

# Operation Manual

## Petrol Backpack Leaf Blower

61956

**XPO** the **tool**  
experts



Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.



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## Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it. Keep these operation instructions in a safe place.

**Warning:** For your own safety, read this instruction manual before operating your new device. Non-compliance with any of the following instructions might lead to serious injuries. Familiarise yourself with the operation of the leaf blower before operating it.

## Proper use

The device is intended to be used for blowing leaves and natural waste from the garden and must not be used for other purposes.

## Symbols on the device



Thoroughly read the operating manual before use.



Keep bystanders away. Never operate the device whenever people, especially children, and animals are too close.



Wear protective glasses to protect your eyes during use.



Wear a hearing protection to protect yourself from noise.



Keep your hands away from rotating parts of the ventilator.

## Safety instructions

**Caution:** Thoroughly read the safety notes before operating the device.

### *Familiarise yourself with the device*

- Read the operating instructions carefully until you have fully understood and are able to follow all warnings and safety advice before you start using the device.
- Limit the use of the device to users who understand and will follow all warnings and safety instructions in this manual.

### *Safety within working area*

- Remove debris or grass clippings from driveways, pavements, patios, etc.
- Blow the clippings, straw, and leaves in a pile.



- **Warning:** Examine the work area before starting the device. Remove all debris and hard objects such as rocks, glass, wire, etc. that could ricochet, be thrown, causing injury or damage during operation.

### *Personal safety*

- Always wear protective glasses and ear protection when using and maintaining the device. Stirred stones or debris could otherwise be thrown in your eyes or face and lead to serious injuries and/or blindness.
- Always wear safety shoes. Never use the device barefoot or wearing sandals.
- Always wear a dust or face mask when working in a dusty environment.
- Tie hair together that exceeds shoulder length. Secure or remove any jewellery, loose clothing, loose straps, ribbons, fringes, etc., as they could be caught by moving parts.
- Never work with the leaf blower if you are tired or feel ill, or if you are under the influence of alcohol, drugs, or medicine.
- Keep children, animals, and other bystanders at least 15 m from your work area when you start or use the device. Never point the air nozzle at other people or animals.
- Do not operate the device without having installed the inlet cover to avoid any contact with the rotor.
- Do not operate the device for a prolonged time. Make regular breaks.
- Do not use the device when being tired or under the influence of alcohol, drugs, or medicine.

### *Fuel-handling safety*

- Eliminate all sources of sparks or flames (including jobs that may cause sparks) and do not smoke in areas where fuel is mixed, poured, or stored.
- Mix and pour fuel in an outdoor area. Store fuel in a cool, dry, well-ventilated place. Use an approved, labelled container for all fuel purposes.
- Do not smoke when handling fuel or operating the device.
- Make sure that the device is properly installed and in good working condition.
- Do not fill the fuel tank when the engine is hot or running.
- Avoid spilling fuel or oil. Wipe up any fuel spills before starting the engine.
- Before starting the engine, move at least 3 m from the fuel and the refuelling point.
- Always store fuel in a container approved for flammable liquids.
- **Warning: ONLY USE THE FUEL APPROVED** for operation of this device as stated in this instruction manual. Always follow instructions stated in chapter "Fuel and lubrication" of this instruction manual. **ONLY** use petrol correctly mixed with 2-stroke-motor-lubricant.
- Do not operate the device without the exhaust pipe and cover being properly installed.
- Do not come into contact with the hot exhaust pipe and spark plug wire.
- Never operate the device in narrow or badly ventilated areas, for exhaust fumes form.

### *Safety of operation*

- This leaf blower is only suitable for blowing together leaves and other debris on the ground.
- Operation of the device should be limited to technically experienced and properly trained persons.
- Before each use, inspect the device for worn, loose, missing, or damaged parts. Only operate the leaf blower when it is in perfect condition.
- Always remove oil and fuel from the housing. Never start the device in closed rooms or buildings. **Inhaling exhaust gases can be fatal!**
- Exhaust systems can get very hot and will remain so for some time after stopping. This also applies to idle use. Contact can cause burns to the skin. Think about the **fire hazard!**
- To avoid static electric shock, do not wear rubber gloves or other insulated gloves during operation.
- Do not place the device on any surface other than a clean, hard area while the engine is running. Foreign objects such as gravel, sand, dust, grass, etc. can be picked up by the air inlet and ejected through the exhaust opening, which can damage the device or property, or cause serious injury to bystanders or the user.



- Avoid dangerous environments. Do not work in unventilated rooms or in places where explosive gases or carbon monoxide can develop.
- Do not work on unstable surfaces such as ladders, trees, steep slopes, roofs, etc. Make sure that you keep balance and always stand securely.
- Hold the device so that leaves blown together are not directed towards persons, animals, glass, and solid objects such as trees, cars, walls, etc. The air discharge pressure can throw up stones, dirt, or sticks and thereby injure people and animals, break glass, or cause other damage.
- Only operate the device with the suitable accessories. Always mount the blowpipes. Switch off the device before placing it on the ground, before fixing accessories, or removing them.
- The blower opening and tubes must be checked regularly. The engine must be switched off and the spark plug connector removed. Keep vents and exhaust pipes free of debris to ensure proper airflow.
- Never use the device to spray chemicals, fertilisers, or other substances that may contain toxic substances.
- To prevent fire spreading, do not use the device near burning branches or bushes, chimneys, barbecue areas, ashtrays, etc.
- Only use the device according to the intended use defined in this manual.
- Tighten all screws and fixing elements and keep the device in good operating condition. Never operate it if it has been adjusted incorrectly or mounted incompletely and insecurely.
- Always keep the handles clean, dry, and free from oil and grease.
- Operate the device at appropriate times of the day – neither too early in the morning nor too late in the evening – to avoid disturbing persons. Refer to the times listed in local ordinances. Working hours between 9 a.m. and 5 p.m. from Monday to Saturday are usually advisable.
- To reduce the noise level, operate the device at the lowest possible throttle speed to get the job done.
- Never place the hot engine near flammable material.

#### *Safety of maintenance*

- Any maintenance work not listed in this manual should be performed by a qualified person.
- The spark plug cap must be removed before servicing the device. This is not necessary for carburettor adjustments.
- Use only recommended spare parts. The use of other spare parts can invalidate your warranty and damage your device.
- Empty the fuel tank if the device is not used for a long time. Use the remaining fuel in the carburettor by starting the engine and running it until it stops by itself.
- Do not store the device or fuel in a closed area where fuel exhaust gases can come into contact with sparks, open flames (e.g., from water heaters), electric motors or switches, stoves, etc.
- Keep it in a dry place and out of children's reach.
- Secure the device during transport so that it cannot skid, tip over, or fall down.

#### *Residual risks*

Even if the device is properly operated, it is not possible to eliminate all residual risks. The following risks can arise because of the construction of the device:

- damages to lungs if the user does not wear an effective protective mask.
- damages to hearing if the user does not wear an effective protection.
- damages caused by vibrations if the user operates the device during a long time, if it is not handled correctly, or if it is maintained improperly.

**Warning:** This machine generates an electromagnetic field when in operation. This field can affect the functioning of active or passive medical implants under certain conditions. To avoid the risk of serious injury or death, persons with a medical implant should consult their doctor and/or the manufacturer of the implant before using this machine.

**Warning:** Never remove, modify, or add components of or to the device. Otherwise, injuries and/or damages to the device might follow, and the manufacturer's warranty will be voided.

**Main components and their name**

Nº	Name	Nº	Name	Nº	Name
1	Throttle lever	8	Choke lever	15	Throttle valve connection
2	Lock and on/off ignition switch	9	Fuel tank	16	Flexible pipe
3	Frame	10	Tank cap	17	Hose clamp
4	Exhaust	11	Cylinder	18	Blow pipe rail
5	Starting handle	12	Primer pump	19	Connection pipe
6	Spark plug wire/spark plug	13	Nozzle	20	Blow pipe
7	Air filter cover	14	Operating handle		

**Note:** The pictures shown are of model EB430E and only serve as reference.





## Assembly

### *Attaching the flexible pipe*

Place the hose clamp **(C)** on the flexible pipe before connecting the flexible pipe with the outlet pipe of the ventilator. The flexible pipe **(B)** and outlet pipe **(A)** of the ventilator (fig. 1) need to be connected with a hose clamp **(C)** and tightened (fig. 2).

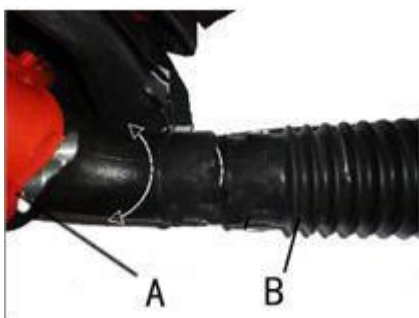


Fig. 1



Fig. 2

### Connecting the operating pipe

**Note:** Keep the accelerator as straight as possible when connecting the blow pipes.

1. Place the device on an even surface while mounting it. Ensure that the screwing mechanism of the clamp is positioned away from the operator.
2. Place the hose clamp (**G**) onto the flexible pipe and operating pipe.
3. Turn the marking on the rotating ring (**D**) so that it matches the throttle lever (**F**). Place the operating pipe (**E**) into the flexible pipe (**B**) (fig. 3), then tighten it with a hose clamp (**G**) (fig. 4).
4. Attach the clips of the throttle valve connection (see 1, fig.5/6) to both ends of the flexible pipe to secure the throttle valve cable.

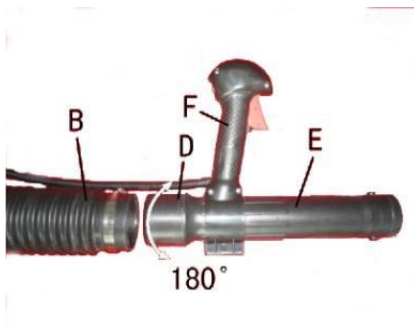


Fig. 3

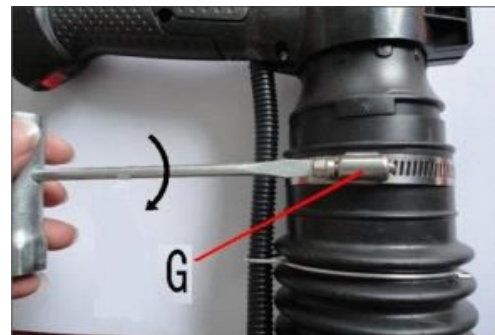


Fig. 4

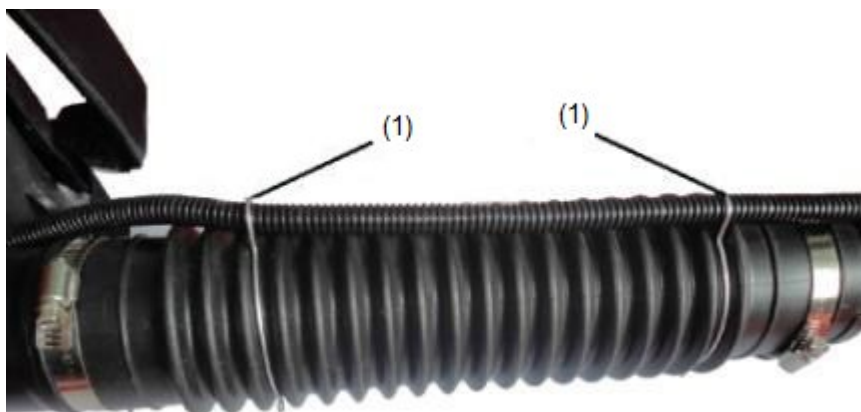


Fig. 5/6

### Attaching the connection pipe and the concentrator nozzle

Connect the connection pipe (**H**) with the air nozzle (**I**). Push the pipes together and turn them clockwise so that they connect (fig. 7). Attach the pipes via the M5 screws included in the delivery.

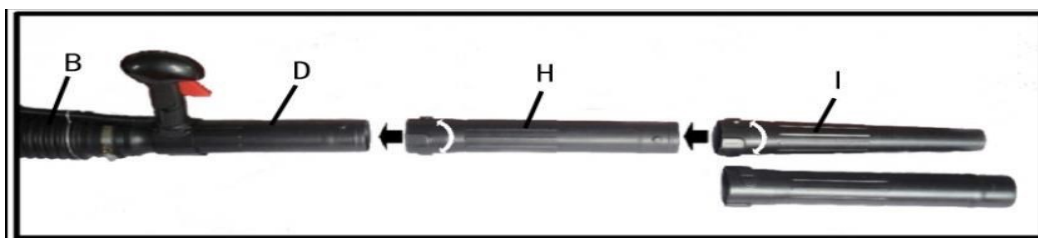


Fig. 7





### *Adjusting the back part, tension belt, and control handle*

1. Place the blower on your back by putting your arms through the shoulder straps, as if putting a jacket on.
2. As soon as the adjustments to the tension belt have been made for user comfort, take the leaf
3. blower off your back and place it in an upright position on an even surface.
4. Adjust the back part and control handle.

## **Fuel and oil**

### *Fuel*

Use unleaded petrol with normal quality mixed with special 2-stroke motor oil for best results. Use the mixing ratio stated in the section fuel mixing table further below.

**Warning:** Never only use petrol for the device. This will lead to permanent motor damages and void the manufacturer's warranty for this product. Never use a fuel mix, which has been stored for longer than 90 days.

**Warning: Only** use top-quality 2-stroke lubricant/oil for air cooled 2-stroke motors mixed with a 1:30 ratio. Do **not** use 2-cycle oil product with a recommended mixing ratio of 1:100. If an insufficient lubrication is the reason for a motor damage, it will void the warranty of the manufacturer.

### *Mixing the fuel*

First fill oil into an approved fuel container, then petrol, to allow the petrol to mix with the oil. Shake the container to mix the two liquids thoroughly.

### *Mixing ratio*

<b>Petrol</b>	1:30
<b>Mixing ratio</b>	1 part oil and 30 parts petrol

## **Starting and stopping the motor**

### *Starting a cold motor*

1. Ensure that the ignition switch (**B**) is not in stop position (fig. 9).
2. Operate the primer pump 10 times by pressing the primer (**D**) (fig. 10).
3. Your device is equipped with a 2-position throttle: full choke "close" (pos. 1) and "run" | ↑ | (Pos. 2). Put the choke lever into the full choke "close" position (fig. 11).
4. Place the device on the ground and hold the upper support handle.
5. Pull the starter rope 4–6 times. If the device does not start, put the choke lever into the centre position and pull it another 4–6 times. Wait 10 s after the device has started and place the choke lever into the 2<sup>nd</sup> position.
6. Push the B button and operate the accelerator to start.

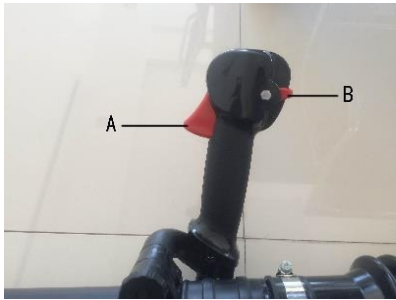


Fig. 9



Fig. 10



Fig. 11

**Note:** If the motor does not start after several tries, read the section “troubleshooting.”

**Note:** Always pull the starter rope straight ahead. If one pulls the starter lopsided, the rope rubs against the eyelet. This will lead to the rope fraying sooner and thus wear. Always hold the starter handle when the rope is pulling back. Never let the rope rebound without control. This can lead to the rope getting caught or fraying and damaging the starter mounting.

*Important idle-speed information*

In some cases, it might be necessary to alter the idle speed slightly, due to operating conditions (height, temperature, etc.). Should the device not run with idle speed after the warming phase and after starting the device twice, carry out the following steps to adjust the idle speed:

1. Find the idle speed adjustment screw (**G**) on the carburettor (fig. 15).
2. Use a cross-head screwdriver to turn the screw  $\frac{1}{4}$ – $\frac{1}{2}$  clockwise (right hand direction). The device should now be properly in the idle speed.



Fig. 15

*Stopping the motor*

Emergency stop

If it is necessary to stop the device immediately, switch the on/off switch into stop position.



### Normal stop

To stop the motor normally, release the trigger and let the motor return to idle speed. Then stop the machine.

### *Starting a warm motor*

**Caution:** This method is only applicable with the motor not stopped for more than 15–20 min.

1. Adjust the accelerator lock (see step 2 of “starting a cold motor” section), swiftly pull the starter rope.
2. If the motor does not start or starts after 5 pulls of the starter rope and then stops, follow the instructions stated in “starting a cold motor.”

### **Operating instructions**

1. The blower can be used at different spots: to free trees, bushes, hedges, flower beds, and areas that are hard to clean, around buildings, walls, overhangs, fences, and screens.
2. We recommend wearing a mask when operating the device in dusty areas.
3. Keep a distance to the material to be blown that allows to easily control its direction of movement. Never blow foreign bodies into the direction of bystanders, animals, foreign property (such as cars).
4. To steer the speed of the air flow, the device can be regulated to any speed from idle speed to full speed. Experience with the device and visual judgement will allow you to determine the required amount of air for the individual task.
5. To reduce the sound level, limit the number of devices used at the same time.
6. Check the equipment before use, especially the exhaust, the air inlets, and air filter.
7. Use a rake or broom to loosen dirt before starting the blowing process. In dusty environments, slightly dampen the surface.
8. Save water by using the leaf blower instead of hoses for various lawn and garden applications. These include areas such as gutters, view screens, patios, barbecues, porches, and gardens.
9. Use the connection pipe with a nozzle so that the air flow can work close to the ground.
10. Tidy the work area after using the leaf blower and other equipment. Put all garden debris into appropriate rubbish bins, do not dispose of them in the wild.

### **Warning:**

- Always wear an authorised, shielded pair of safety glasses or a facial protection during operation due to flying debris.
- Do not use the leaf blower if other people or animals are nearby. Keep a safety distance of at least 15 meters to them.
- Before taking the leaf blower into operation, read the safety notes in the operating manual and all regulations for the operation of the device thoroughly. These safety precautions and regulations are for your own protection, for the protection of others, of animals, and of foreign property.

### **Operation**

1. Follow the instructions regarding “starting a cold motor.”
2. As soon as the device is running, place it on your back by putting your arms through the shoulder straps, as if you would put a jacket on.
3. When preparing to clean an area of debris, always position yourself so that you can influence the direction of in which the debris is blown.
4. The control lever and flexible pipe allow you to clear even areas that are hard to reach.
5. The handle, throttle, cut-off, and on/off switch for the ignition (**B**) are all mounted in a rotary handle which offers a variety of operating positions and comfort.

## Maintenance

### *Cleaning the air filter*

**Caution:** Never operate the blower without an air filter, as dust and dirt can enter the motor otherwise and damage it. The air filter needs to be kept clean. If it is damaged, replace it with a new filter.

1. Push the button **(A)** to hold the air filter lid, remove the lid **(B)** and the filter from the air closet (fig. 20).
2. Wash the filter with soapy water. Do not use petrol!
3. Let the filter air-dry.
4. Re-mount the air filter and re-place the air filter cover on.

**Note:** Replace the filter if it is frayed, torn, damaged, or not be cleaned any longer.

### *Cleaning the fuel filter*

**Caution:** Remove the fuel from the device and store it in an approved container before starting the process. Slowly open the tank lid to release the pressure which might have built up in the fuel tank.

**Note:** Keep the ventilation **(A)** of the tank lid free from foreign bodies (fig. 21).

1. Remove the tank lid of the fuel tank **(B)** to remove the fuel filter **(C)** from the tank. Use a hooked piece of wire to pull the filter **(C)** from the tank (fig. 22).
2. Pull the fuel filter **(C)** off with a turning motion (fig. 23).
3. Replace the fuel filter.

**Note:** Never operate the leaf blower without a fuel filter. Internal motor damages might result.

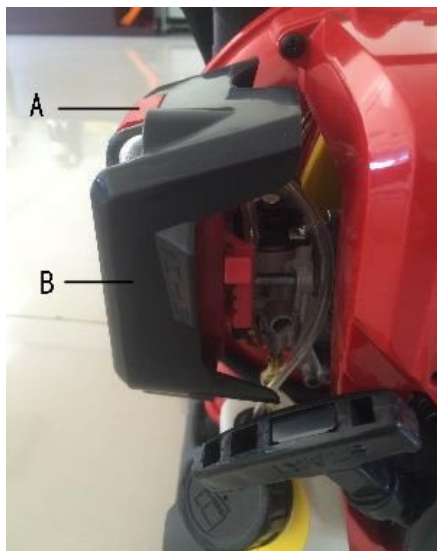


Fig. 20



Fig. 21



Fig. 22



Fig. 23

### Adjusting the carburettor

The factory settings of the carburettor allow optimal performance. If further adjustments are necessary, contact a qualified technician with your leaf blower.

#### Spark plug

1. To remove the spark plug (**B**) for cleaning or exchange, ensure that the motor is switched off and the spark plug cooled down. Then remove the spark plug shell from the spark plug. Remove the spark plug with the right spark plug tool. If necessary, check, clean and replace it.
2. Spark plug distance: 0.635 mm (0.25").
3. Torque: 12–15 Nm. Connect the spark plug connector.

### Technical specifications

<b>Motor type</b>	Air-cooled 2-stroke motor (1E40F-5 A)
<b>Spark plug type</b>	AT4117 (CJ8)
<b>Cubic capacity (cm<sup>3</sup>)</b>	42.7
<b>Tank capacity (ℓ)</b>	1.2
<b>Fuel type</b>	Unleaded petrol
<b>Mixing ratio</b>	1:30
<b>Motor power (kW)</b>	1.25 (1.7 hp)
<b>Idle speed (1/min)</b>	2800 ± 200
<b>Rotation speed with nominal output (1/min)</b>	6800
<b>Speed limitation</b>	None
<b>Air flow speed (m/s)</b>	≥ 47
<b>Air flow volume (m<sup>3</sup>/s)</b>	≥ 0.25
<b>Weight (kg)</b>	8
<b>Total dimensions (mm)</b>	410×330×495
<b>Noise level with 7 m distance (dB (A))</b>	108

**Note!** Do not operate the machine due to damage from noise and vibration over a longer duration of time (e.g., longer than half an hour).



## Storage

**Warning:** Non-compliance with these steps might lead to residues in the carburettor leading to serious starting problems or lasting damages after storing.

1. Carry out all general maintenance work recommended in the “maintenance” section of the operating manual.
2. Clean the outer surface of the device.
3. Empty the fuel out of the fuel tank.
4. Start the motor after the fuel has been emptied.
5. Let the motor run with idle-speed until the fuel remaining is consumed.
6. Let the motor cool down (approx. 5 min).
7. Use a spark plug wrench to remove the spark plug.
8. Add 1 teaspoon of clean 2-stroke oil into the combustion chamber. Pull the starter rope several times slowly to lubricate the inner components. Re-place the spark plug.
9. Store the device in a cool, dry place, away from ignition sources such as oil burner, water heater, etc.

## Returning the device from storage

1. Remove the spark plug.
2. Pull the starter rope quickly to remove the excess oil from the combustion chamber.
3. Clean the spark plug slot or install a new spark plug with an according slot.
4. Prepare the device before use.
5. Fill the fuel tank with the right fuel-oil mix (see “fuel and oil” section).

## Troubleshooting

Problem	Possible cause	Possible solutions
Device does not start or starts, but does not work.	Wrong starting procedure	Follow instructions in operating manual.
	Wrong carburettor mix	Have carburettor adjusted by authorised technician.
	Dirty spark plug	Clean slot or replace spark plug.
	Empty fuel tank	Fill fuel tank with properly mixed fuel.
	Primer pump pushed too often	Push primer pump 10 times slowly.
Device starts, but motor has low output.	Fuel filter clogged	Replace fireguards.
	Wrong lever position	Put lever in “run” position.
	Dirty fireguards	Replace fireguards.
	Dirty air filter	Remove, clean, re-place filter.
	Wrong carburettor mix	Have carburettor adjusted by authorised technician.
Motor does not start	Wrong carburettor mix	Have carburettor adjusted by authorised technician.
	Clogged air filter	Clean or replace air filter.
No electricity supply under burden	Old or wrongly mixed fuel	Empty fuel tank and fill it with fresh fuel.



	Wrong carburettor mix	Have carburettor adjusted by authorised technician.
	Clogged air filter	Clean or replace air filter.
Runs irregularly	Dirty spark plug	Clean or replace air filter.
	Wrongly adjusted spark plug	Clean the slot or replace spark plug.
	Clogged spark arrestor	Clean or replace the spark arrestor.
Excessive development of smoke	Dirty air filter	Clean or replace air filter.
	Wrong carburettor mix	Have carburettor adjusted by authorised technician.
	Wrong fuel mixing ratio	Use right fuel mixture.

## Regulations for waste disposal

The Waste Electrical and Electronic Equipment Directive (WEEE Directive, 2012/19/EU) of the EU was implemented in the German law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE directive are labelled with the symbol of a crossed-out wheeled rubbish bin. This symbol indicates that this electric device must not be disposed of with the domestic waste.

WilTec Technik GmbH is registered with the German registration authority EAR (Stiftung Elektro-Altgeräte Register) under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic devices (intended for use in the countries of the European Union and other European countries with a separate waste collection system for these devices).

The symbol on the packaging or the product itself indicates that this product must not be treated as normal domestic waste but must be disposed of at a recycling collection station for electrical and electronic waste.

By disposing of this product correctly, you contribute to the protection of the environment and the health of your fellow people. Inappropriate disposal threatens the environment and health.



Material recycling helps to reduce the consumption of raw materials.

Additional information about the recycling of this product can be provided by your local commune, the municipal waste disposal facilities, or the store where you purchased the product.

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