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Originalfassung

DE BETRIEBSANLEITUNG

GARTENPFLEGE-SET

Übersetzung / Translation

EN USER MANUAL

GARDEN MAINTENANCE SET

FR MANUEL D'UTILISATION

DU KIT D'ENTRETIEN DU JARDIN

SL NAVODILO ZA UPORABO

KOMPLET VRTNEGA ORODJA



ZI-GPS182J

EAN: 9120039233215





10 PREFACE (EN)

Dear Customer!

This manual contains important information and advice for the correct and safe use and maintenance of the garden maintenance set ZI-GPS182J.

Following the usual commercial name of the machine (see cover) is substituted in this manual with the name "machine".

The manual is part of the machine and may not be stored separately. Read it profoundly before first use of the machine and keep it for later reference. When the machine is handed to other persons always put the manual to the machine.

Please follow the security instructions!

Please read the entire manual, to prevent misunderstandings, machine damage or even injuries!



Due to continuous development of our products illustrations, pictures might differ slightly.

If you however find errors in this manual, please inform us.

Technical changes excepted!

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11 SAFETY

11.1 Intended Use

The machine must only be used for its intended purpose! Any other use is deemed to be a case of misuse. To use the machine properly you must also observe and follow all safety regulations, the assembly instructions, operating and maintenance instructions lay down in this manual.

All people who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards.

It is also imperative to observe the accident prevention regulations in force in your area.

The same applies for the general rules of occupational health and safety.

The machine is used for:

Trimmer: For trimming and cutting grass, lawns, undergrowth and small weeds

Hedge trimmer: For cutting branches and fresh shoots of hedges and bushes

Branch saw: For the separation of branches of standing trees

This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety. Never allow children or people unfamiliar with these instructions to use the machine. Supervise children. This will ensure that children do not play with the machine.

Any manipulation of the machine or its parts is a misuse, in this case ZIPPER-MASCHINEN and its sales partners cannot be made liable for ANY direct or indirect damage.

WARNING



- **Use only cutting tools allowable for this machine!**
- **Never use a damaged cutting tools!**
- **Never use the machine with defective or without mounted guard!**
- **The removal or modification of the safety components may result in damage to equipment and serious injury!**

HIGHEST RISK OF INJURY!

Ambient conditions

The machine may be operated:

humidity max. 90%

Temperature from +5°C to +40°C

Prohibited use:

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- The operation of the machine without provided protective devices is prohibited.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden
- The use of the machine not according with the required dimensions is forbidden.
- Any manipulation of the machine and parts is forbidden.
- The use of the machine for any purposes other than described in this user-manual is forbidden.
- It is not allowed to leave the immediate work area during the work is being performed.

For the trimmer applies:

- The device must not be used in public spaces, parks, sports venues or along roads and in the agriculture and forestry.
- The device must not be used for cutting and chopping:
 - hedges, shrubs and bushes
 - of flowers within the meaning of compost material.

For the hedge trimmer applies:

- As a hedge trimmer for private domestic and hobby gardens such devices are considered, which are not used in public spaces, parks, sports venues as well as in agriculture and forestry.
- The hedge trimmer may not be used for cutting grass, lawn edges or for crushing for composting.

**For the branch saw applies:**

- The branch saw no use for felling trees, saplings or bushes.
- The branch saw no use for cutting building materials and plastics.
- The branch saw is suitable only for private use in the home and hobby gardens.
- The branch saw is not suitable for forestry work (removing branches in the forest).

11.2 Safety instructions

Missing or non-readable security stickers have to be replaced immediately!**To avoid malfunction, machine defects and injuries, read the following security instructions!**

The locally applicable laws and regulations may specify the minimum age of the operator and limit the use of this machine!

- Use the machine only in good enough light to allow a safe operation can be guaranteed.
- In tiredness, decreased concentration or under the influence of alcohol or drugs, the work on the machine is prohibited!
- Caution in slippery conditions - slip hazard - risk of injury. When working, robust and non-slip footwear. Slides / stumble / traps are a major cause of serious injury or death.
- The machine may only be operated by trained personnel.
- Unauthorized persons, especially children and not trained personnel must be kept away from the running machine!
- If you pass the machine to third, these instructions must be attached to the machine.
- Before each use, the reliability of the machine is to be checked (tightness of the cutting tool, the proper function of the throttle lever)
- Danger of burns! During the operation flow of hot exhaust gases and engine parts such as the carburettor and engine become hot.
- Never place a hot brush cutter in dry grass or other easily flammable materials.
- After the operation, the machine must cool down. Otherwise there is an imminent risk of burns
- **WARNING:** Gasoline is highly flammable!
- Smoking and open flames are prohibited during refuelling. Do not refuel when the engine and carburettor are still very hot.
- Refuel only outdoors or in a well ventilated area.
- Avoid contact with skin and clothes (fire hazard).
- Check after refuelling tank cap and check for leaks.
- Start the engine at least 3 meters from the tank location.
- Spilled fuel is wipe immediately.
- Work attentively, safety conscious and always be fully aware safe stand when working! Caution on uneven work surfaces and work surfaces with a slope!
- Regular breaks reduce the security risk to loss of control due to fatigue. Change the working position over again.
- Avoid abnormal posture.
- At idle, the blade should not rotate!
- The maximum shaft speed must not exceed the specified speed. Checked settings!
- No other person shall remain within 15m!
- This distance also adhere to things! Danger of damage!
- Solid objects, stones, metal parts, or the like can be thrown out - risk of injury!
- Use personal safety equipment: ear protectors, safety goggles, safety shoes and safety helmet when working with the machine
- Never leave the machine running unattended! Before leaving the working area switch the machine off and wait until the machine stops.
- Switch off the machine before maintenance or adjustment.
- Storage always with an empty tank in a safe place.
- Do not grab in the cutting tool while it is rotating.
- Take care that you do not get under the cutting tool!
- Always use the correct cutting tool for the work to be done.
- Do not operate in an enclosed or confined areas.
- Exhaust contains poisonous carbon monoxide. The exposure can cause unconsciousness and death.



- Before the start, after the failure or shock, be sure to check the device and make sure that it is in good condition.
- Wear firm gloves when you use the brush cutter or if you install or remove the cutting blade.

TRIMMER:

- Never cutting: above hip height, on a ladder, on trees
- Regular breaks reduce the security risk to loss of control due to fatigue. Change the working position over again. Avoid abnormal posture
- Trim always perpendicular to the slope, never up and down
- No other person shall remain within 15m!
- This distance also adhere to things!
- Use personal safety equipment: safety goggles or face protection, safety helmet, safety shoes, work wear when working with the machine
- Wear safety gloves when work with the trimmer and work or change on the cutting blades
- To prevent damage to the machine never grind but lift completely.
- Always cut diagonally to the slope. Do not mow on excessively steep gradients.
- Take extra care when walking backwards. You may stumble! Always work at a walking pace, never run!
- Inspect the area to be cut before you begin work. Remove any foreign objects (such as stones). Look out for foreign objects (such as stones) while you are working.

BRANCH SAW:

- Regular breaks reduce the security risk to loss of control due to fatigue. Change the working position over again. Avoid abnormal posture
- Always start cutting with full chain speed
- Pruning only remove chain is running out of the cut.
- Do not remove the same the whole road, but they work piecemeal from the end of the branch in the direction of strain.
- No other person shall remain within 15m!
- This distance also adhere to things!
- Be careful at the end of the cut. Change in weight can lead to accidents.
- Keep balance and be cautious of falling branches.
- Do not use the branch saw in the vicinity of cables, power or telephone lines..
- Hold when working with the branch saw a safety distance of 10m to aboveground live lines.
- Use personal safety equipment: safety goggles or face protection, safety helmet, safety shoes, work wear when working with the machine
- Wear safety gloves when work with the trimmer and work or change on the cutting blades
- To prevent damage to the machine never grind but lift completely.
- Never cut with the tip of the blades. It may cause kickback!

HEDGE TRIMMER:

- Regular breaks reduce the security risk to loss of control due to fatigue. Change the working position over again. Avoid abnormal posture
- No other person shall remain within 15m!
- This distance also adhere to things!
- Not to pick up objects using
- Use personal safety equipment: safety goggles or face protection, safety helmet, safety shoes, work wear when working with the machine
- Wear safety gloves when work with the trimmer and work or change on the cutting blades
- Cutting always start with running blades
- Take care to do not touch the blades!

TRANSPORT NOTES:

- Switch off the engine
- Fit the blade guard
- Secure the machine
- Empty tank completely, avoid fuel spillage
- To avoid damage to the device never drag but always lift correctly.

STORAGE NOTES:

- Remove and clean thread head and cutter blade
- Fit the blade guard
- Clean the machine and dry
- Empty Tank completely, avoid fuel spillage
- Store in a dry, out of reach of children place, well packaged (protection against cuts)



11.3 Remaining risk factors

Even if the machine is used as required it is still impossible to eliminate certain residual risk factors totally. The following hazards may arise in connection with the machine's construction and design:

- **Risk of injury due to noise:**

Working for a long time can damage your hearing if you do not have a very good hearing protection.

- **Risk of injury due to the working area:**

Solid objects, stones, metal parts, or the like can be thrown out!

- **Risk to the hands or fingers:**

Do not grab in the cutting tool while it is rotating.

- **Risk of injury due to pick up and roll up:**

Wires and cords can be detected by the cutting tool and can damage the machine and can cause injuries. Unplug battery and safety switch (if equipped) before removing the deposits!

- **Risk of burns:**

Touching the mufflers, exhaust and other machine components which can be hot after prolonged continuous operation or when the engine is hot cause severe burns.

- **Risk of fire and explosion:**

Gasoline is highly flammable and explosive under certain conditions.

NEVER refuel fuel or engine oil while the machine is in operation or is hot.

When refueling and at places where fuel is stored not smoke or allow open flames or sparks.

Do not overfill the fuel tank and avoid the spillage of gasoline during refueling. If fuel is spilled make sure the area is completely dry and cleaned before starting the engine.

Make sure that the filler cap is tightly closed again after refueling safely.

- **Chemical risks:**

Never use or refuel a gasoline or diesel engine in a closed area without adequate ventilation.

Carbon monoxide emissions from the internal drive units of the engine can cause in confined spaces through inhalation health effects and death. Therefore use the machine only in well-ventilated rooms or outdoors in operation.

Liquid fuels can cause serious damage on the skin and the environment.

- **Vibration:**

The declared vibration emission value has been for a standardized test is measured and can be used to compare one tool with another electric are. The declared vibration emission value may also be used for a preliminary assessment of exposure.

Warning:

Emission level of vibration can be different from the specified value during the actual use of the electric tool, depending on the manner in which the power tool is used. When you feel uncomfortable or notice discoloration of skin on your hands during the use of the machine, stop working immediately. Observe sufficient break times to rest. Failure to have sufficient break times may result in a hand-arm vibration syndrome.

The extent of exposure depending on the type of work or machine use should be estimated and appropriate breaks taken. In this way, the extent of exposure can be considerably reduced over the entire work time. Minimize the risk caused by vibrations. Maintain this machine according to the instructions in the manual.

- **Kickback:**

When working with metal cutting blades, it can, if fixed objects (trees, branches, stones, or the like) are involved, come to a check of the entire unit or to an abrupt train forward.

This check occurs suddenly without warning and can lead to loss of control of the unit and endanger the user and bystanders.

Special Threatened in poor visibility areas and dense vegetation.



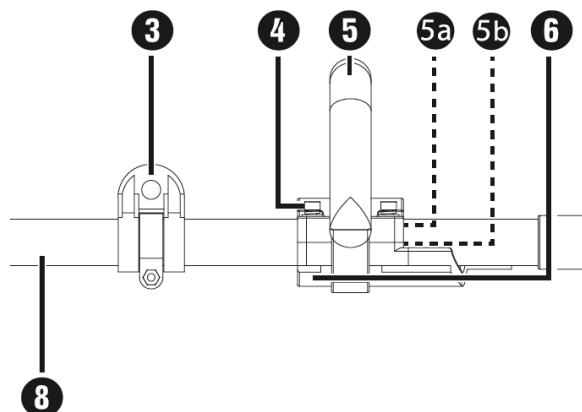
12 ASSEMBLY

Please check the product contents immediately after receipt for any eventual transport damage or missing parts. Claims from transport damage or missing parts must be placed immediately after initial machine receipt and unpacking before putting the machine into operation. Please understand that later claims cannot be accepted anymore.

12.1 Assembly

Round handle:

- Start by fitting the rubber ring **(5a)** on the boom **(8)**.
- Attach the barrier bar **(6)** onto the rubber ring **(5a)** from below.
- The pin **(5b)** on the barrier bar **(6)** must be pushed into one of the two holes on the boom **(8)** to lock it into place.
- Push the round handle **(5)** onto the rubber ring **(5a)** provided on the boom **(8)**.
- Insert the 4 mounting bolts **(4)** from above through the round handle **(5)** and secure them with the 4 nuts in the barrier bar **(6)**.
- Tighten the bolts **(4)**.



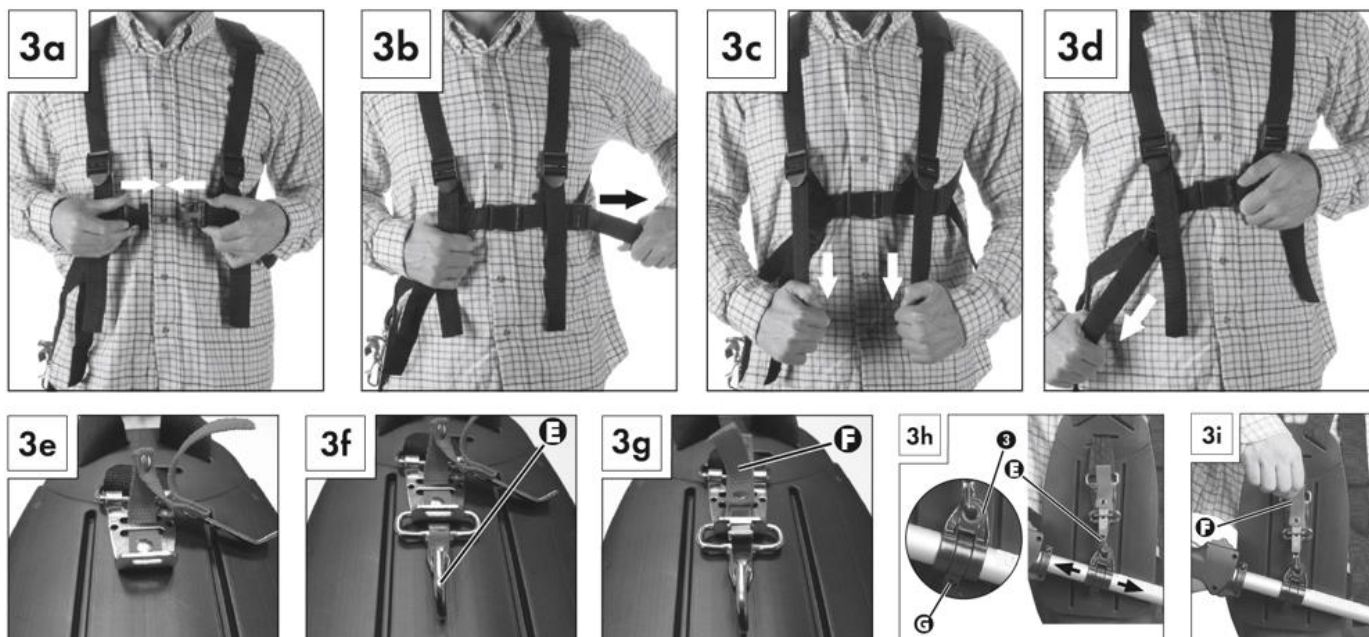
Quick release mechanism:

- Hook in the carabiner and secure it with the red strap on the quick release mechanism.
- Pull on the red strap if you have to release the appliance quickly.



Carrying harness:

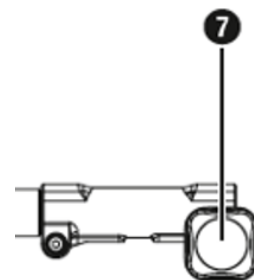
- Hook the carrying harness **(58)** into the carrying lug **(3)**.
- Adjust the length of the carrying harness **(58)** to your size **(3a-3i)**, that the carrying lug **(3)** is at hip height when hooked in place.





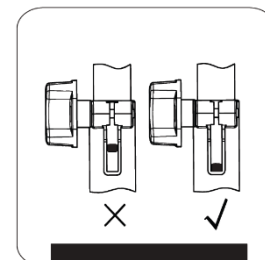
12.1.1 Fitting the boom

- Start by undoing the screw grip (7) on the boom (8) of the motor unit.
- Slide the tab on the front boom (23, 56, 51) onto the boom (8) of the motor unit.
- Must properly inserted the red line be flush with the boom of the motor unit.
- If this is not possible, pull the starter pull cord to adjust the shaft.
Caution! Switch the on/off switch (2) to „0“.
- Tighten the screw grip (7).



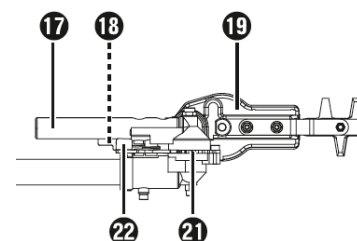
12.1.2 Removing the boom

- Undo the screw grip (7) and pull the front boom (23, 56, 51) out of the boom (8) on the motor unit.



12.1.3 Swivelling the hedge trimmer

- Release the lock (18).
- Press the control lever (22) and swivel the hedge trimmer into the desired position.
- Allow the control lever (22) to click into the recess in the base plate (hedge trimmer) (21).



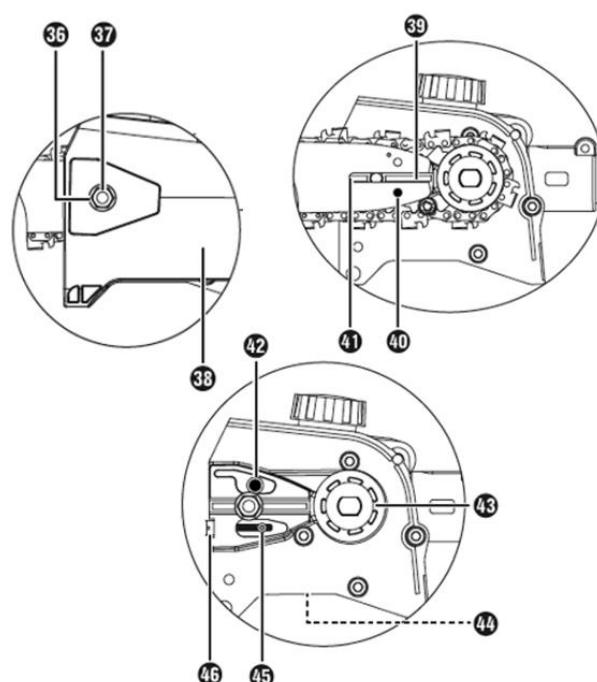
12.1.4 Mounting the saw chain and blade



NOTICE

- **Wear protective gloves! There is a danger of injury from the sharp cutting teeth.**
- **Pay close attention to the running direction of the saw chain on the blade and at the base plate (pole pruner)**
- **Depending on wear, the blade can be turned.**

- Undo the nut (36) using the open-ended spanner.
- Remove the sprocket cover (38).
- Lay the saw chain (31) over the blade (30) starting at the tip.
- Now fit the blade (30) and saw chain (31).
- Lay the guide rail (41) over the blade guide (39) while inserting the chain tensioner pin (45) in the blade hole (40). At the same time, lay the saw chain (31) over the chain sprocket (43).
- Now you can tighten the saw chain (31) (see section "Tightening and checking the saw chain").
- Replace the sprocket cover (38) and tighten the nut (36) gently.



12.1.5 Removing the saw chain

- You may have to loosen the saw chain (31) to remove the blade (30) and the saw chain (31) (see section "Tightening and checking the saw chain"). Follow these instructions in reverse order.



12.1.6 Tightening and checking the saw chain

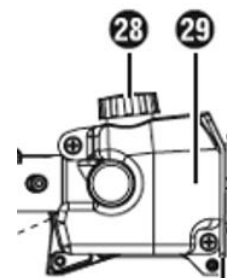
- Turn the chain-tensioner screw **(46)** in a clockwise direction using the flat-blade screwdriver to increase the tension.
- The saw chain **(31)** must lie against the underside of the blade. Check whether the saw chain **(31)** can be drawn by hand over the blade **(30)**.

12.1.7 Lubricating the chain



WARNING

- **Never work without chain lubrication!**
- **If the saw chain runs dry, the cutting equipment may become irreparably damaged in a short time. Always check chain lubrication and oil level in the tank before starting work.**
- **While working, check whether the chain lubrication is working correctly.**
- Remove the oil filler cap **(28)**.
- Fill the oil tank **(29)** with approx. 140 ml of chain oil!
- The chain lubrication can be increased or decreased using the oil adjusting screw **(44)**.
- Press and then turn the oil adjusting screw **(44)** clockwise to decrease the chain lubrication.
- Press and then turn the oil adjusting screw **(44)** anticlockwise to increase the chain lubrication.

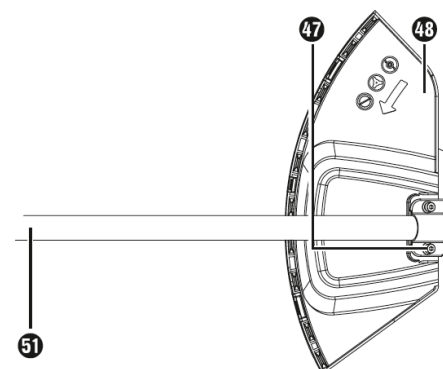


12.1.8 Attaching the boom (extension)

- Fit the boom (extension) **(54)** between the motor unit and the hedge trimmer/pole pruner.
- The assembly is carried out in the same manner as for the attachments described previously.

12.1.9 Fitting/removing the protective guard

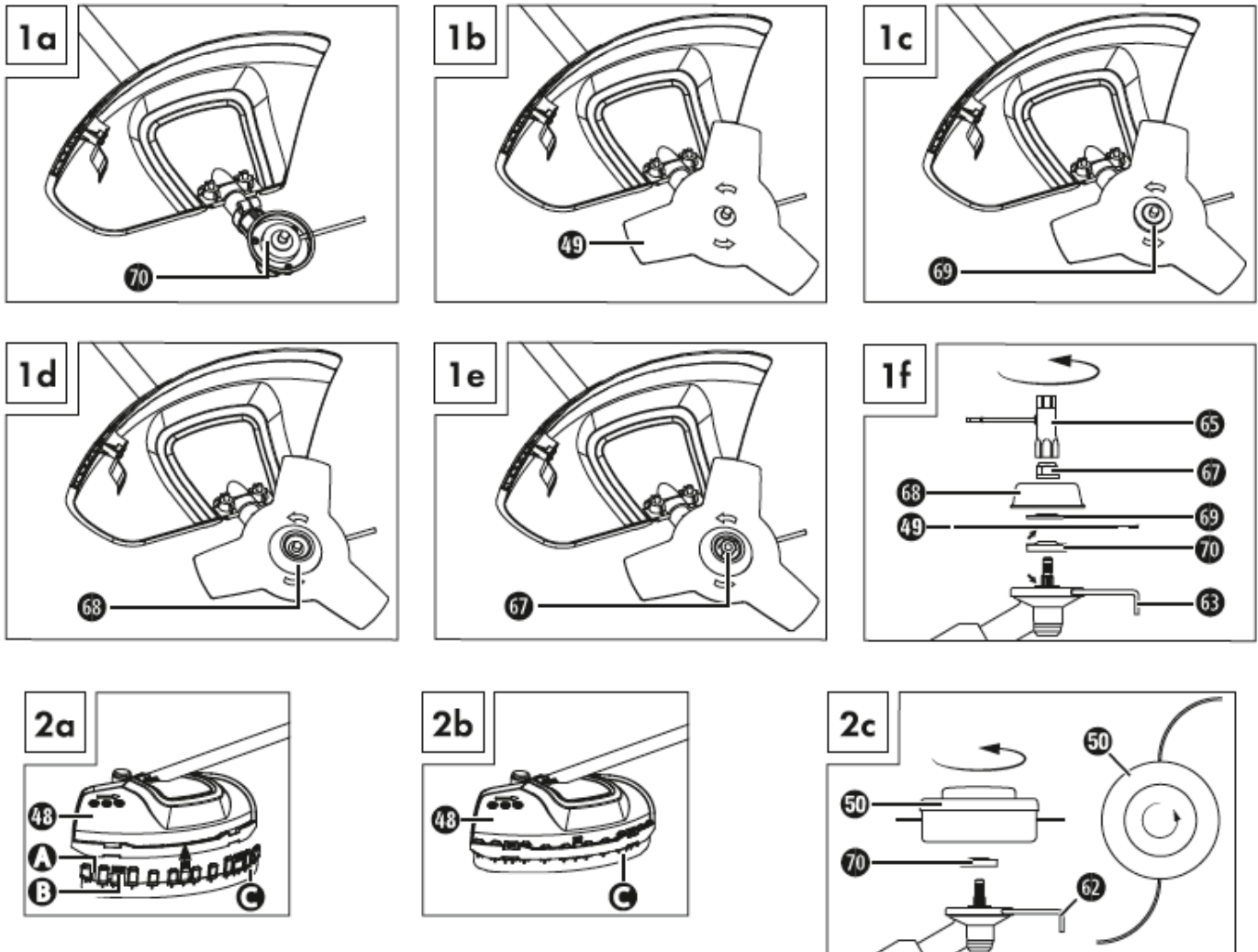
- Fold the metal sheet of the front boom **(51)** down slightly. The protective cover **(48)** is positioned between the metal sheet and the boom **(51)** mounting arm.
- The protective guard **(48)** is now attached to the front boom **(51)** with 4 screws **(47)**.
- Use the supplied Allen key and the open-ended spanner.



12.1.10 Installing/replacing the cutting blade

- Fit/remove the 3-section cutting blade as shown in Figures 1a–1f.
- Find the hole in the drive plate, align it with the opposite hole and block it with the supplied Allen key.
- Place the 3-section cutting blade on the drive plate (see Fig. 1b). The label must be visible in working position from above
- Fit the pressure plate over the thread on the splined shaft (see Fig. 1c).
- Fit the pressure plate cover (see Fig. 1d).
- Now tighten the nut 6 (with the spark plug wrench anti clockwise. **CAUTION! Left-hand thread!** (see Fig. 1f).
- The 3-section cutting blade is fitted with a plastic cover on delivery. This must be removed before use and refitted during periods when not in use.
- Fit the cutting Strimmer cord protective guard **C** on the protective guard.

- The cutting Strimmer cord protective guard **C** must be fitted when working with the cutting Strimmer cord. The cutting Strimmer cord protective guard **C** (pre-fitted on delivery) is fitted as shown in Figure 2a.
- Ensure that the cutting Strimmer cord protective guard **C** is correctly clicked into place. There is a blade **A** on the inside of the cutting Strimmer cord protective guard **C**. This is covered with a safety cover **B** (see Fig. 2a.).
- Remove the safety cover **B** before starting work and replace it after finishing work.
- To remove the cutting Strimmer cord protective guard **C** from the protective guard, take a tool, such as a screwdriver, to carefully remove the three mounting pins.



12.1.11 Installing/replacing the strimmer

- Fit/remove the strimmer as shown in Figure 2c.
- Find the hole in the drive plate, align it with the opposite hole and block it with the supplied Allen key.
- Screw the strimmer anticlockwise onto the thread. **CAUTION! Left-hand thread!**



13 OPERATION

Machine to be operated in a perfect state only. Inspect the device visually every time it is to be used. Check in particular the safety equipment, electrical controls, electric cables and screwed connection for damage and if tightened properly. Replace any damaged parts before operating the device.

13.1 Operation instructions

NOTICE

- **Shut off the machine and let it cool down before start any cleaning, upkeep, checks or maintenance!**
- **Operate the machine always with belt!**
- **In dangerous situations detach the machine with the quick release from shoulder strap**
- **Make sure the fuel and tank are in perfect condition before each start!**
- **Before using practice all working techniques with the engine stopped.**

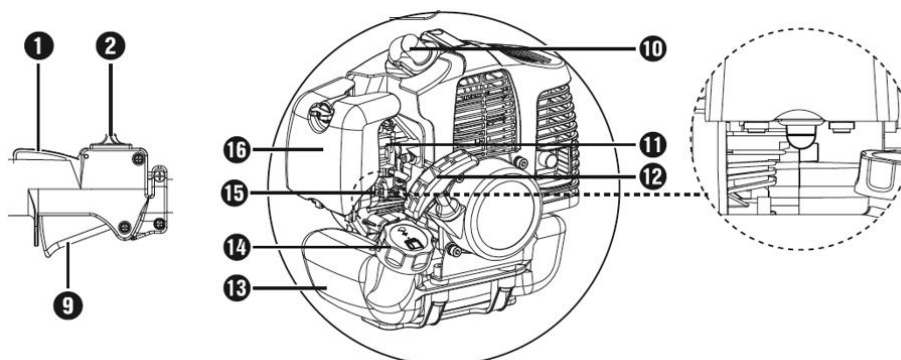
13.2 Operation

13.2.1 Cold start

WARNING

Always pull the starter pull cord straight out. Hold the handle of the starter pull cord firmly when the starter pull cord retracts. Do not allow the starter pull cord to whip back.

- 1.) Fill the fuel tank **(13)** with the right fuel.
- 2.) Press the primer **(15)** 6 x times.
- 3.) Switch the ON-OFF switch **(2)** to „I“.
- 4.) Pull the choke lever **(11)** to position „I“.
- 5.) Hold the appliance firmly and pull out the starter pull cord **(12)** to the point of first resistance. Now pull hard on the starter pull cord **(12)**. The machine starts.
- 6.) If the engine does not start, repeat steps 4–5.
- 7.) As soon as the engine is running, press the safety lock-out **(1)** and then press the throttle **(9)**, to activate the automatic choke.



13.2.2 Warm start

- 1.) Switch the ON-OFF switch **(2)** to „I“.
- 2.) The choke lever **(11)** does not need to be pulled out to start a warm motor.
- 3.) Hold the appliance firmly and pull out the starter pull cord **(12)** to the point of first resistance. Now pull hard on the starter pull cord **(12)**. The machine should start after 1-2 pulls. If the machine still hasn't started after 6 pulls, repeat steps 1–7 under "Cold start".



13.2.3 Switch off the engine

If you need to stop the appliance immediately, switch the ON-OFF switch **(2)** to „0“.

In normal sequence release the throttle lever **(9)** and wait until the engine has slowed down to its idling speed. Then switch the ON-OFF switch **(2)** to „0“.

13.3 Trimming / mowing

- Swing the appliance in a scything motion (see Fig. 6a).
- Hold the cutting tool parallel to the ground and set the desired cutting height.

Low trimming with trimmer:

- Hold the appliance with a slight incline to the ground (see Fig. 6b). Always cut away from your body. Never pull the appliance towards you.

Short mowing with trimmer:

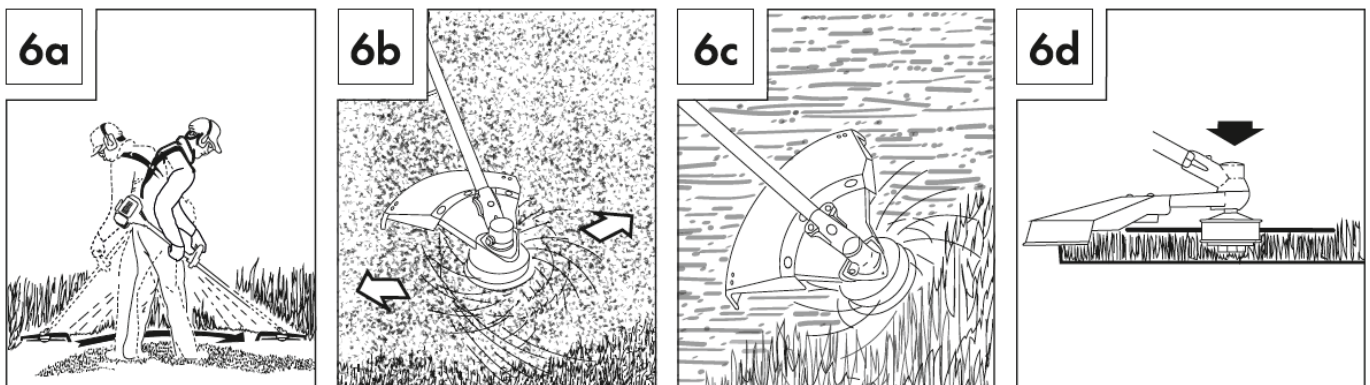
- Short mowing removes all the vegetation right down to the ground. Angle the trimmer 30° to the right. Set the handle to the desired position (see Fig. 6c).

Extending the cutting Strimmer cord:

- To lengthen the cutting Strimmer cord, rev the engine to full throttle and tap the trimmer on the ground. The Strimmer cord extends automatically.
- The knife A on the cutting Strimmer cord protective guard C cuts the thread to the permissible length (see Fig. 6d).

Jamming:

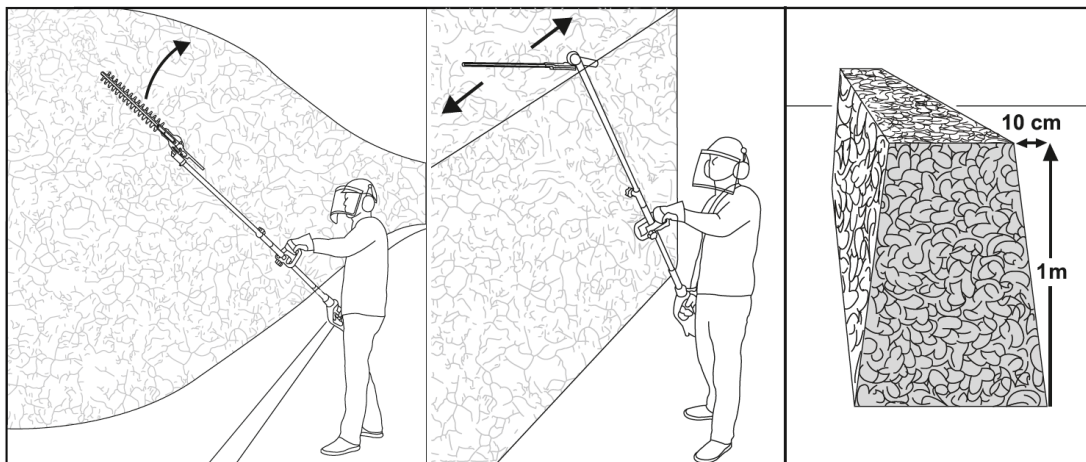
Immediately turn off the engine if the cutting tool becomes blocked. Remove all grass and scrub from the appliance before restarting the appliance.





13.4 Hedge trimmer

- The double-sided cutter bar allows cutting in both directions or by using swinging movements from one side to the other.
- For a vertical cut, move the hedge trimmer evenly forwards or up and down in an arc.
- For a horizontal cut, move the hedge trimmer in a scything motion along the edge of the hedge so that cut branches fall to the ground. Remove thicker branches with a branch cutter.



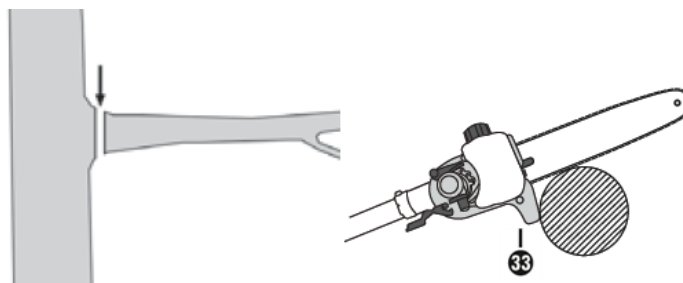
13.5 Pole pruner

WARNING

- Pay attention to falling clippings.
- Be aware of the danger of branches flying back.

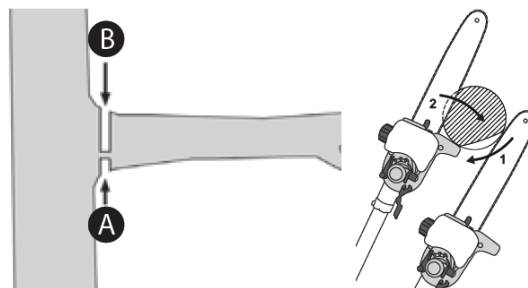
Sawing off small branches:

- Place the stop (33) on the branch. This will help you work more safely and quietly.
- Saw small branches (\varnothing 0–8 cm) from the top down.



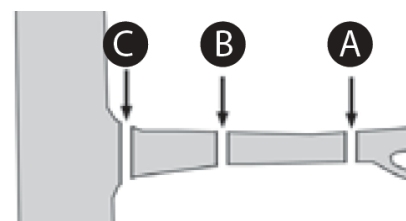
Sawing off larger branches:

- When sawing larger branches (\varnothing 8–25 cm), first make a relief cut A. A relief cut also prevents peeling of the bark on the main trunk.
- Saw from the top B to the bottom A.



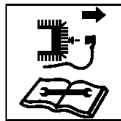
Saw in sections:

- Trim long or thick branches before you make the final cut.





14 MAINTENANCE



ATTENTION

Turn the machine off, disconnect the spark plug and let the machine cool down before performing any maintenance work!

The machine does not require intense maintenance. However, to ensure a long lifespan, we strongly recommend following the upkeep and maintenance plan.

Repairs must be carried out by specialists! Use original ZIPPER parts only!

Wear safety gloves if you are working on the cutting tool!

Damaged cutting tools may never be straightened or welded!

NOTICE

Only a properly maintained equipment may be a satisfactory tool. Care and maintenance deficiencies can cause unpredictable accidents and injuries.

Repairs should be performed only by authorized service centers.

Improper operation may damage the equipment or endanger your safety.

Controls for the maintenance of the machine	
Loose or lost screws, nuts, bolts	Regularly prior to each operation
Damage of any part of the machine	Regularly prior to each operation
Damage of cutting tools	Regularly prior to each operation
Fuel tank of tightness	Regularly prior to each operation
Machine cleaning	Regularly after operation
Lubricating the gears	Every 25 working hours
Cleaning spark plug	Every 25 working hours
Cleaning air filter	Every 25 working hours

14.1 Cleaning

Clean the machine and the working attachment from soil, dust, grass, chips, and small twigs, etc. Clean the machine housing with a wet cloth and a mild detergent.

NOTICE

Do not use cleaning agents or solvents; these could attack the plastic parts of the machine!

Put on all coatless flats a thin coat of oil.

14.1.1 Cleaning the pole pruner

- Remove the sprocket cover **(38)**.
- Remove the saw chain **(31)** from the blade **(30)** and clean the guide rail **(41)**.
- Keep the saw chain **(31)** and check the tension; check the oil level and the oil supply.

14.1.2 Cleaning the hedge trimmer

- Check the hedge trimmer for loose screws on the cutter bar **(20)** and tighten these if necessary.
- Remove stuck cuttings.
- Maintain the cutter bar **(20)** using an oil spray or an oil can.



14.1.3 Cleaning the trimmer/3-section cutting blade attachment

- Remove stuck cuttings.
- Keep the 3-section cutting blade sharp to facilitate your work.

14.1.4 Cleaning the air filter

Contaminated air filters reduce the engine performance due to low air supply to the carburettor.

Regular inspection is essential. The air filter **(I)** must be inspected after every 25 hours of operation and cleaned if necessary.

The air filter must be checked more frequently if the air is dusty.

- 1.) Remove the cover of the air filter housing **(16)**.
- 2.) Remove the air filter **(I)**.
- 3.) Clean the air filter **(I)** by tapping or blowing it out (with compressed air).
- 4.) Assembly takes place in the reverse order.

14.1.5 Spark plug

- 1.) Pull off the spark plug connector **(10)**.
- 2.) Unscrew the spark plug using the spark plug wrench supplied.
- 3.) Assembly takes place in the reverse order.

Electrode gap = 0.6 mm (distance between the electrodes between which the ignition spark is generated). Check the spark plug for contamination after the first 10 hours of operation and clean it with a copper wire brush if required. Afterwards, service the spark plug after every 25 hours of operation.

14.1.6 Carburettor

NOTICE

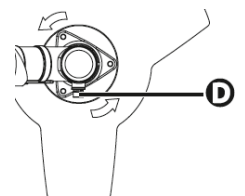
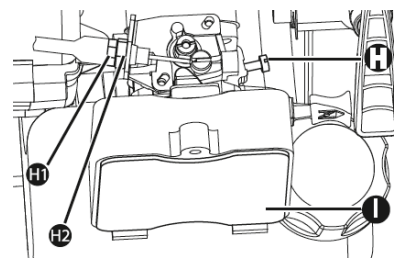
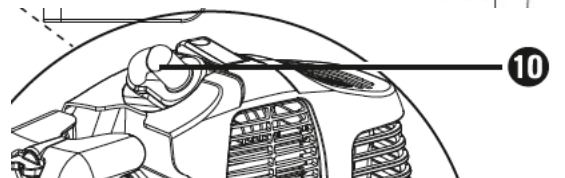
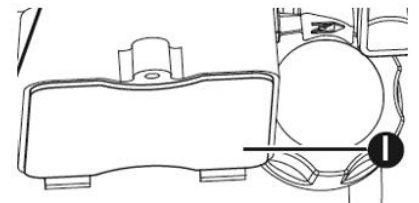
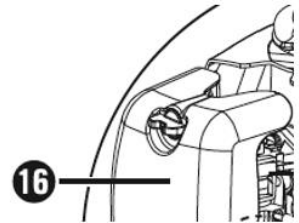
Carburetor adjustments should be carried out only by trained specialist personnel!

14.1.7 Adjusting the throttle cable

If the appliance no longer reaches maximum speed after a while and all other causes as described in the "Troubleshooting" section have been ruled out, this may mean that the throttle cable needs to be adjusted. To adjust the throttle cable, screw in the screw **(H)** or the adjusting screw **(H1)** as well as the lock nut **(H2)** correctly.

14.1.8 Lubricating the gears

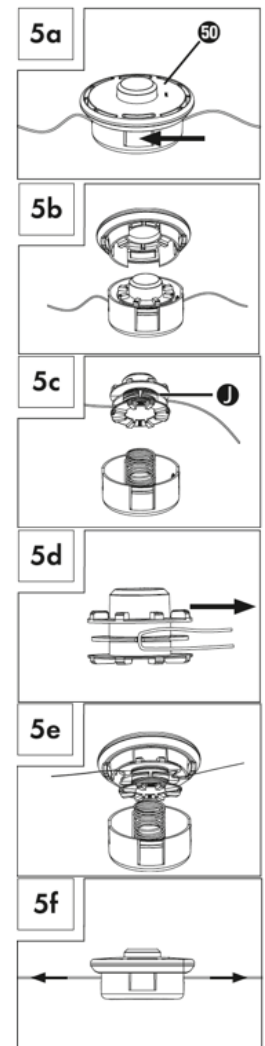
- To do this, undo the screw **(D)** to press the gear grease into the gear housing.
- After filling the gearbox, close the lubrication hole with the screw **(D)**.





14.2 Replacing the trimmer/cutting trimmer cord

- 1.) The trimmer (**50**), is removed as described in the section Installing/replacing the trimmer. Press the marking (see Fig. 5a), turn the cover and remove one half of the casing (see Fig. 5b).
- 2.) Remove the spool bobbin (**J**) from the trimmer housing (see Fig. 5c).
- 3.) Remove any remaining cutting Trimmer cord.
- 4.) Double the new cutting Trimmer cord in the middle and hook the loop that you have made into the recess on the spool bobbin (see Fig. 5d).
- 5.) Wind the Trimmer cord tightly in an anticlockwise direction. The spool bobbin (**J**) separates the two halves of the cutting Trimmer cord (see Fig. 5d).
- 6.) Hook the last 15 cm of the two ends of the Trimmer cord into the opposite Trimmer cord holders (**J**) (see Fig. 5e).
- 7.) Guide the two ends of the Trimmer cord through the metal lugs in the trimmer housing (see Fig. 5e).
- 8.) Press the spool bobbin (**J**) into the trimmer housing (see Fig. 5e).
- 9.) Reconnect the two halves of the housing.
- 10.) Pull hard on the two ends of the Trimmer cord to free them from the Trimmer cord holders (see Fig. 5f).
- 11.) Cut any excess Trimmer cord back to about 13 cm. This reduces the load on the engine when starting and warming up.
- 12.) Refit the trimmer (see section "Installing/replacing the trimmer"). Skip points 3–6 if you are replacing the entire trimmer.



14.3 Storage

If the machine will be stored longer than 30 days:

- Empty Tank completely, avoid fuel spillage.
- To remove all fuel from the carburettor, start the engine and leave it to run until it stops.
- Let the machine cool down.
- Remove and clean cutting tools.
- Fit the guards
- Clean the machine and dry
- Store in a dry, out of reach of children place, well packaged (protection against cuts)

14.4 Disposal

Do not dispose the machine, machine components fuel and oil in residual waste. Contact your local authorities for information regarding the available disposal options. When you buy at your local dealer for a replacement unit, the latter is obliged to exchange your old.





15 TROUBLE SHOOTING

Trouble	Possible cause	Solution
Engine does not start	• Incorrect starting sequence	• Observe the correct starting sequence
	• Dirty air filter	• Clean/replace air filter
	• No fuel supply	• Refuel
	• Fault in the fuel line	• Check the fuel line for kinks or damages
	• Engine flooded.	• Screw off, clean and dry the spark plug. Then pull the cranking rope several times and reinstall the spark plug
	• Spark plug connector not placed on.	• Place on the spark plug connector
	• No ignition spark	• Clean/replace spark plug • Check ignition cable
Engine starts and is stalled immediately	• Incorrect idle adjustment	• Contact customer service
Machine works with interruptions	• Carburetor incorrectly adjusted	• Contact customer service
	• Spark plug fouled	• Clean/replace spark plug • Check spark plug connector
Smoke	• Incorrect fuel mixture (2-stroke engine)	• Use correct fuel mixture
	• Carburetor incorrectly adjusted	• Contact customer service
Machine does not work with full performance	• Machine overloaded	• Too much pressure • Cutting material too tough
	• Dirty air filter	• Clean/replace air filter
	• Carburetor incorrectly adjusted	• Contact customer service
Blade rotates at idling	• Idle speed too high	• Adjust a lower idle speed
Blade rotates but has no power	• Choke is ON	• Set Choke to OFF
Bad cuts	• Foreign material wrapped, grass around the sheet	• Shut machine off, wait until cutter stands still, remove the winded up material
	• Long grass	• Remove material
	• Blunt saw blade	• Sharpen or replace saw blade



NOTICE

Should you in necessary repairs not able to properly to perform or you have not the prescribed training for it always attract a workshop to fix the problem.