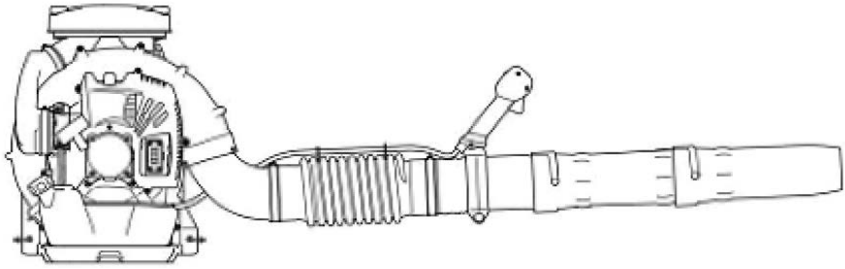
MARKSMAN

421057

BACKPACK BLOWER - EB8850



Operator's manual

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

KEY TO SYMBOLS

Symbols

WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



Always wear:

- Hearing protection
- Approved eye protection



Gloves should be worn when necessary.



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 ensure that no people or animals come closer than 15 metres. When several operators are working at the same site a safety distance of at least 15 metres must be in effect.



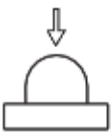
A breathing mask should be used when there is a risk of dust.



Keep all parts of your body away from hot surfaces.

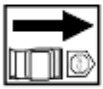


Primer bulb

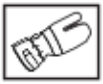


Other symbols/decals on the machine refer to special certification requirements for certain markets.

Switch off the engine by moving the stop switch to the **STOP** position before carrying out any checks or maintenance.



Always wear protective gloves.



Regular cleaning is required.



Visual check.



Protective goggles or a visor must be worn.



Refuelling.



Choke lever in "open position".



Choke lever in "closed position".



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Note the following before starting:

Please read the operator's manual carefully.



WARNING! Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection.



WARNING! Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use original accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others.



WARNING! A blower 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.

Weare has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.

The machine is only designed for blowing lawns, pathways, asphalt roads and the like.

INTRODUCTION

Dear Customer,

Thank you for choosing our products, Thank you for your trust in us!

Our was founded in 2002, Is specialized in the production of plant protection machinery、Garden machinery、Irrigation and drainage machinery Manufacturers of. The company uses advanced technology and equipment. Follow the production concept of "details are all"，Strictly control processing、Strictly control every link of processing, assembly and inspection, Continue to provide users with the best quality products.

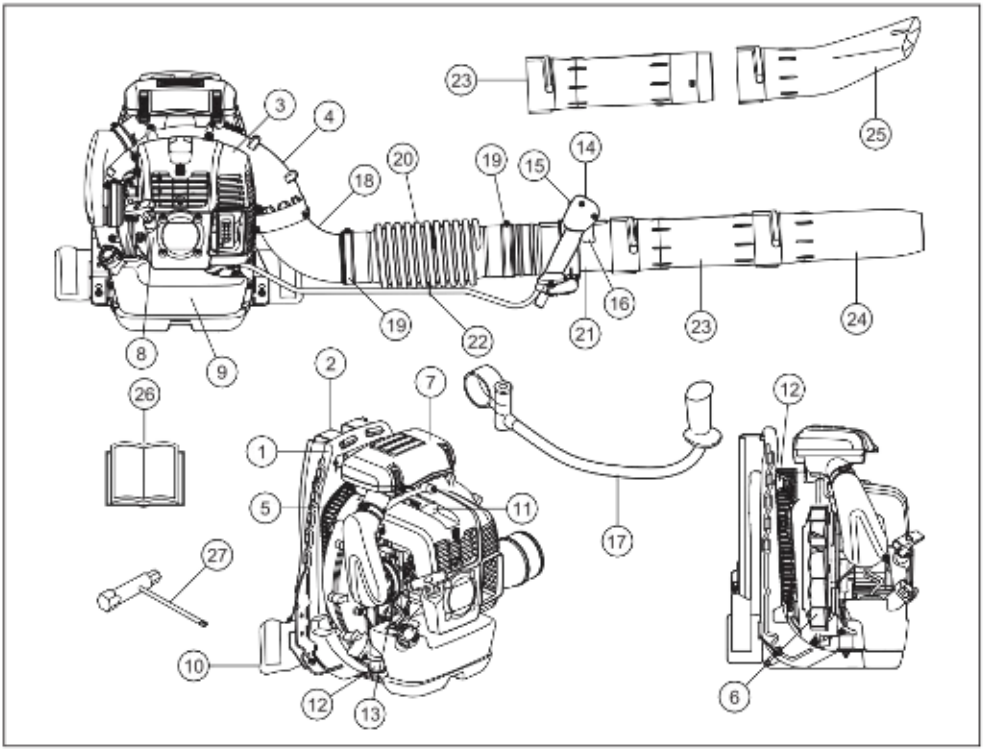
Today our is one of the leading manufacturers in the domestic of forest and garden products, with quality as our highest priority. The business concept is to develop, manufacture and market motor-driven products for forestry and gardening, as well as for the building and construction industry. Our aim is also to be at the front edge for ergonomics, usability, security and environmental protection. That is the reason why we have developed many different features to add to our products within these areas.

We are convinced that you will appreciate with great satisfaction the quality and performance of our product for a very long time to come. The purchase of one of our products gives you access to professional help with repairs and service whenever this may be necessary. If the retailer who sells your machine is not one of our authorised dealers, ask for the address of your nearest service workshop.

It is our wish that you will be satisfied with your product and that it will be your companion for a long time. Think of this operators manual as a valuable document. By following its content (usage, service, maintenance, etc), the life span and the second-hand value of the machine can be extended. If you sell this machine, make sure that the operators manual is passed on to the buyer.

Thank you for using a our product.

Our has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.



Product name

1 Frame
2 Harness
3 Engine cover
4 Fan shell
5 Air intake screen
6 Fan
7 Air cleaner
8 Starter handle
9 Fuel tank
10 Pad
11 Spark plug
12 Vibration damping system
13 Choke control
14 Control handle/Operating handle
15 Stop switch with throttle position setting
16 Throttle trigger
17 Handlebar (Accessory)
18 Elbow
19 Clamp
20 Flexible hose
21 Control pipe
22 Clamp
23 Intermediate pipe
24 Blow pipe
25 Flat nozzle (Accessory)
26 Operators manual
27 Combination spanner

GENERAL SAFETY PRECAUTIONS

General

IMPORTANT!

The machine is only designed for blowing lawns, pathways, asphalt roads and the like.

Carry out an overall inspection of the machine before use. See the maintenance schedule.

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 co-ordination.

Wear personal protective equipment. See instructions under the "Personal protective equipment" heading.

Never use a machine that has been modified in any way from its original specification.

Never use a machine 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. See instructions under the Maintenance heading.

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 ensure that no people or animals come closer than 15 m. When several operators are working at the same site a safety distance of at least 15 metres must be in effect.

Never allow children to use 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 touch the spark plug or ignition cable while the engine is running.

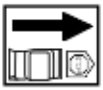
WARNING! This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

Starting

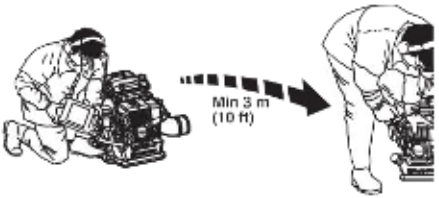
- Never start the machine indoors. Exhaust fumes can be dangerous if inhaled.
- Observe the surroundings and ensure that no people or animals can come into contact with the blower.
- Place the machine on the ground, press the machine body against the ground with your left hand (NOTE! Not your foot). Now grasp the starter handle with your right hand and then pull quickly and firmly.



Fuel safety



- Always use a fuel container with an anti-spill valve.
- Never refuel the machine while the engine is running. Always stop the engine and let it cool for a few minutes before refuelling.
- Make sure there is plenty of ventilation when refuelling or mixing fuel (petrol and 2-stroke oil).
- Avoid all skin contact with fuel. Fuel is a skin irritant and may even cause skin changes.
- Move the machine at least 3 m from the refuelling point before starting it.



- Never start the machine:

- If you have spilled fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.

- If you have spilled fuel on yourself or your clothes, change your clothes. Wash any part of your body that has come in contact with fuel. Use soap and water.

- If the machine is leaking fuel. Check regularly for leaks from the fuel cap and fuel lines.

Transport and storage

- Store and transport the machine and fuel so that there is no risk of any leakage or fumes coming into contact with sparks or open flames, for example, from electrical machinery, electric motors, electrical relays/ switches or boilers.
- When storing and transporting fuel always use approved containers intended for this purpose.
- When storing the machine for long periods the fuel tank must be emptied. Contact your local petrol station to find out where to dispose of excess fuel. Empty the fuel tank and press the primer until all fuel has been emptied. Remove the spark plug and drop a spoon of 2-stroke oil in the cylinder. Turn over the engine a few times and then put the spark plug back in place.
- Ensure the machine is cleaned and that a complete service is carried out before long-term storage.
- Secure the machine during transport.
- Store the machine in a dry, cool, well-aired and dust-free location. Store the machine out of reach of children.

WARNING! Take care when handling fuel. Bear in mind the risk of fire, explosion and inhaling fumes.

Adjusting the harness

WARNING! The harness must always be worn when working with the machine. Failure to do so means you will be unable to manoeuvre safely and this can result in injury to yourself or others.

Make sure that the waist belt and chest belt are buttoned and correctly adjusted.

There is a risk that an unclosed belt can get stuck or sucked into the fan of the machine.

A correctly adjusted harness and machine significantly facilitates the work. Adjust the harness to give the best working position.



Tighten the side straps so that the pressure is evenly distributed across the shoulders.



Place the hip strap over the hip and not too far down on the stomach. Tighten the hip strap so that you feel the weight of the blower resting on your hip. Tighten and adjust the breast belt for the best working position.



Personal protective equipment

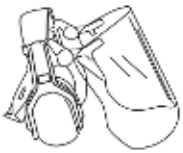
WARNING! You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment. Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

WARNING! Listen out for warning signals or shouts when you are wearing hearing protection. Always remove your hearing protection as soon as the engine stops.

- Gloves should be worn when necessary.

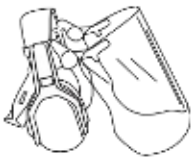


- Wear hearing protection that provides adequate noise reduction.



- Always wear approved eye protection. If you use a visor then you must also wear approved protective goggles. Approved protective goggles must comply with the ANSI Z87.1 standard in the USA or EN 166 in EU countries. Blows from branches or objects that are thrown can damage the eyes.





- Wear sturdy, non-slip boots.



- Always wear heavy, long pants, boots, gloves, and a long-sleeve shirt. To reduce the risk of injury associated with objects being drawn into rotating parts, do not wear loose clothing, scarves, jewelry, etc. Secure hair so it is above shoulder level.
- A breathing mask should be used when there is a risk of dust.



- Always have a first aid kit nearby.



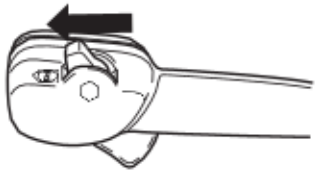
Machine's safety equipment

This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly. See the "What is what?" section to locate where this equipment is positioned on your machine.

WARNING! Never use a machine that has faulty safety equipment! Carry out the inspection, maintenance and service routines listed in this section.

Stop switch

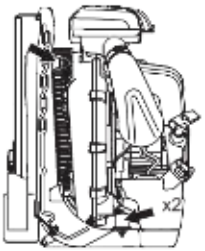
Use the stop switch to switch off the engine.



Remove the ignition cable and the spark plug to carry out inspection and maintenance.

Vibration damping system

Your machine is equipped with a vibration damping system that is designed to minimize vibration and make operation easier.



WARNING! 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.

Muffler

The muffler is designed to keep noise levels to a minimum and to direct exhaust fumes away from the user.

In countries that have a warm and dry climate there is a significant risk of fire. Consequently, we have equipped the muffler with a spark arrestor mesh mounted inside the muffler.



For mufflers it is very important that you follow the instructions on checking, maintaining and servicing your machine. See instructions under the heading Checking, maintaining and servicing the machine's safety equipment.

WARNING!

Bear in mind that: Engine exhaust fumes contain carbon monoxide, which can cause carbon monoxide poisoning. For this reason you should not start or run the machine 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 machine indoors or near combustible material!

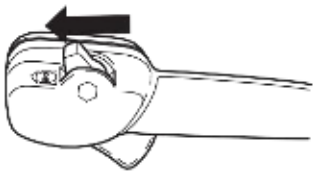
WARNING! The inside of the muffler contain chemicals that may be carcinogenic. Avoid contact with these elements in the event of a damaged muffler.

Checking, maintaining and servicing the machine's safety equipment

WARNING! All servicing and repair work on the machine requires special training. This is especially true of the machines 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.

Stop switch

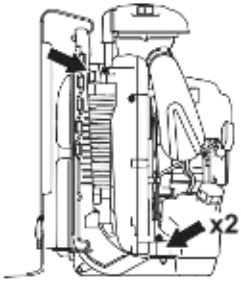
- Start the engine and make sure the engine stops when you move the stop switch to the stop setting.



Vibration damping system



- Check the vibration damping units regularly for cracks or deformation. Replace them if damaged.



- Check that the vibration damping element is undamaged and securely attached.

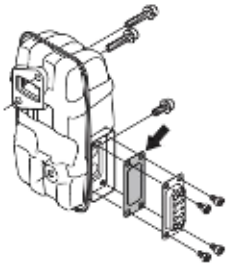
Muffler



- Never use a machine that has a faulty muffler.



- Regularly check that the muffler is securely attached to the machine.



- The muffler on your machine is equipped with a spark arrestor mesh; this must be cleaned regularly. See the heading Muffler in the Maintenance chapter. A blocked mesh will cause the engine to overheat and may lead to serious damage. Never use a muffler with a defective spark arrestor mesh.

WARNING! Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired.

Air filter

Never use the leaf blower without an air filter or with a damaged or deformed filter element as unfiltered, dusty air can quickly destroy the engine.

General working instructions

IMPORTANT! This section considers basic safety rules when working with blowers. If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop. Avoid all usage which you consider to be beyond your capability.

Show consideration to persons in your surroundings by avoiding using the machine at unsuitable times, such as late in the evening or early in the morning. Reduce the noise levels by limiting the number of equipment units used simultaneously. Read through and follow the simple directions so that you disturb your surroundings as little as possible.

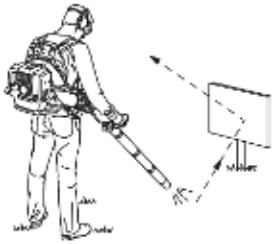
- Use the blower with the lowest possible throttle. It is seldom necessary to use full throttle, and many work procedures can be done at half throttle. A lower throttle means less noise and less dust, and it is also easier to keep control over the rubbish collected together/moved.
- Use a rake or a brush to release rubbish stuck to the ground.
- Hold the opening of the blower as close to the ground as possible. Utilise 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. Dispose of debris in trash receptacles.
- Use the machine during normal working hours to avoid unnecessary noise. Avoid working early in the morning or late at night.

WARNING! Be aware of your surroundings. If anyone approaches your work area, set the throttle control to the lowest throttle until the person is at a safe distance. Direct the blower away from people, animals, play areas, open windows and cars etc.

Basic safety rules



- No unauthorised persons or animals may be present in the working area, which is 15 metres.
- Allow the engine to cool before refuelling.
- Keep all parts of your body away from hot surfaces.
- If the machine catches fire or other emergency occurs which forces you to release yourself from the machine, open the harness straps and let the machine fall backwards.
- 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.
- Stop the engine before assembling or dismantling accessories or other parts.
- 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.
- Minimise the blowing time by lightly wetting dusty areas or using spray equipment.
- Reduce water consumption by using blowers instead of water hoses for different applications around the lawn and garden, such as lattices, screens, grills, porches, etc
- 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 machine down with the engine running unless you have it in clear sight.
- Engine exhaust fumes contain carbon monoxide, which can cause carbon monoxide poisoning. For this reason you should not start or run the machine indoors, or anywhere that is poorly ventilated.
- The blower must not be used while on a ladder or scaffolding, or in high places (such as roofs). Their work could result in severe injury.



- CAUTION! Do not use the machine unless you are able to call for help in the event of an accident.

Basic working techniques

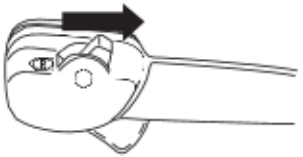
WARNING! Watch out for thrown objects. Always wear eye protection. Stones, rubbish, etc. can be thrown up into the eyes causing blindness or serious injury. Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 m. Stop the machine immediately if anyone approaches.

WARNING! Don't operate the blower if the exhaust gas outlet on the engine cover is covered by a wall and/or some other obstacles, the machine could get damage. Make sure that the distance is 50 cm or more from the obstacles during operation.

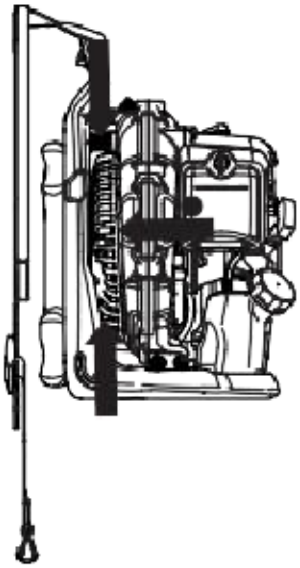
WARNING! Always stop the engine before cleaning.

- 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.

You can set the throttle position using the "stop switch" and by doing so not need to hold your finger on the throttle all the time you are using the blower. Full throttle is obtained when the control is held back fully.



- 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

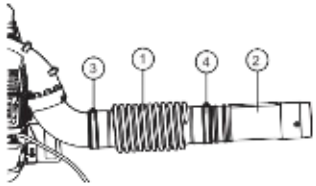


engine's working temperature, which can result in engine failure. Stop the engine and remove the object.

- 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.

Assembling the blow pipe and control handle

- Connect the blower and control pipe with the flexible hose. Clamp both ends of the flexible hose in place. Use the accompanying hardware.

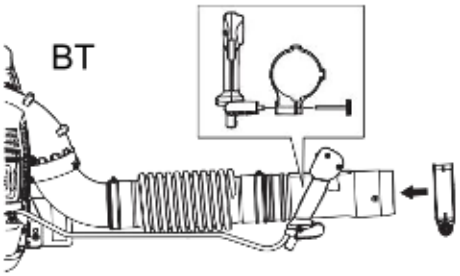


1 Flexible hose
2 Control pipe
3 Clamp
4 Clamp

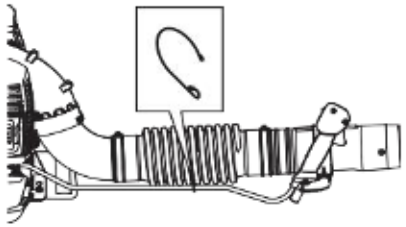
NOTE!

Lubricate the pipes a little to facilitate assembly.

- Fasten the handle holder to the control pipe and tighten the knob on the holder. Please make sure to align the handle holder with the convex of the control pipe.



- Adjust the position and angle to achieve a comfortable working position, and tighten.
- Use the clamp to fasten the cabling to the flexible hose.

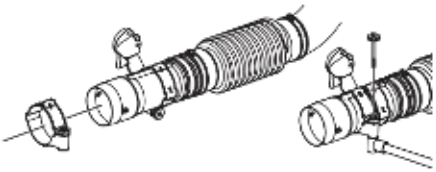


- Connect the straight pipe and pipe end. Push the pipes together and turn them so they lock.

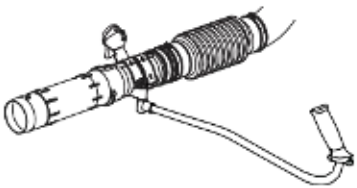
Accessories

Handlebar

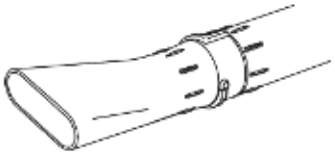
Disassemble the intermediate pipe. Disassemble the knob from the holder and puch the holder on to the holder pipe. Assemble the knob and tighten.



Assemble the intermediate pipe.



- If higher air speed is required, the round blow pipe is replaced by the flat nozzle.



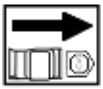
Fuel

CAUTION! The machine is equipped with a two-stroke engine and must always be run using a mixture of petrol and two-stroke oil. It is important to accurately measure the amount of oil to be mixed to ensure that the correct mixture is obtained. When mixing small amounts of fuel, even small inaccuracies can drastically affect the ratio of the mixture.



WARNING! Always ensure there is adequate ventilation when handling fuel.

Petrol



CAUTION! Always use a good quality petrol/oil mixture (at least 90 octane).



- The lowest recommended octane rating is 90. If you run the engine on a petrol with a lower octane rating than 90 this can cause knocking. This leads to an increased engine temperature, which can result in serious engine damage.
- When working at continuous high revs a higher octane rating is recommended. Use good quality unleaded petrol.

Ethanol blended fuel, E10 may be used (max 10% ethanol blend). Using ethanol blends higher than E10 will create lean running condition which can cause engine damage.

Two-stroke oil

- For best results and performance use two-stroke oil, which is specially formulated for two-stroke engines. Mixture 1:25 (4%).
- you may use another two-stroke oil of good quality that is intended for air cooled engines. Contact your dealer when selecting an oil. Mixing ratio 1:30 (3.3%).
- Never use two-stroke oil intended for water-cooled outboard engines, sometimes referred to as outboard oil.
- Never use oil intended for four-stroke engines.

Petrol, litre	Two-stroke oil, litre	
	3.3% (1:30)	0.4% (1:25)
5	0,17	0,20
10	0,33	0,40
15	0,50	0,60
20	0,67	0,80

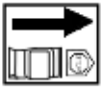
Mixing

- Always mix the petrol and oil in a clean container intended for fuel.
- Always start by filling half the amount of the petrol to be used. Then add the entire amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of petrol.
- Mix (shake) the fuel mixture thoroughly before filling the machine's fuel tank.



- Do not mix more than one month's supply of fuel at a time.
- If the machine is not used for some time the fuel tank should be emptied and cleaned.

Fueling



WARNING! Taking the following precautions, will lessen the risk of fire:

Refuel in a well ventilated area. Never fuel the machine indoors.

Do not smoke or place hot objects near fuel.

Always shut off the engine before refuelling.

Always stop the engine and let it cool for a few minutes before refuelling.

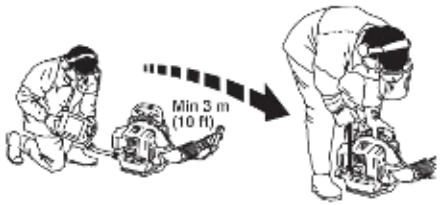
When refuelling, open the fuel cap slowly so that any excess pressure is released gently.

Tighten the fuel cap carefully after refuelling.

If you have spilled fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.

Always move the machine away from the refuelling area and source before starting.

- Move the machine at least 3 m from the refuelling point before starting it.



- Clean the area around the fuel cap. Contamination in the tank can cause operating problems.
- Ensure that the fuel is well mixed by shaking the container before filling the tank.
- Check the fuel level before each use and leave space for the fuel to expand, because the heat from the engine and the sun may otherwise cause the fuel to expand and overflow.

Starting and stopping

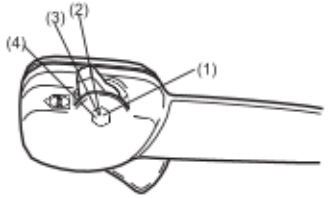
WARNING! Always move the machine away from the refuelling area and source before starting. Place the machine on a flat surface.

Make sure no unauthorised persons are in the working area. Otherwise there is a risk of serious personal injury. The safety distance is 15 m.

The machine may only be started in its complete design. If the machine is started without all the guards fitted there is a risk of personal injuries.

Cold engine

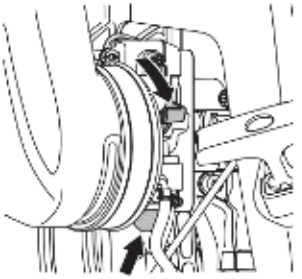
Ignition: Set the stop switch to the start position. About one third open.



1 Full throttle
2 About one third open.
3 Idle speed
4 Stop switch

It is not allowed to set the stop switch in full throttle position.

Choke: Set the choke control in the choke position.



Primer bulb: Press the air purge repeatedly until fuel begins to fill the bulb. The bulb need not be completely filled.

Warm engine

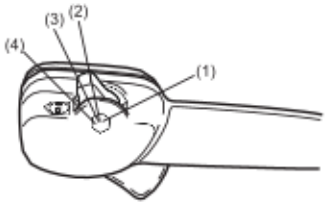
Use the same starting procedure as for a cold engine but without setting the choke control in the choke position.

Starting

Hold the body of the machine on the ground using your left hand (CAUTION! Not with your foot!). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord.



Never twist the starter cord around your hand.
Repeat pulling the cord until the engine starts. When the engine starts, return choke control to run position.
CAUTION! Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine.
NOTE!
Air is released as soon as the engine is started, even when idling.
When the engine fails to start after several attempts due to overchocking, open the choke and repeat pulling the rope.
Set the required engine speed with the throttle control.



1 Full throttle
2 About one third open.
3 Idle speed
4 Stop switch

Stopping

The engine is stopped by moving the stop switch to the stop position.



General

Remove the ignition cable and the spark plug to carry out inspection and maintenance. Keep all parts of your body away from hot surfaces.

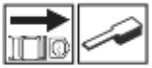
Carburettor

Adjustment of the idle speed

Before any adjustments are made, make sure that the air filter is clean and the air filter cover is fitted.

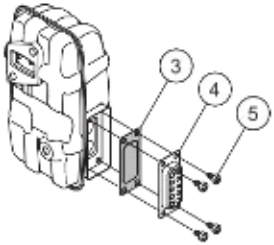
The factory idle speed setting is 2,800 rpm. Use the adjustment screw at the upper edge of the carburettor if the idle speed has to be adjusted.

Muffler



The muffler is designed to reduce the noise level and to direct the exhaust gases away from the operator. The exhaust gases are hot and can contain sparks, which may cause fire if directed against dry and combustible material.

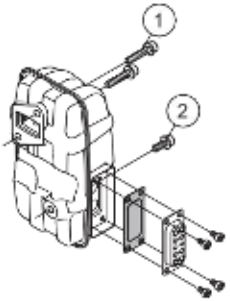
The muffler is equipped with a special spark arrestor mesh. The spark arrestor mesh should be cleaned once a month. This is best done with a wire brush.



To remove the spark arrestor mesh proceed as follows:

- Remove the exhaust duct (4, 5).
- Remove the spark arrester (3).
- Pull out the spark arrestor mesh and clean using a wire brush. Replace the spark arrestor mesh if it is defective.

CAUTION! Never use a machine with a defective muffler. Check regularly that the muffler is complete and secured correctly. **(1), (2)** Tighten the screws. 8-10Nm



Check that the spark arrester and the exhaust duct are screwed in place correctly (5). Tighten to 2-3 Nm.

WARNING! The muffler gets very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!

Cooling system



To keep the working temperature as low as possible the machine is equipped with a cooling system.

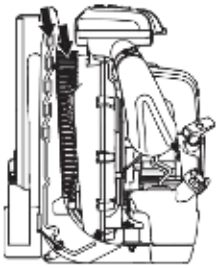
The cooling system consists of:

- Cooling fins on the cylinder.
- Air intake screen

Clean the cooling system with a brush once a week, more often in demanding conditions. A dirty or blocked cooling system results in the machine overheating which causes damage to the piston and cylinder. Check that the nozzles are not blocked.

Air intake screen

Check that the air intake is not blocked on all sides including the underside, 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.



WARNING! Never use the blower if the screen is not in place. Before use, check that the screen is in place and undamaged.

Spark plug

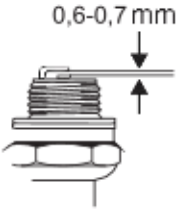


The spark plug condition is influenced by:

- Incorrect carburettor adjustment.
- An incorrect fuel mixture (too much or incorrect type of oil).
- A dirty air filter.

These factors cause deposits on the spark plug electrodes, which may result in operating problems and starting difficulties.

Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0,6-0,7 mm or replace the spark plug. Check that the spark plug is fitted with a suppressor.



CAUTION! Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/ cylinder.

Air filter



The air filter must be regularly cleaned to remove dust and dirt in order to avoid:

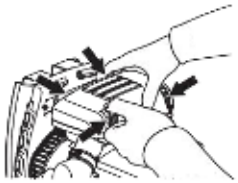
- Carburettor malfunctions.
- Starting problems.
- Loss of engine power.
- Unnecessary wear to engine parts.
- Excessive fuel consumption.

Clean the filter every 30 hours, or more regularly if conditions are exceptionally dusty.

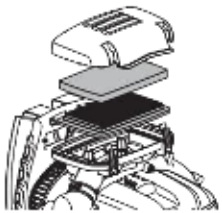
Avoid contact with hot surfaces on muffler, cylinder etc. Contact can result in burns to the skin.

Cleaning the air filter

- Loosen the two fasteners holding the air filter cover and remove the filter. Wash the prefilter in warm soapy water.



Clean the air filter. Do not clean the filter by tapping it against a hard surface. This will damage the filter. If the paper filter is still dirty it should be replaced with a new one.



NOTE!

Never use oleaginous solvent to clean the air filter.

An air filter that has been in use for a long time cannot be cleaned completely. The filter must therefore be replaced with a new one at regular intervals. **A damaged air filter must always be replaced.**

- Refit the air filter and air filter cover.

MAINTENANCE

Maintenance schedule

Below you will find some general maintenance instructions. If you need further information please contact your service workshop.

Maintenance	Daily maintenance	Weekly maintenance	Monthly maintenance
Clean the outside of the machine.	X		
Check that the throttle control functions safely.	X		
Check that the stop switch works correctly.	X		
Clean the air filter. Replace if necessary.	X		
Check that nuts and screws are tight.	X		
Check that there are no fuel leaks from the engine, tank or fuel lines.	X		
Check the fuel filter for contamination and the fuel hose for cracks or other defects. Replace if necessary.	X		
Clean or replace the spark arrestor mesh on the muffler (only applies to mufflers without a catalytic converter).	X		
Check that all sides of the air intake screen are not blocked.	X		
Check the starter and starter cord.		X	
Check that the vibration damping elements are not damaged.		X	
Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0,6-0,7 mm or replace the spark plug. Check that the spark plug is fitted with a suppressor.		X	
Clean the machine´s cooling system.		X	
Clean the outside of the carburettor and the space around it.		X	
Check all cables and connections.			X
Replace the spark plug. Check that the spark plug is fitted with a suppressor.			X
Check and clean the spark arrestor mesh on the muffler (only applies to mufflers fitted with a catalytic converter).			X
Clean the fuel tank.			X

Technical data

Technical data	421057
Engine	
Cylinder displacement, cm^3	75.6
Idle speed, rpm	2800
Max. engine output, acc. to ISO 8893, kW/ rpm	3.1 / 8000
Catalytic converter muffler	No
Speed-regulated ignition system	Yes
Ignition system	
Spark plug	CMR5H
Electrode gap, mm	0,6-0,7
Fuel and lubrication system	
Fuel tank capacity, litre	2,2
Weight	
Weight without fuel, kg	10,5
Noise emissions	
(see note 1)	
Sound power level, measured dB (A)	110
Sound power level, guaranteed L_{WA} dB (A)	110
Noise levels	
(see note 2)	
Equivalent sound pressure level at the operator's ear, measured according to EN15503 dB(A)	99
Vibration levels	
(see note 3)	
Equivalent vibration levels ($a_{hv,eq}$) at handles, measured according to EN15503, m/s^2	1,8
Fan performance	
Max. air velocity with standard nozzle, m/s:	106
Max air velocity with flat nozzle, m/s:	91
Air flow with standard nozzle, m^3/min	22
Air flow with flat nozzle, m^3/min:	24

Note 1: Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EC directive 2000/14/EC. Reported sound power level for the machine has been measured with the original cutting attachment that gives the highest level. The difference between guaranteed and measured sound power is that the guaranteed sound power also includes dispersion in the measurement result and the variations between different machines of the same model according to Directive 2000/14/EC.

Note 2: The equivalent sound pressure 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 sound pressure level for the machine has a typical statistical dispersion (standard deviation) of 1 dB(A).

Note 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/s^2.