug monthly or more frequently if necessary.

To clean the cooling system



CAUTION: A dirty or blocked cooling system can make the product too hot, which can cause damage to the product.

The cooling system includes the cooling fins on the cylinder and the air intake screen.

- Make sure that the cooling system is not dirty or blocked.
- Clean the cooling system with a brush weekly or more frequently if it is necessary.

To do maintenance of the muffler

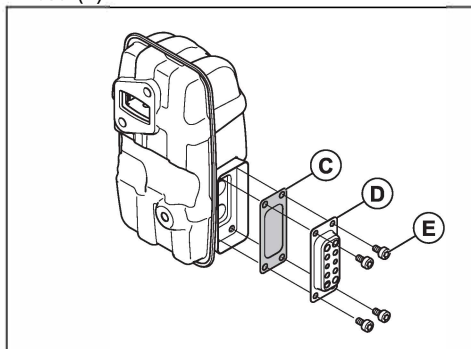


WARNING: Do not use a product with a defective muffler.



WARNING: The mufflers become very hot during and after operation, also at idle speed. Use protective gloves to prevent burn injuries.

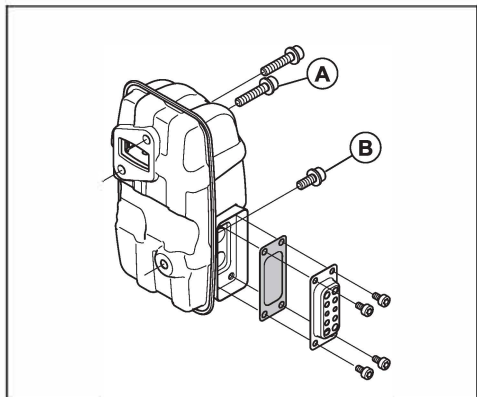
- Stop the engine and let the muffler become cool.
- Replace the spark arrester screen if it is damaged.
- Remove the screws (E) and remove the exhaust duct (D).



Note: The inner surfaces of the muffler contain chemicals that can cause cancer. Be careful not to touch these elements if the muffler is damaged.

- Remove the spark arrester screen (C) and clean it with a wire brush. Remove dirt from the inlet and outlet of the muffler with the wire brush. Also, remove dirt from the exhaust port of the cylinder with the wire brush.
- Attach the spark arrester screen (C) and the exhaust duct (D) with the screws (E). Tighten the screws to 2-3 Nm.

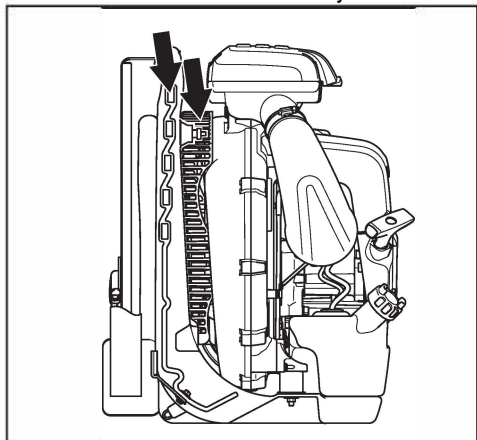
6. Make sure that the muffler is correctly attached to the product. Tighten the screws (A) and (B) to 8-12 Nm.



To examine the air intake screen

A clogged air intake screen decreases the blow force and increases the temperature of the engine. An increased temperature can result in engine failure.

1. Stop the engine.
2. Examine the air intake screen for damages and make sure that it is attached correctly.

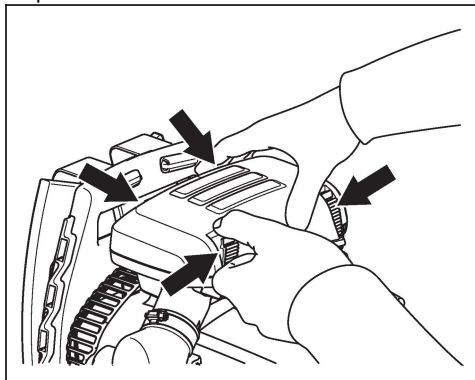


3. Remove dirt, leaves and unwanted materials from the air intake screen.

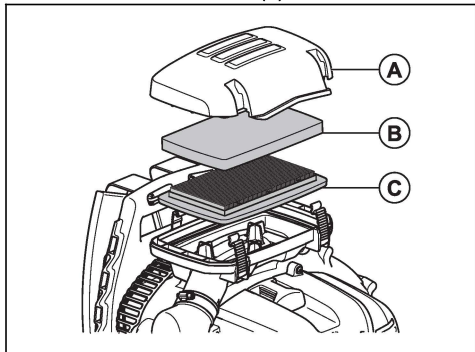
To clean the air filter

Clean the air filter regularly from dirt and dust. This prevents carburetor malfunctions, starting problems, loss of engine power, wear to engine parts and more fuel consumption than usual. Clean the air filter at an interval of 40 hours of operation or less if it is heavy operation conditions.

1. Loosen the fasteners that holds the air filter cover in position.



2. Remove the air filter cover (A).



3. Remove the foam filter (B) and the paper filter (C) from the filter frame.
4. Replace the paper filter (C).
5. Clean the foam filter (B) with warm soap water.

Note: An air filter that is used for a long time can not be fully cleaned. Replace the air filter regularly and always replace a defective air filter.

6. Make sure that the foam filter (B) is dry.
7. Clean the inner surface of the air filter cover with a brush (A).

To replace the harness



WARNING: A damaged harness can make the product fall and cause injuries.

1. Stop the engine.
2. Remove the clamp from the strap.
3. Push the end of the strap through the hanger.
4. Pull the new strap through the hanger.

5. Attach the clamp to the new strap.

Transportation and storage

Transportation and storage

- For storage and transportation of the product and fuel, make sure that there are no leaks or fumes. Sparks or open flames, for example from electrical devices or boilers, can start a fire.
- Always use approved containers for storage and transportation of fuel.
- Empty the fuel tank before transportation or before long-term storage. Push the air purge bulb to make sure that all fuel is removed. Discard the fuel at an applicable disposal location.
- Make sure that the product is clean and that a complete service is done before long time storage.
- Remove the spark plug and put approximately 15 ml of two-stroke oil into the cylinder. Turn the product 3 times and attach the spark plug again.
- Attach the product safely during transportation.

Warranty

Limited Warranty

Should any failure occur on the product under normal operating conditions within the applicable warranty period, the failed part will be replaced or repaired free of charge by a authorized dealer.

WARRANTY PERIOD: Six (6) months after purchased by end-user subject to 12 months from produced month. (30 days if used for rental purpose)

THE PURCHASER SHALL BEAR COSTS OF TRANSPORTING THE UNIT TO AND FROM THE DEALER.

THE PURCHASER SHALL NOT BE CHARGED FOR DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT THE DEALER.

THE PURCHASER OR OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE AS DEFINED BY THE MANUFACTURER IN THE OWNER/OPERATOR MANUAL.

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE, OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF REPAIR OR "REPLACE AS NECESSARY" SHALL BE WARRANTED FOR THE WARRANTY PERIOD. ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMENT POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DURABILITY MAY BE USED IN NON-WARRANTY MAINTENANCE OR REPAIRS, AND SHALL NOT REDUCE THE WARRANTY OBLIGATION OF THE COMPANY.

THE COMPANY IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS CAUSED BY THE FAILURE OF A WARRANTED PART STILL UNDER WARRANTY.

THE WARRANTY DOES NOT APPLY TO THOSE UNITS WHICH HAVE BEEN DAMAGED BY NEGLIGENCE OF INSTRUCTION LISTED IN THE OWNER/OPERATOR MANUAL FOR PROPER USE AND MAINTENANCE OF THE UNITS ACCIDENT MISHANDLING, ALTERATION, ABUSE, IM PROPER LUBRICATION, USE OF ANY PARTS OR ACCESSORIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE COMPANY'S CONTROL.

THIS WARRANTY DOES NOT COVER THOSE PARTS REPLACED BY NORMAL WEAR OR HARMLESS CHANGES IN THEIR APPEARANCE.

THERE ARE NO OTHER EXPRESS WARRANTIES.

ANY IMPLIED WARRANTY is limited to the duration of the limited warranty. Otherwise, this limited warranty is in lieu of all other expressed or implied warranties, including any warranty of FITNESS FOR A PARTICULAR PURPOSE OR USE and any implied warranty MERCHANTABILITY otherwise applicable to this product.

LIABILITIES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

IF YOU NEED TO OBTAIN MORE INFORMATION, PLEASE CALL YOUR NEAREST SERVICE CENTER, OR PLEASE CHECK xxxxxx

Technical data

Technical data

	CLB79
Engine	
Cylinder displacement, cm ³	79.9
Idle speed, rpm	2800±200
Catalytic converter muffler	No
Speed-regulated ignition system	Yes
Ignition system ¹	
Spark plug	Champion RZ7C
Electrode gap, mm	0.6-0.7
Fuel and lubrication system	
Fuel tank capacity, l	2.3
Weight	
Weight, kg	11.9
Sound levels ²	
Equivalent sound pressure level at the operator's ear, measured according to ISO 22868:2011, dB(A)	104
Vibration levels ³	
Equivalent vibration levels (a_{hveq}) at handles, measured according to ISO 22867:2011, m/s ²	2.2
Fan performance	
Maximum air velocity with standard nozzle, m/s	92
Air flow with standard nozzle, m ³ /m	27

¹ The spark ignition system complies with the Canadian ICES-002 standard.

² The equivalent sound pressure level is calculated with a work cycle of a duration of 1/7 for idling and 6/7 for racing. Reported data for equivalent sound pressure level has a typical statistical dispersion (standard deviation) of 1 dB (A).

³ The equivalent vibration level value is calculated with a work cycle of a duration of 1/7 for idling and 6/7 for racing. Reported data for equivalent vibration level has a typical statistical dispersion (standard deviation) of 1 m/s².



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