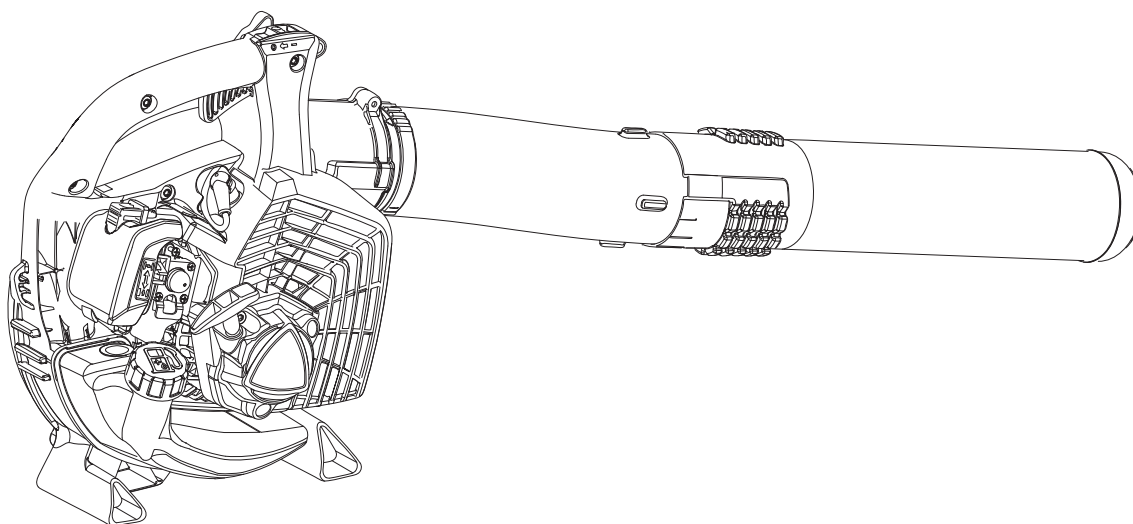




AU **ENGLISH**  
(Original instructions)



# **OPERATOR'S MANUAL**

## **POWER BLOWER**

### **PB-2520**



#### **⚠ WARNING**

**READ THE INSTRUCTIONS CAREFULLY AND FOLLOW THE  
RULES FOR SAFE OPERATION.  
FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY.**

# Important information

---

**Please ensure that you read the operator's manual before using your product.**

## ○ Intended use of this product

- ♦ ECHO Power Blowers are designed for blowing away dust of various sorts, including fallen leaves.
- ♦ Do not use this unit for any purpose other than aforementioned.

## ○ Users of the product

- ♦ You should not use this product until you have read the operator's manual carefully and fully absorbed its content.
- ♦ This product should not be used by anyone who has failed to read the operator's manual properly, is suffering from a cold, tiredness or otherwise in poor physical condition, or children.
- ♦ Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

## ○ About your operator's manual

- ♦ This manual contains necessary information about the assembly, operation, and maintenance of your product. Please read it carefully and absorb its contents.
- ♦ Always keep your manual in a place where it is readily accessible.
- ♦ If you have lost your manual or it is damaged and no longer readable, please purchase a new one from your ECHO DEALER.
- ♦ The units used in this manual are SI units (International System of Units). Figures in parentheses are reference values, and there may be a slight conversion error in some cases.

## ○ Loaning or assigning your product

- ♦ When loaning the product described in this manual to another party, ensure that the person borrowing and working with the product receives the operator's manual along with the product. If you assign your product to another party, please enclose the operator's manual with the product when handing it over.

## ○ Enquiries

- ♦ Please contact your ECHO DEALER for requests regarding information about your product, the purchase of consumables, repairs, and other such enquiries.

## ○ Notices

- ♦ The content of this manual may be changed without notice for the purpose of upgrades to the product. Some of the illustrations used may differ from the product itself in order to make the explanations clearer.
- ♦ This product requires the assembly of some parts.
- ♦ Please consult your ECHO DEALER if anything is unclear or of concern.

- ♦ Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- ♦ For warranty service, find the nearest Authorised Service Dealer in our dealer locator map at [www.echo-australia.com.au/en\\_au/finder](http://www.echo-australia.com.au/en_au/finder), or by calling 1300 274 447, or by emailing or writing to [salesenquires@briggsandstratton.com.au](mailto:salesenquires@briggsandstratton.com.au), Briggs & Stratton Australia Pty Ltd, Locked bag 5004, St Clair, NSW 2759.

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# For safe use of your product

## Be careful to read this section before using your product.




○ The precautions described in this section contain important safety information. Please observe them carefully.

○ You must also read the precautions that appear in the body of the manual itself.

Text following a [diamond mark] mark describes the potential consequences of failing to observe the precaution.


## Warning notices

Situations where there is a risk of physical injury to the operator and other people are indicated in this manual and on the product itself by the following warning notices. Always read and observe them carefully in order to ensure safe operation.

 <b>DANGER</b>	 <b>WARNING</b>	 <b>CAUTION</b>
This symbol accompanied by the word <b>"DANGER"</b> calls attentions to an act or a condition which will lead to serious personal injury or death of operators and bystanders.	This symbol accompanied by the word <b>"WARNING"</b> calls attentions to an act or a condition which can lead to serious personal injury or death of operators and bystanders.	<b>"CAUTION"</b> indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.











## Other indicators

As well as warning notices, this manual uses the following explanatory symbols:





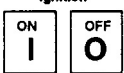


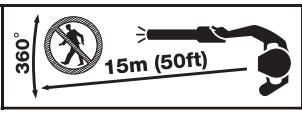

	Circle and slash symbol means whatever is shown is prohibited.	<b>NOTE</b>	<b>IMPORTANT</b>
		This enclosed message provides tips for use, care and maintenance of the product.	Framed text featuring the word <b>"IMPORTANT"</b> contains important information about the use, checking, maintenance and storage of the product described in this manual.

## Symbols

In this manual and on the product itself, a series of explanatory symbols is used. Please make sure that you fully understand what each symbol means.

Symbol form/shape	Symbol description/application	Symbol form/shape	Symbol description/application
	Carefully read the operator's manual		Petrol and oil mixture
	Wear eyes, ears and head protection		Purge bulb (Primer)
	Safety / Alert		Emergency stop
	Finger Severing		Carburettor adjustment - Idle speed
	Do not use the product in places with poor ventilation		Choke Control "Cold Start" Position (Choke Closed)

# For safe use of your product

Symbol form/shape	Symbol description/applica- tion	Symbol form/shape	Symbol description/applica- tion
	Beware of fire		Choke Control "Run" Position (Choke Open)
	Beware of electric shocks		Guaranteed sound power lev- el
	Ignition ON / OFF		Beware of high-temperature areas
	Engine start		Keep bystanders away 15 m
	Beware of thrown objects		

# For safe use of your product

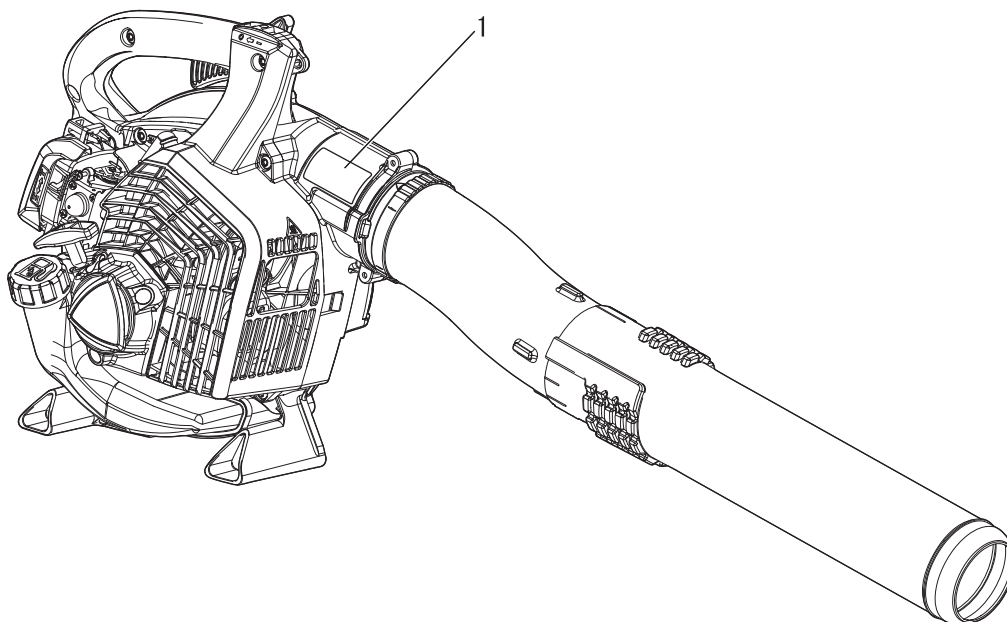
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## Location in which the safety decal is attached

- ♦ The safety decal shown below has been attached to the product described in this manual. Ensure that you understand what the decal means before using your product.
- ♦ If the decal becomes unreadable due to wear and tear or damage, or peels off and is lost, please purchase a replacement decal from your ECHO DEALER and attach it in the location shown in the illustrations below. Ensure that the decal is readable at all times.



1. Safety decal (Part number X505010760)



# For safe use of your product

## Handling fuel

### DANGER

#### Always keep well away from fire when refuelling

Fuel is highly inflammable and leads to a risk of fire if mishandled. Use extreme care when mixing, storing or handling or serious personal injury may result. Be careful to observe the following instructions.

- Do not smoke or hold a flame near when refuelling.
- Do not fuel up while the engine is hot or in operation.
- ◆ If you do so, the fuel could ignite and cause fire, leading to burns.



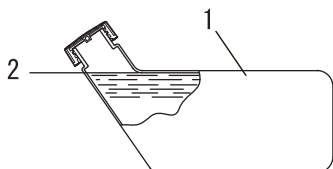
#### About the container and refuelling place

- Use an approved fuel container.
- Fuel tanks/cans may be under pressure.  
Always loosen fuel caps slowly allowing pressure to equalize.
- DO NOT fill fuel tanks indoors.  
ALWAYS fill fuel tanks outdoors over bare ground.

#### Fuel spills can cause fire

Observe the following precautions when refuelling:

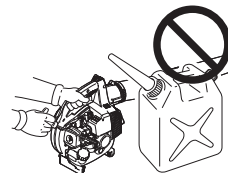
- Do not add so much fuel that it reaches the mouth of the fuel tank. Keep the fuel within the prescribed level (up to the shoulder level of the fuel tank).
- Mop up any fuel that overflows or spills out due to over-filling.
- Tighten the fuel tank cap securely after refuelling.
- ◆ Fuel spills can cause fire and burns when ignited.



- 1. Fuel tank
- 2. Shoulder level

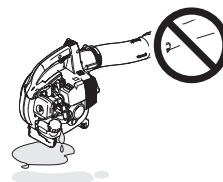
#### Do not start the engine in the area where you refuelled

- You must not start the engine in the place where you carried out the refuelling. Move at least 3m from the place where you refuelled before starting the engine.
- ◆ Fuel leaks that occur while refuelling can cause fire if ignited.



#### Fuel leaks cause fire

- After refuelling, always check that there are no leaks or discharges of fuel from the fuel pipe, fuel system grommets, or around the fuel tank cap.
- If you do find fuel leaks or discharges, stop using the product immediately and contact your ECHO DEALER to have it repaired.
- ◆ Any fuel leaks could cause fire.



# For safe use of your product

## Handling the engine

### WARNING

#### Starting the engine

Be particularly careful to observe the following precautions when starting the engine:

- Check that none of the nuts and bolts are loose
- Check that there are no fuel leaks
- Place the product in a flat, well ventilated place
- Leave plenty of space around the product and do not allow people or animals near it
- Remove obstructions, if any
- Start the engine with the throttle lever in the start/operation position
- Hold the product firmly to the ground when starting the engine
- ◆ Failure to observe the precautions could cause an accident or injury, or even lead to a fatality.

#### Once the engine has started, check for abnormal vibrations and sounds

- Check that there are no abnormal vibrations or sounds once the engine starts. Do not use the product if there are abnormal vibrations or sounds. Contact your ECHO DEALER to have it repaired.
- ◆ Accidents involving parts that fall or shatter off can cause wounds or serious injury.

#### Do not touch high temperature or high voltage components while the product is running

Do not touch the following high temperature or high voltage components while the product is running or for some time after it stops.

- Silencer, cylinder, and other high temperature components
- ◆ You could burn yourself if you touch a high temperature component.
- Spark plug, spark plug wire, and other high voltage components
- ◆ You could receive an electric shock if you touch a high voltage component while the product is running.



#### Put safety first in the case of fire or smoke

- If fire comes from the engine or smoke appears from any area other than the exhaust vent, first distance yourself from the product to ensure your physical safety.
- Use a shovel to throw sand or other such material on the fire to prevent it from spreading, or put it out with a fire extinguisher.
- ◆ A panicked reaction could result in the fire and other damage becoming more extensive.



#### Exhaust fumes are toxic

- The exhaust fumes from the engine contain toxic gases. Do not operate the product indoors or in a plastic greenhouse or in other ill ventilated places.
- In case of conducting the work near the house, do not conduct the work near the opened window. There is the possibility that the exhaust fumes come into the house.
- ◆ The exhaust fumes could cause poisoning.



#### Turn off the engine when checking or maintaining the product

Observe the following precautions when checking and maintaining your product after use:

- Turn the engine off and do not attempt to check or maintain the product until the engine has cooled
- ◆ You could burn yourself.
- Remove the spark plug cap before performing checks and maintenance
- ◆ An accident could occur if the product starts unexpectedly.

#### Checking the spark plug

Observe the following precautions when checking the spark plug.

- If the electrodes or terminals are worn, or if there are cracks in the ceramics, replace them with new parts.
- The spark test (for checking whether the spark plug is sparking) must be carried out by a professional. Please ask your ECHO DEALER.
- The spark test must not be carried out in proximity of the spark plug hole.
- The spark test must not be performed in places where there are fuel spills or inflammable gases
- You must not touch the metal parts of the spark plug

- ◆ The spark plug could ignite a fire or give you an electric shock.





# For safe use of your product

## Handling the product General precautions

### **WARNING**

#### **Operator's manual**

- Be careful to read the operator's manual properly before using your product in order to ensure correct operation.
- ◆ Failure to do so could lead to an accident or serious injury.



#### **Do not use the product for anything other than its intended purpose**

- You must not use the product for any purpose other than those described in the operator's manual.
- ◆ To do so could lead to an accident or serious injury.

#### **Do not modify the product**

- You must not modify the product.
- ◆ To do so could lead to an accident or serious injury. Any malfunction resulting from a modification to the product will not be covered by the manufacturer's warranty.

#### **Do not use the product unless it has been checked and maintained**

- You must not use the product unless it has been checked and maintained. Always ensure that the product is checked and maintained on a regular basis.
- ◆ Failure to do so could lead to an accident or serious injury.

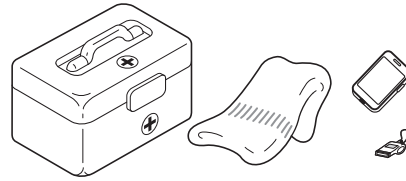
#### **Loaning or assigning your product**

- When loaning your product to another party, ensure that the person borrowing the product receives the operator's manual along with it.
- If you assign your product to another party, please enclose the operator's manual with the product when handing it over.
- ◆ Failure to do so could lead to an accident or serious injury.

#### **Being prepared in case of an injury**

In the unlikely event of an accident or injury, please ensure that you are prepared.

- First aid kit
- Towels and wipes (to stop any bleeding)
- Whistle or mobile phone (for calling outside help)
- ◆ If you are unable to perform first aid or call for outside help, the injury could worsen.



# For safe use of your product

## Precautions for use

### WARNING

#### Users of the product

The product should not be used by:

- people who are tired
- people who have taken alcohol
- people who are on medication
- people who are pregnant
- people who are in poor physical condition
- people who have not read the operator's manual
- children

◆ Failure to observe these instructions could lead to an accident.

- The ignition system of this product generates electromagnetic fields during operation. Magnetic fields can cause pacemaker interference or pacemaker failure. To reduce health risks, we recommend that pacemaker users consult their physician and the pacemaker manufacturer before operating this product.



#### Environment of use and operation

- Do not use the product in places where there is no sure foothold, such as on steep slopes or after rainfall, as such places are slippery and dangerous.
- Do not operate the product at night or in dark places with poor visibility.
- ◆ A serious injury could result if you fall or slip, or fail to operate the product correctly.

#### The area within a 15 m radius is a danger zone

The area within a 15 m radius of the product is a danger zone. Be careful to observe the following precautions while working with the product.

- Do not allow children and other people or pets to enter the danger zone.
- If another person enters the danger zone, turn off the engine.
- When approaching the operator, signal to him by, for example, throwing twigs from outside the danger zone, and then check that engine has been switched off.
- If more than one person is working with the product, identify the way in which you will signal to each other and work at least 15 m apart.
- ◆ Thrown objects could cause serious injury to the operator or bystanders.

#### Using the product

When using the product, pay special attention to observe the following precautions.

- Do not allow people who are irrelevant to the work conducted or animals to be in the worksite.
- Do not point the blower pipe at people or animals.
- Do not use the product in places where there is no sure foothold.
- Hold the handle tightly.
- Avoid using the product late at night or early in the morning so that the neighbors will not be disturbed by noise.

◆ Failure to observe these instructions could lead to an accident or injury.

#### Turn off the engine when moving around

When moving around in the situations described below, turn off the engine.

- Moving to the place where you are working
- Moving to another area while you are working
- Leaving the place where you have been working
- ◆ Failure to observe these precautions could cause burns or serious injury.
- When transporting the product by car, empty the fuel tank, put the product in the upright position, and secure it firmly in place to prevent it from moving around.
- ◆ Travelling by car with fuel in the fuel tank could lead to a fire.

#### Be careful not to get caught in the fan

- Be careful not to get your hair caught in the fan.
- ◆ The wind suction from the fan could make your hand and anything being caught in the fan, resulting in a serious injury.

#### Vibration and cold

It is believed that a condition called Raynaud's Phenomenon which affects the fingers of certain individuals may be brought about by exposure to vibration and cold. Exposure to vibration and cold may cause tingling and burning, followed by loss of colour and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.

- Keep your body warm, especially the head and neck, feet and ankles, and hands and wrists.
- Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks, and also by not smoking.
- Limit the number of hours of operation.  
Try to fill each day with jobs where operating the blower or other hand-held power equipment is not required.
- If you experience discomfort redness and swelling of the fingers, followed by whitening and loss of feeling, consult your physician before exposing yourself further to cold and vibration.
- ◆ Failure to observe these instructions could result in damage to your health.

# For safe use of your product

## WARNING

### Repetitive stress injuries

It is believed that over-using the muscles and tendons of the fingers, hands, arms and shoulders may cause soreness, swelling, numbness, weakness and extreme pain to the areas just mentioned. Certain repetitive hand activities may put you at a high risk for developing a repetitive stress injury (RSI).

To reduce the risk of RSI, do the following:

- Avoid using your wrist in a bent, extended or twisted position.
- Take periodic breaks to minimize repetition and rest your hands. Reduce the speed and force in which you do the repetitive movement.
- Do exercises to strengthen hand and arm muscles.
- See a doctor if you feel tingling, numbness or pain in your fingers, hands, wrists or arms. The sooner RSI is diagnosed, the more likely permanent nerve and muscle damage can be prevented.
- ◆ Failure to observe these instructions could result in damage to your health.

### Turn off the engine immediately if anything goes wrong

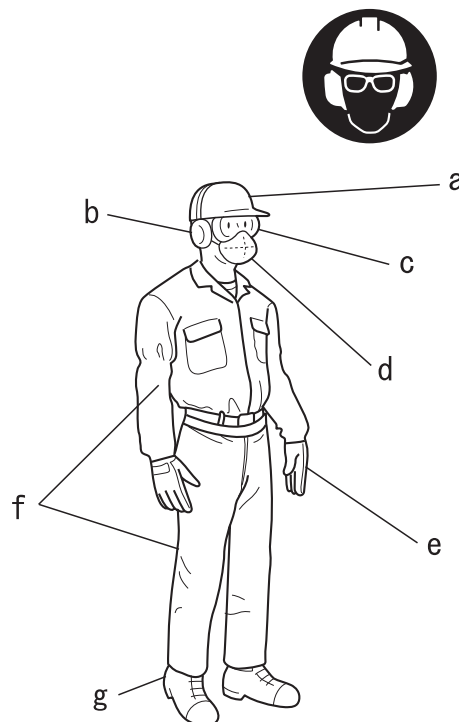
- Turn off the engine immediately if the product suddenly starts to emit abnormal sounds or vibrate abnormally. The product cannot be used when it suffers from abnormal vibration or sounds. Contact your ECHO DEALER for repair.
- ◆ Continuing to use parts when they are damaged could lead to an accident or serious injury.

## Protective gear

## WARNING

### Wear protective gear

- Wear appropriate work clothes and protective gear when working with the power blower. Above all, make sure to wear safety goggles, a dust mask, and ear muffs at all times while working.
- ◆ Without the protective gear, you could inhale the debris or dust blown away or get them in your eyes, which could lead to an accident or injury.
- a **Head protection (helmet):** Protects the head
- b **Ear muffs or ear plugs:** Protect the hearing
- c **Safety goggles:** Protect the eyes
- d **Dust mask**
- e **Safety gloves:** Protect the hands from cold and vibration
- f **Work clothes that fit (long sleeves, long trousers):** Protect the body
- g **Heavy duty, non-slip protective boots (with toecaps) or non-slip work shoes (with toecaps):** Protect the feet
- ◆ Failure to observe these precautions could result in damage to your sight or hearing, or lead to a serious injury.



### Wear proper clothing

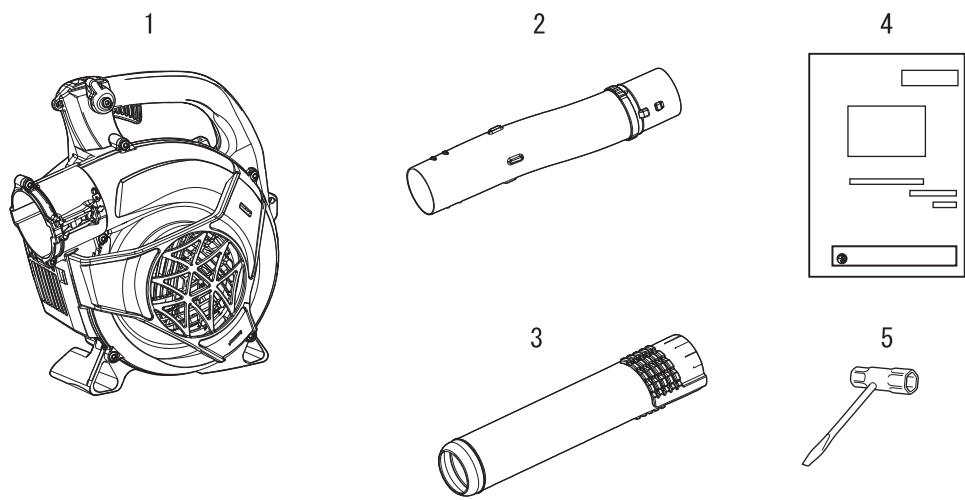
Do not wear ties, jewellery, or loose, dangling clothing which could be caught in the unit. Do not wear open toed footwear, or go bare-foot or barelegged. In certain situations, total face and head protection may be required.

- ◆ Failure to observe these precautions could result in damage to your sight or hearing, or lead to a serious injury.

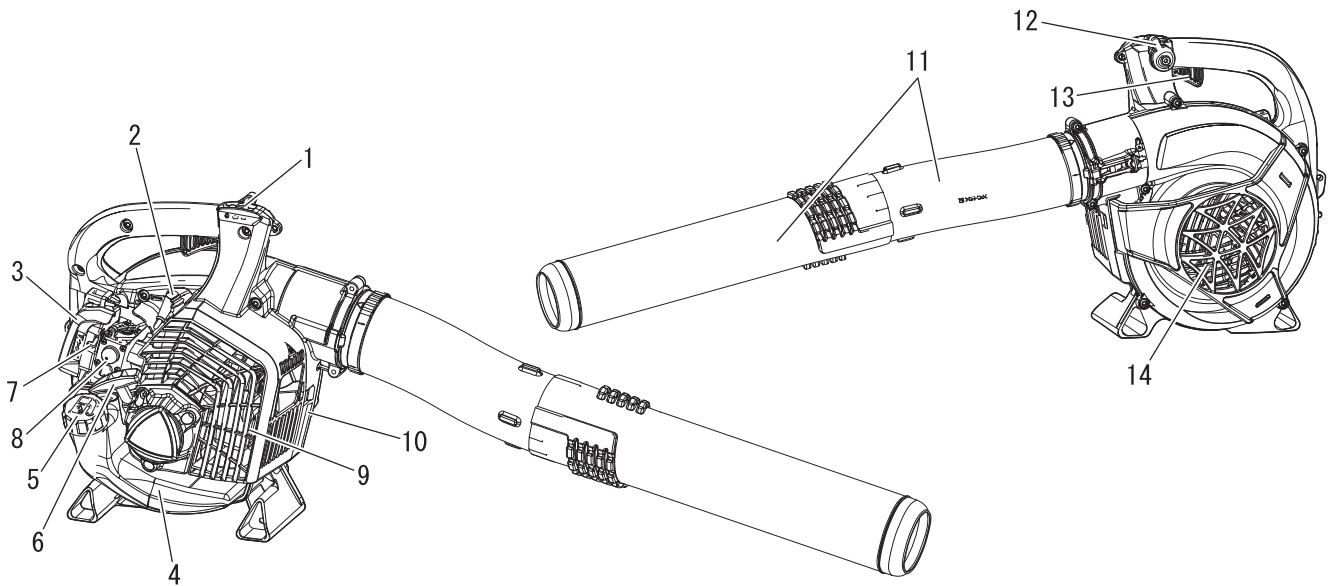




# Packing list

- The following parts are packed separately in the packing box.
- When you have unpacked the box, please check the parts that it contains.
- Contact your ECHO DEALER if anything is missing or broken.



Number	Part name	Quantity	Number	Part name	Quantity
1	Power Head	1	4	Operator's Manual	1
2	Blower Pipe	1	5	T-Wrench	1
3	Round Straight Nozzle	1			



1. **Stop switch "SLIDE SWITCH"** mounted on top of handle. Push forward to start and run. Slide back to stop.
2. **Spark plug** Provides spark to ignite fuel mixture.
3. **Air cleaner** Contains replaceable air filter element.
4. **Fuel tank** Contains fuel and fuel filter.
5. **Fuel tank cap** Covers and seals fuel tank.
6. **Starter handle** Pull recoil handle slowly until recoil starter engages, then quickly and firmly. When engine starts, return handle slowly. DO NOT let handle snap back or damage to unit will occur.
7. **Choke** Choke is located on top of the air cleaner. Move choke lever to  position to close choke for cold starting. Move choke lever to  position to open choke.
8. **Purge bulb** Pumping purge bulb before starting engine draws fresh fuel from the fuel tank, purging air from the carburettor. Pump purge bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump purge bulb an additional 4 or 5 times.

9. **Spark arrestor - Catalytic silencer / Silencer** The silencer or catalytic silencer controls exhaust noise and emission. The spark arrestor screen prevents hot, glowing particles of carbon from leaving the silencer. Keep exhaust area clear of flammable debris.
10. **Type and serial number.**
11. **Blower pipes** Exclusive positive locking system.
12. **Throttle position lever (Throttle setting device)** Pull back to increase engine speed. Friction washers maintain throttle lever setting.
13. **Throttle trigger** Spring loaded to return to idle when released. During acceleration, press trigger gradually for best operating technique.
14. **Housing cover** Covers blade area.

# Before you start

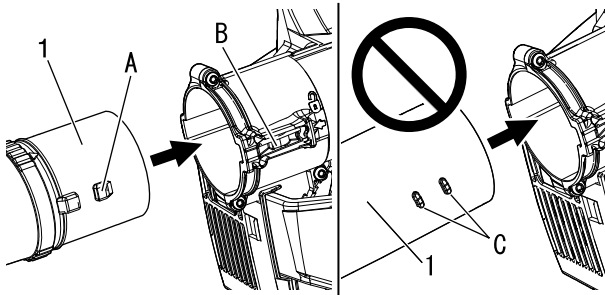
## Assembly

### WARNING

- Read the operator's manual carefully to ensure that you assemble the product correctly.
- Never perform maintenance or assembly procedures with engine running.
- ◆ Using a product that has been incorrectly assembled could lead to an accident or serious injury.

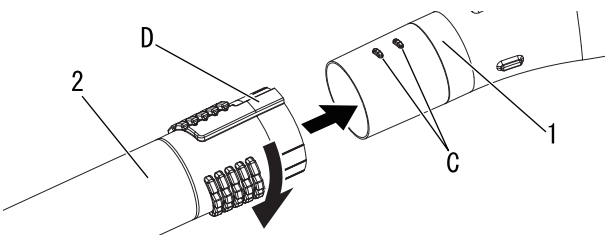


### Install blower pipes



1. Blower pipe

1. Stand unit upright on blower base.
  2. Align large locking ribs (A) on curved blower pipe with pipe lock (B) in fan case. Slide curved blower pipe into fan case until a clicking sound is heard.
- \* Do not assemble the opposite end of the curved blower pipe to the fan case.



1. Blower pipe

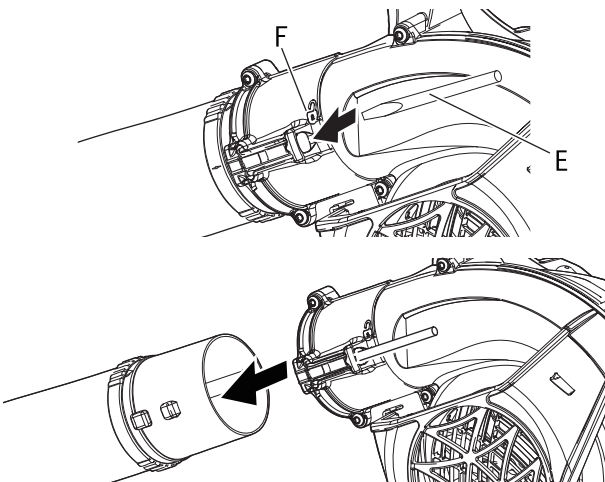
2. Round straight nozzle

3. Align tabs (C) with grooves (D) and slide the round straight nozzle over the blower pipe until there is light resistance. Do not force connection.
4. Hold the blower pipe, and turn the round straight nozzle clockwise, engaging positive locking channels until connection is firm. Do not force connection.

### NOTE

Blower use will eventually loosen pipe connections. Exclusive positive locking system allows pipes to be tightened. If loosening occurs, remove the round straight nozzle and install according to instructions 3 & 4.

### Remove blower pipes



1. Insert screwdriver (E) into hole located near lock symbol (F) to release pipe lock.
2. Pull pipes out of fan case.
3. Remove screwdriver.

# Before you start

## Preparing the fuel

### DANGER

- Fuel is highly inflammable and there is a risk of fire if it is handled incorrectly. Carefully read and observe the precautions in the section of this manual titled "For safe use of your product".
- Once the refuelling is complete, securely tighten the fuel tank cap and do not forget to check that there are no leaks or discharges of fuel from the fuel pipe, fuel system grommets, or around the fuel tank cap. If you do find fuel leaks or discharges, stop using the product immediately and contact your ECHO DEALER to have it repaired.
- ◆ If the fuel ignites, it could cause burns and fire.



### CAUTION

- There is difference in pressure between the fuel tank and the outside air. When refuelling, loosen the fuel tank cap slightly to eliminate the difference in pressure.
- ◆ Otherwise, fuel may get spewed.

### NOTE

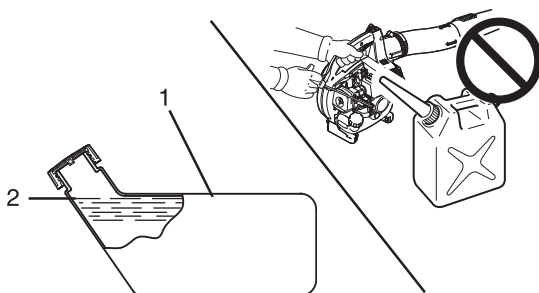
Stored fuel ages. Do not mix more fuel than you expect use in thirty (30) days. Do not mix directly in fuel tank.

## Fuel



- ◆ Fuel is a mixture of regular grade petrol and an air-cooled 2-stroke engine oil.  
Minimum 89 Octane unleaded petrol is recommended. Do not use fuel containing methyl alcohol or more than 10 % of ethyl alcohol.
- ◆ Recommended mixture ratio; 50 : 1 (2 %) for ISO-L-EGD Standard (ISO 13738), JASO FC,FD grade and ECHO recommended oil.
  - Never use two-stroke oil intended for water-cooled engines, motor-cycle engines.
  - Do not mix directly in engine fuel tank.
  - Avoid spilling petrol or oil. Spilled fuel should always be wiped up.
  - Handle petrol with care, it is highly inflammable.
  - Always store fuel in approved container.

## Fuel supply



1. Fuel tank

2. Shoulder level

- ◆ Fill the fuel tank outdoors over bare ground and install the fuel cap securely. Do not pour fuel indoors.
- ◆ Place the product and the refuelling tank on the ground when performing the refuelling operation. Do not refuel the product on the loading platform of a truck, or in other such places.
- ◆ Always ensure that the fuel level remains below the shoulder level of the fuel tank when refuelling.
- ◆ There is a difference in pressure between the fuel tank and the outside air. When refuelling, loosen the fuel tank cap slightly to eliminate the difference in pressure.
- ◆ Always wipe up any fuel spills.
- ◆ Move at least 3m away from where you refuelled before you start the engine.
- ◆ Keep the refuelling tank in a shaded area away from fire.



# Engine operation

## Starting the engine

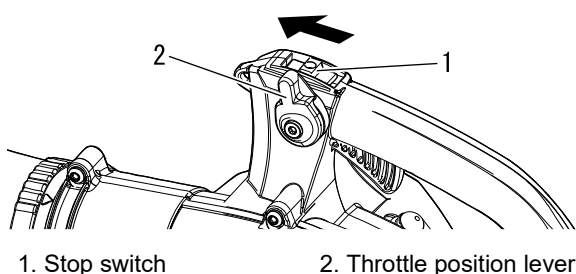
### WARNING

- When starting the engine, observe the precautions described from Page 4 in the section "For safe use of your product" to ensure that you operate the product correctly.
- ◆ Failure to observe the precautions could cause an accident or injury, or even lead to a fatality.

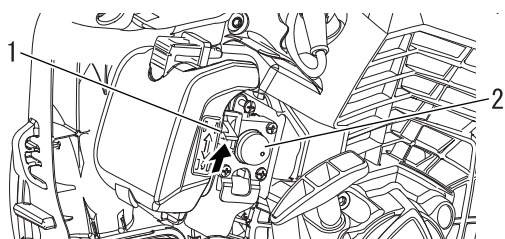
### NOTE

- ◆ Pull out the starter grip gently at first, and then more rapidly. Do not pull the starter rope out to more than 2/3 of its length.
- ◆ Do not let go of the starter grip as it returns.
- ◆ To start the engine, return the choke knob when you hear the first explosion-like sound and pull on the starter grip again. Be careful not to miss the first explosion-like sound.

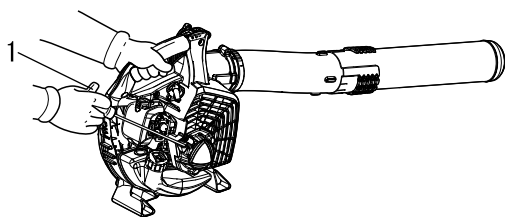
## Starting a cold engine



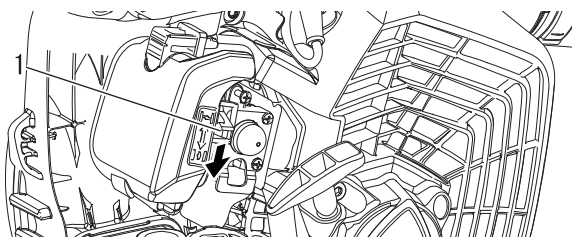
1. Stop switch                      2. Throttle position lever



1. Choke                              2. Purge bulb



1. Recoil starter



1. Choke

- ◆ Recoil starter: Use short pulls - only 1/2-2/3 of rope length for starting. Do not allow the rope to snap back in. Always hold the unit firmly.

1. *Stop Switch*  
Move stop switch away from the STOP position.
2. *Throttle Position Lever*  
Move throttle position lever midway between idle and full throttle positions.
3. *Choke*  
Move choke lever to "I" position.
4. *Purge Bulb*  
Pump purge bulb until fuel is visible and flows freely in the clear fuel tank return line.

5. *Recoil Starter*  
Place the blower on a flat, clear area. Hold the blower firmly with left hand and pull out the starter grip gently at first, and rapidly pull recoil starter handle/rope until engine fires, or maximum 5 pulls.

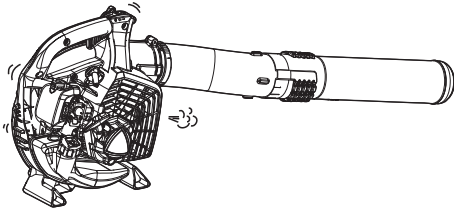
6. *Choke*  
Move choke lever to "II" position and if necessary, restart engine. If engine does not start after 5 pulls, repeat instructions 3-6.

7. *Engine start*  
Allow engine to warm up before use.



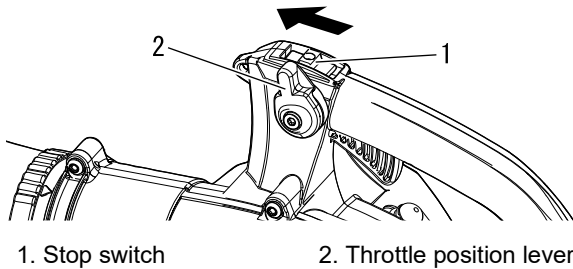
# Engine operation

## Engine warm-up



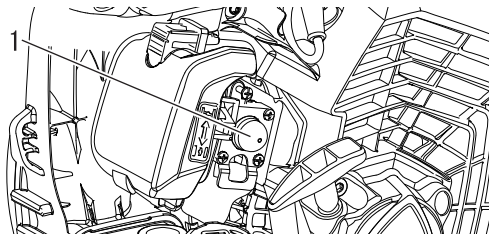
1. Once the engine starts, allow it to warm up for 2 to 3 minutes at idling (i.e. low speed).
2. Warming the engine helps to lubricate its internal workings more smoothly. Allow the engine to warm up fully, especially when it is cold.
3. Never run the engine without the blower pipes fitted.

## Starting a warm engine

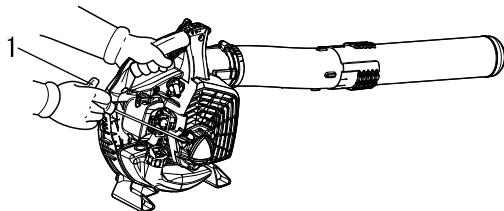


- ♦ The starting procedure is the same as Cold Start except DO NOT close the choke.

1. **Stop Switch**  
Move stop switch away from the STOP position.
2. **Throttle Position Lever**  
Move throttle position lever midway between idle and full throttle positions.

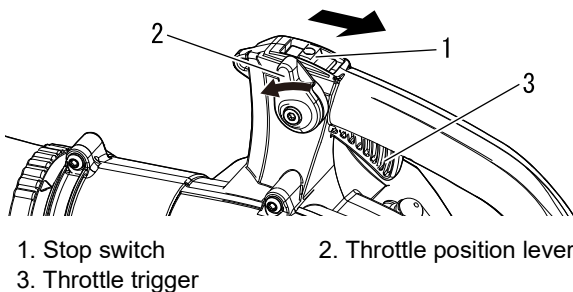


3. **Purge Bulb**  
Pump purge bulb until fuel is visible and flows freely in the clear fuel tank return line.




4. **Recoil Starter**  
Place the unit on a flat, clear area. Firmly grasp throttle grip with left hand and pull out the starter grip gently at first, and rapidly pull recoil starter handle/rope until engine fires. If engine does not start after 5 pulls, use cold start procedures.

## Stopping the engine



1. **Throttle Position Lever**  
Release throttle trigger. Move throttle position lever forward to idle position and allow engine to return to idle before shutting off engine.
2. Move stop switch to STOP position.

### **WARNING**

If engine does not stop when stop switch is moved to STOP position, close choke -  position - to stall engine. Have your ECHO dealer repair stop switch before using blower again.

# Operation

## Operating blower

### WARNING

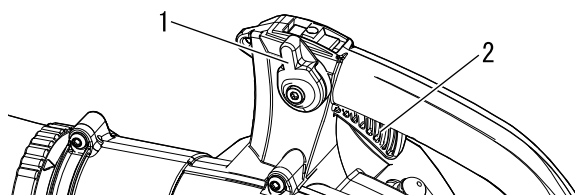
Always wear safety glasses, hearing protection, face filter mask and take all safety precautions or serious personal injury may result. Do not point the blower pipe in the direction of people or pets.

### IMPORTANT

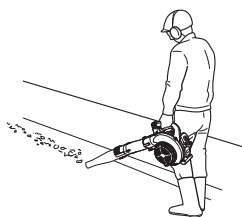
To avoid engine damage due to over revving, do not block blower pipe opening.

### NOTE

Never use a higher speed setting than necessary to perform a task. Remember, the higher the engine speed, the louder the blower noise. Minimize dust by using blower at lower speeds. Keep debris on your property. Be Smart - be a good neighbor.



1. Throttle position lever    2. Throttle trigger



♦ Read the Safety Section carefully.

1. Use only during appropriate hours.
2. Allow the engine to warm up for a few minutes.
3. Control engine speed with throttle trigger, or for continuous use, set engine speed with throttle position lever. Rotate throttle position lever forward for lower speed, back for higher speed.
4. Set engine speed with throttle position lever.
5. Use lower speed to blow dry grass and leaves from walks, patios and drives.
6. Additional speed may be necessary to clean leaves from a lawn or flowerbed.
7. Higher speed may be necessary to move gravel, dirt, snow, bottles or cans from a driveway, street, parking lot or stadium.
8. When working near a house, do not blow air towards open windows. Debris could be blown into window.
9. Using the longest pipe extension assures the air stream will reach the ground more efficiently.
10. Loosen or break up debris with a rake to make debris easier to move.
11. Dampen dusty areas before moving debris to reduce airborne dust.
12. Always stop unit using stop engine procedure.

# Maintenance and care

## Servicing guidelines

Area	Maintenance	Page	Before use	Monthly
Throttle connecting rod	Grease	19	•	
Air filter	Inspect / Clean / Replace	20	•	
Fuel filter	Inspect / Replace	20	•	
Spark plug	Inspect / Clean / Adjust / Replace	23		•
Carburettor	Inspect	21		•
Cooling system	Inspect / Clean	21	•	
Exhaust system	Inspect / Tighten / Clean	22	•	
Starter	Inspect	-	•	
Fuel system	Inspect	-	•	
Screws, bolts and nuts	Inspect / Tighten / Replace	-	•	

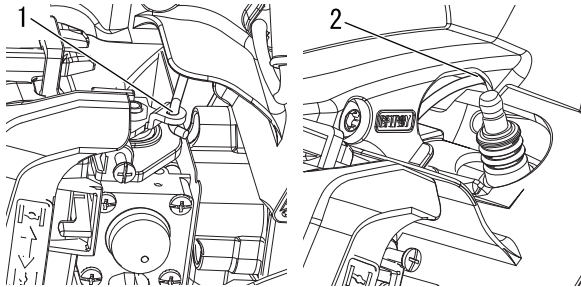
## IMPORTANT

Time intervals are maximum. Actual use and your experience will determine the frequency of required maintenance.

## Maintenance and care

If you have any questions or problems, please contact your ECHO DEALER.

### Throttle connecting rod



1. Lubrication position  
(Carburettor)

2. Lubrication position  
(Fan case)

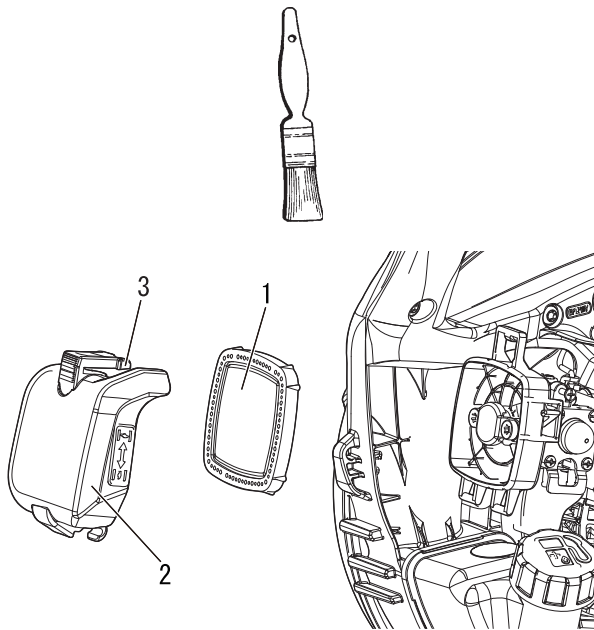
Tools required:None

Parts required:Lithium based grease

1. Remove spark plug cap from spark plug.
2. Apply grease to throttle connecting rod at location.
  - ♦ Carburettor and throttle connecting rod assembling portion.
  - ♦ Contact portion of fan case and throttle connecting rod.

# Maintenance and care

## Cleaning air filter



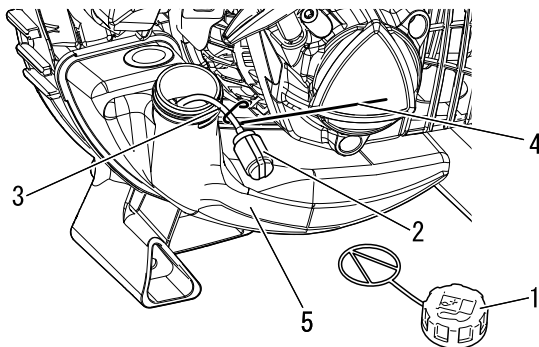
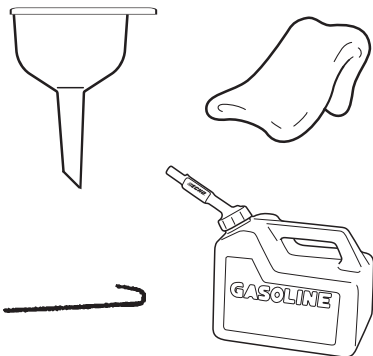
1. Air filter  
3. Filter cover latch

2. Air filter cover

Tools required: 25-50 mm (1-2 in.) Cleaning brush  
Parts required: Air filter

1. Close choke (⚡). This prevents dirt from entering the carburettor throat when the air filter is removed. Brush accumulated dirt from air cleaner area.
2. Release the filter cover latch, and remove air filter cover. Brush dirt from inside cover.
3. Remove air filter and lightly brush debris from filter. Replace filter if it is damaged, fuel soaked, very dirty, or the rubber sealing edges are deformed. Clean the filter with a neutral detergent. Do not use solvents for cleaning.
4. Dry them completely before installation.
5. If filter can be reused, be certain it:
  - ♦ The entire frame of the filter is securely seated in the housing.
  - ♦ It is installed with the original side out.
6. Install air filter cover, and engage filter cover latch.

## Replacing fuel filter



1. Fuel cap  
3. Fuel line  
5. Fuel tank

2. Fuel filter  
4. Fuel line hook

Tools required: 200-250 mm (8-10 in.) length of wire with one end bent into a hook, clean rag, funnel, and an approved fuel container  
Parts required: Fuel line and filter

### DANGER

Fuel is VERY flammable. Use extreme care when mixing, storing or handling.

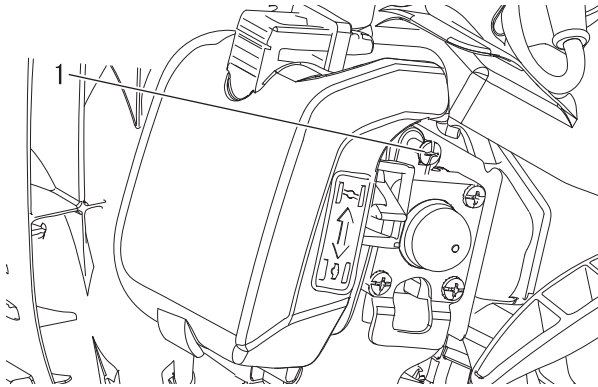
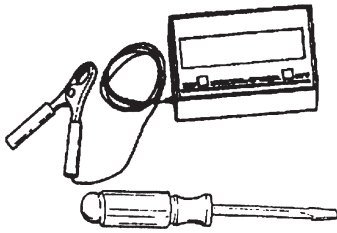
### NOTE

If filter is excessive dirty or no longer fits properly, replace it.

1. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.
2. Use the "fuel line hook" to pull the fuel line and filter from the tank.
3. Remove the filter from the line and install the new filter.

# Maintenance and care

## Carburettor adjustment



1. Screw

### CAUTION

When there is trouble with the carburettor, contact your ECHO DEALER.

Tools required: Screwdriver, tachometer  
Parts required: None

### NOTE

Every unit is run at the factory and the carburettor is set in compliance with Emission Regulations. This carburettor does not have acceleration and high speed adjustment needles.

#### Before Adjustment

Check that:

- Air filter is clean and properly installed.
- Spark arrestor screen is free of carbon.
- Blower pipes are installed.

- Start engine, run at idle for one minute.
- Complete warm up by running at full throttle for 5 minutes, operating choke twice to clear air from carburettor chambers.
- Check idle speed and reset if necessary. If a tachometer is available, idle speed screw should be set to the specifications found on Page 26 "Specifications" of this manual. Turn idle screw clockwise to increase idle speed; counter clockwise to decrease idle speed.

## Cooling system maintenance

### IMPORTANT

To maintain proper engine operating temperature, cooling air must pass freely through the cylinder fin area. This flow of air carries combustion heat away from the engine.

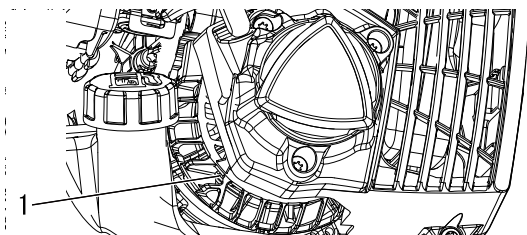
Overheating and engine seizure can occur when:

- Air intakes are blocked, preventing cooling air from reaching the cylinder, or
  - Dust and grass build up on the out side of the cylinder. This build-up insulates the engine and prevents the heat from leaving.
- Removal of cooling passage blockages or cleaning of cylinder fins is considered "Normal Maintenance". Any resultant failure attributed to lack of maintenance is not warranted.

Tools required: Cleaning brush, Compressed air  
Parts required: None

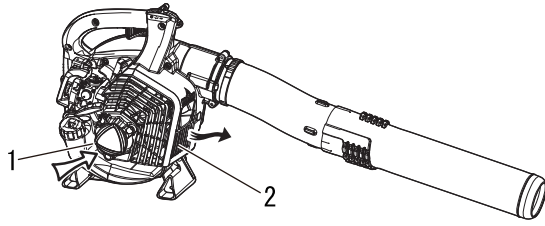
#### Cleaning Grill

- Brush accumulated debris from crankcase intake grill above the fuel tank.



1. Intake grill

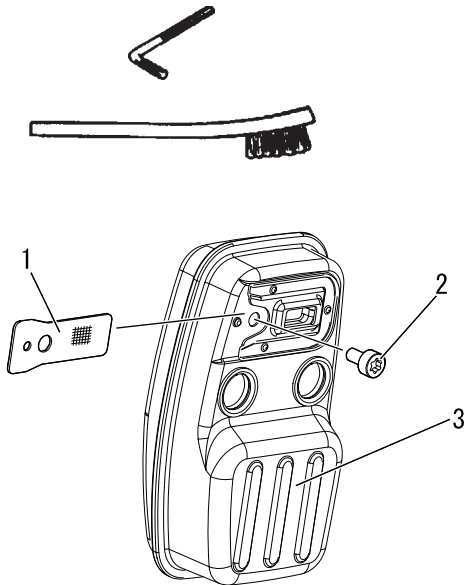
# Maintenance and care



1. Intake grill

2. Discharge grill

## Exhaust system



1. Spark arrestor screen  
3. Silencer

2. Bolt

## Cleaning Cylinder Fins

1. Blow compressed air through crankcase intake grill and discharge grill.

## Spark Arrestor Screen

Tools required: Torx L-wrench T27, Cleaning brush  
Parts required: Spark arrestor screen

### IMPORTANT

Carbon deposits in silencer will cause a drop in engine output and overheating. Spark arrestor screen must be checked periodically.

1. Remove a bolt.
2. Remove spark arrestor screen from silencer. Replace screen if plugged with carbon deposits.
3. Install spark arrestor screen.
4. Tighten a bolt and screws securely.

### NOTE

When cleaning carbon deposits, be careful not to damage the catalytic element inside silencer.

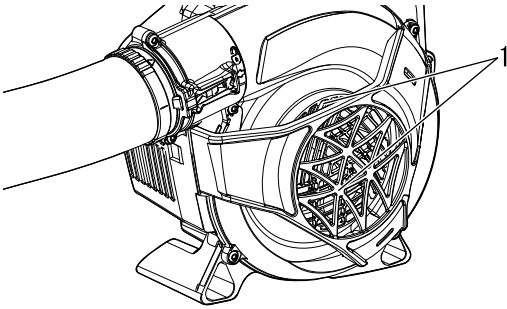
## Cylinder Exhaust Port

### IMPORTANT

The cylinder exhaust port must be inspected and cleaned of excess carbon every 3 months or 90 hours of operation in order to maintain this engine within the emissions durability period. ECHO strongly recommends that you return your unit to your ECHO dealer for this important maintenance service.

# Maintenance and care

## Cleaning housing cover



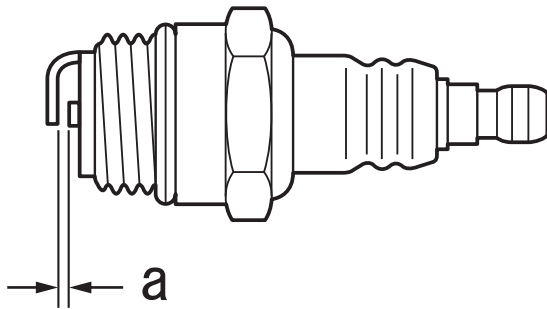
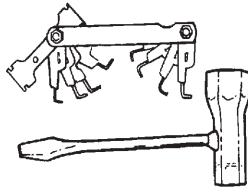
1. Housing cover

Remove dust of various sorts, including fallen leaves blocking the housing cover.

### IMPORTANT

Do not remove the housing cover. If necessary, Please consult your dealer.

## Check spark plug



a: 0.6 - 0.7 mm

Tools required: T-Wrench, Feeler gauge

Parts required: Spark plug

### IMPORTANT

Use only NGK BPMR8Y spark plug otherwise severe engine damage may occur.

1. Check plug gap. Correct gap is 0.6 mm to 0.7 mm.
2. Inspect electrode for wear.
3. Inspect insulator for oil or other deposits.
4. Replace plug if needed and tighten to 15 N·m - 17 N·m (150 kgf·cm to 170 kgf·cm).

# Maintenance and care

## Troubleshooting table

Problem	Diagnosis	Cause	Solution
Engine is difficult to start, fluctuating rotation  or  The engine does not start	No fuel is entering the over-flow pipe	Fuel filter is clogged Fuel system is clogged Internal carburettor parts sticking	Clean or replace Clean Consult your ECHO DEALER
	Fuel is entering the over-flow pipe	Fuel degradation Carburettor problem	Replace with new fuel Consult your ECHO DEALER
	The crankshaft does not rotate	Internal engine malfunction	Consult your ECHO DEALER
	The spark plug is dirty or damp	Fuel degradation Incorrect electrode gap Carbon deposits Electrical fault	Replace with new fuel Adjust or replace Clean or replace Consult your ECHO DEALER
Engine starts but no acceleration is possible		Dirty air filter Dirty fuel filter Blocked fuel passage Carburettor adjustment problem Spark plug problem Blocked exhaust vent or silencer vent Spark arrester screen plugged or normal wear	Clean or replace Clean or replace Consult your ECHO DEALER Consult your ECHO DEALER Clean, adjust or replace Clean Clean or replace

- Checking and maintenance requires specialist knowledge. If you are unable to check and maintain the product or deal with a fault yourself, consult your ECHO DEALER. Do not attempt to dismantle the product.
- Consult your ECHO DEALER in the event of a problem that is not covered in the table above, or other such concerns.
- For spare parts and consumables, please use only genuine parts and designated products and components. Using parts from other manufacturers or non-designated components may result in a malfunction.



# Maintenance and care

## Long-term storage(30 days or more)

### WARNING

During operation the silencer - catalytic silencer and surrounding cover become hot. Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.

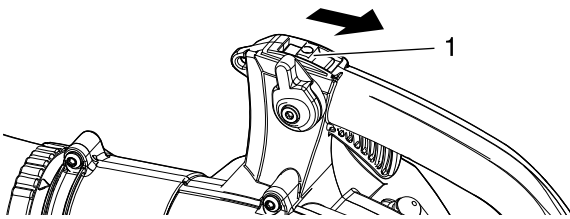


Do not store your unit for a prolonged period of time (30 days or longer) without performing protective storage maintenance which includes the following:

1. Store unit in a dry, dust free place, out of the reach of children.

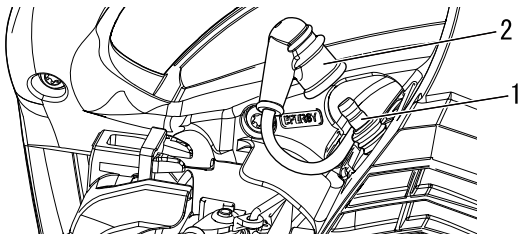
### WARNING

Do not store where fuel fumes may accumulate or reach an open flame or spark.



1. Stop switch

2. Place the stop switch in the "STOP" position.
3. Remove accumulation of grease, oil, dirt and debris from exterior of unit.
4. Perform all periodic lubrication and services that are required.
5. Tighten all screws and nuts.
6. Drain the fuel tank completely outdoors over bare ground and pull the recoil starter handle several times to remove fuel from the carburettor. Do not drain fuel indoors.
7. Remove the spark plug and pour 10mL of fresh, clean ECHO 2-stroke engine oil into the cylinder through the spark plug hole.
  - A. Place a clean cloth over the spark plug hole.
  - B. Pull the recoil starter handle 2-3 times to distribute the oil inside the engine.
  - C. Observe the piston location through the spark plug hole. Pull the recoil handle slowly until the piston reaches the top of its travel and leave it there.
8. Fit the spark plug. (Do not connect the spark plug cap. )
9. Remove blower pipe assembly from unit.



1. Spark plug

2. Spark plug cap

Please contact your ECHO DEALER in order to dispose of the product or its parts in compliance with national laws.

# Specifications

		PB-2520
<b>Mass (Dry, with blower pipes):</b>	kg	3.9
<b>External dimensions (without blower pipes):</b>		
Length	mm	324
Width	mm	233
Height	mm	355
<b>Engine:</b>		
Type		Air cooled 2-stroke single cylinder gasoline engine
Engine displacement	cm <sup>3</sup>	25.4
Maximum power	kW	0.9
Engine speed at maximum engine power	r/min	7500
Recommended engine speed at full load	r/min	7500
Recommended engine speed at idling	r/min	3000
Carburettor		Diaphragm type
Ignition		Flywheel magneto - CDI system
Spark plug		NGK BPMR8Y
Starter		Recoil starter
<b>Air volume:</b> (ANSI/OPEI B175.2)	m <sup>3</sup> /h	768
<b>Max. air speed:</b> (ANSI/OPEI B175.2)	m/s	76.2
Fuel:		Regular grade petrol. Minimum 89 Octane unleaded petrol is recommended. Do not use fuel containing methyl alcohol or more than 10 % of ethyl alcohol.
Oil		Two stroke, air-cooled engine oil. ISO-L-EGD Standard (ISO 13738), JASO FC,FD grade and ECHO recommended oil.
Ratio		50 : 1 (2%)
<b>Tank Capacity (full):</b>	mL	550
<b>Sound pressure level:</b> (EN ISO 22868)	L <sub>pAeq</sub>	dB(A)
uncertainty	K <sub>pA</sub>	92.5
		2.5
<b>Sound power level:</b> (EN ISO 22868)	L <sub>wAeq</sub>	dB(A)
uncertainty	K <sub>wA</sub>	105.4
		2.5
<b>Vibration:</b> (EN15503)	a <sub>h<sub>v</sub>,eq</sub>	m/s <sup>2</sup>
uncertainty	K	9.9
		5.0

These specifications are subject to change without notice.

# Declaration of conformity

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The undersigned manufacturer:

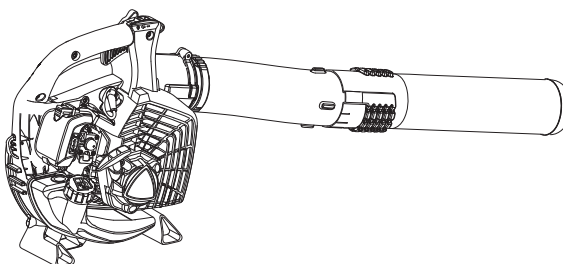
YAMABIKO CORPORATION  
1-7-2 Suehirocho, Ohme, Tokyo 198-8760, JAPAN

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Declares that the hereunder specified new unit:

## POWER BLOWER

Brand: ECHO  
Type: PB-2520



Complies with:

- \* the requirements of Directive **2006/42/EC** (use of harmonized standard **EN 15503: 2009+A2: 2015, EN ISO 22868:2021**)
- \* the requirements of Directive **2011/65/EU** (use of harmonized standard **EN IEC63000:2018**)
- \* the requirements of Directive **2014/30/EU** (use of harmonized standard **EN ISO 14982: 2009, EN 55012:2007+A1:2009**)
- \* the requirements of Directive **2000/14/EC**

Conformity assessment procedure followed **ANNEX V**


Measured sound power level : **105 dB(A)**

Guaranteed sound power level : **108 dB(A)**

Serial Number P51238100001 to P51238200000

Tokyo, March 1st 2025

**YAMABIKO CORPORATION**



**Katsunori Kon**  
**General Manager**  
**Quality Assurance Dept.**

**The authorized representative in Europe who is authorized to compile the technical file.**

Company: CERTIFICATION EXPERTS B.V.

Address: Amerlandseweg 7, 3621 ZC Breukelen, The Netherlands

**Mr. Richard Glaser**

# YAMABIKO CORPORATION

1-7-2 Suehirocho, Ohme, Tokyo 198-8760 JAPAN

PHONE: 81-428-32-6118. FAX: 81-428-32-6145.



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