

Operating Instructions Petrol Brush Cutter




GARDENLINE®



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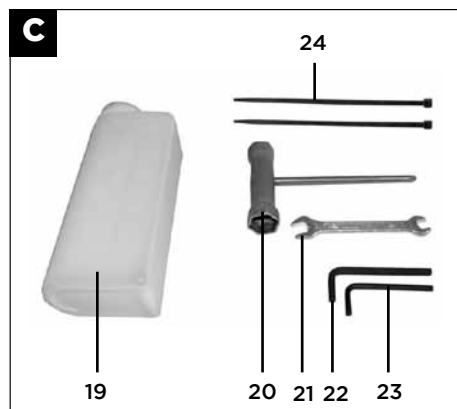
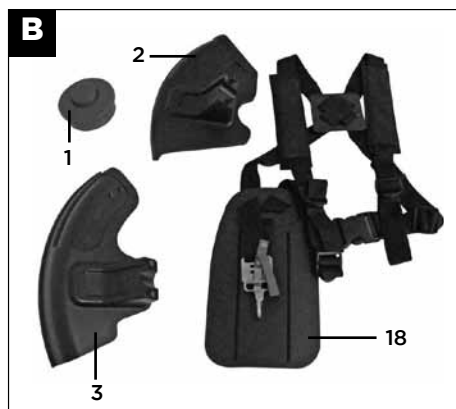
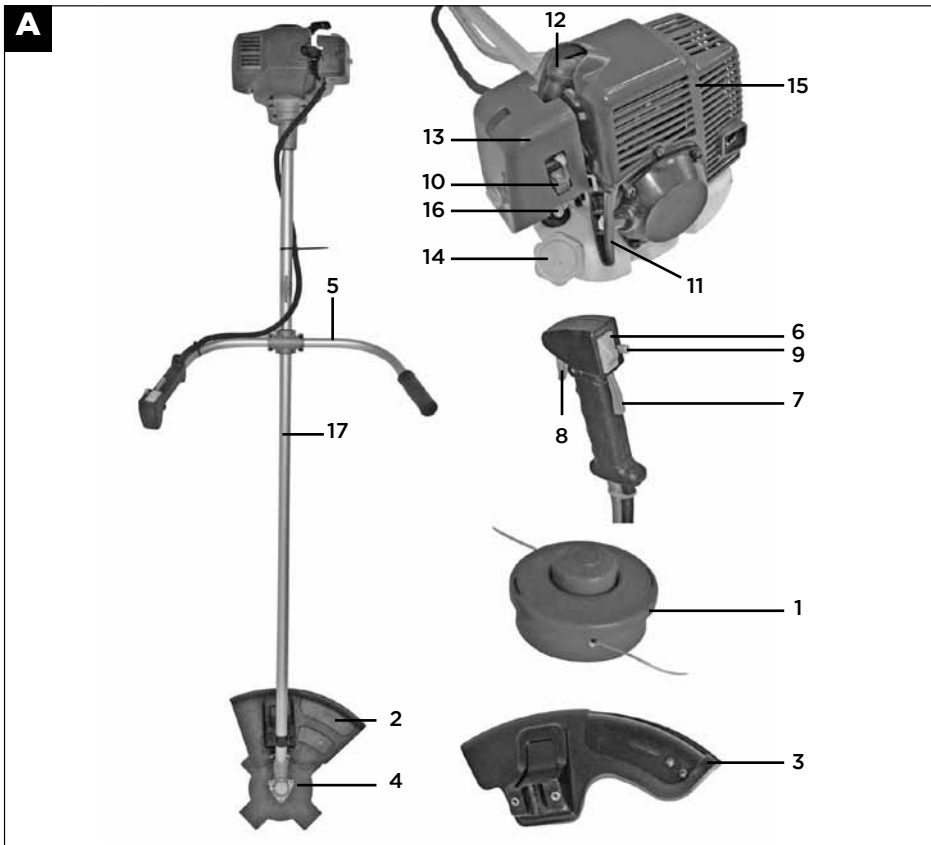
Petrol Brush Cutter

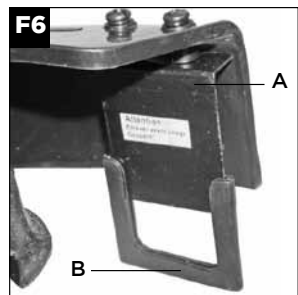
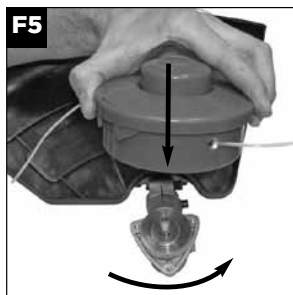
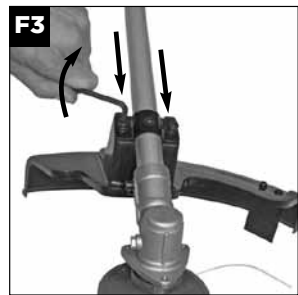
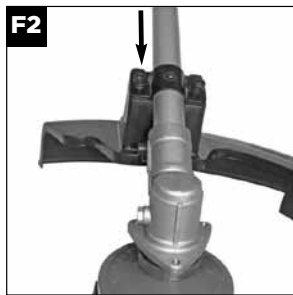
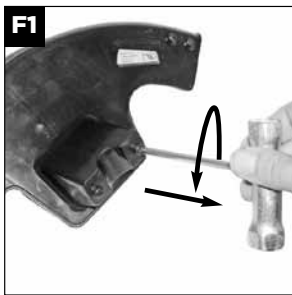
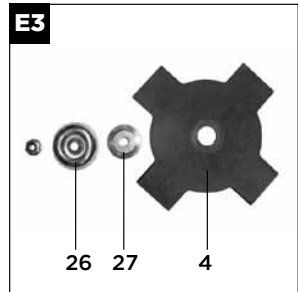
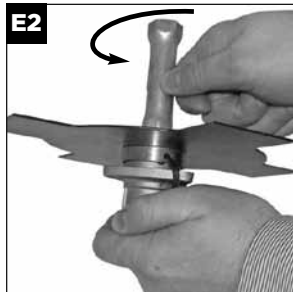
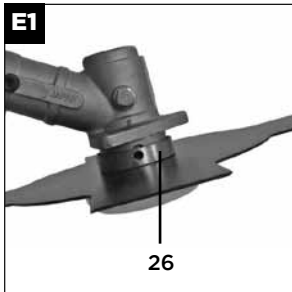
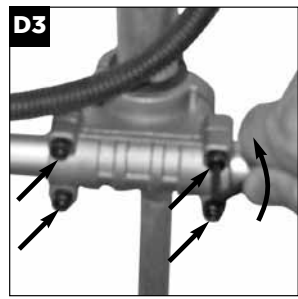
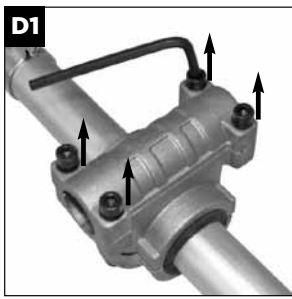
What your 1 year warranty means

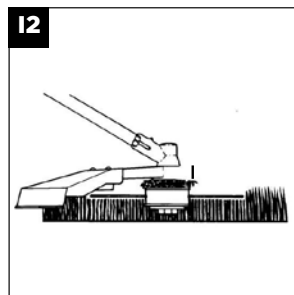
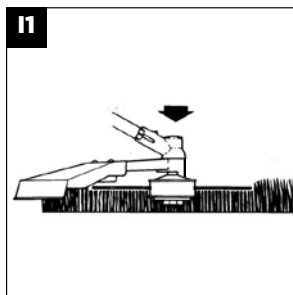
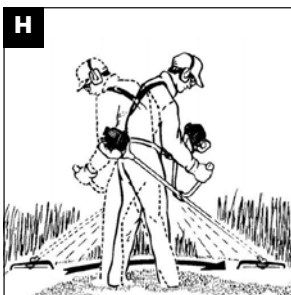
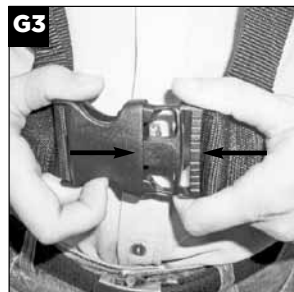
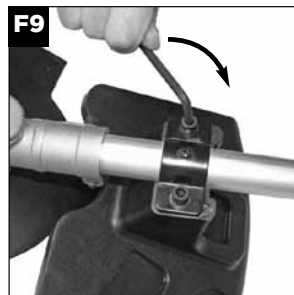
Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly. In the event of product failure within its intended use over the course of the first 1 year after the date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product please contact us via our after sales support services, details of which can be found in this manual and on the product itself.

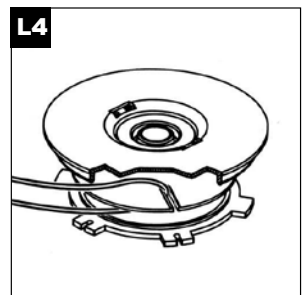
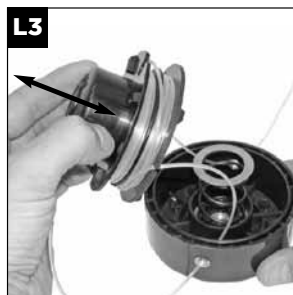
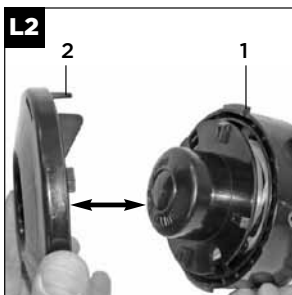
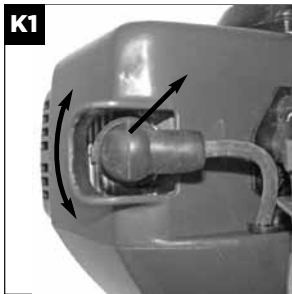
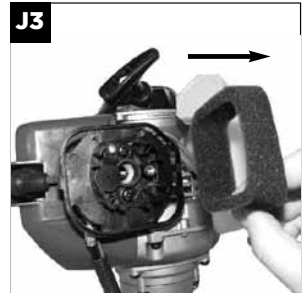
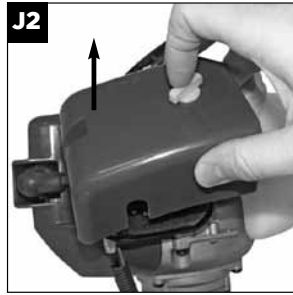
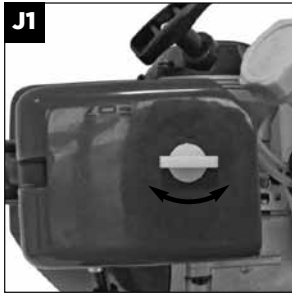
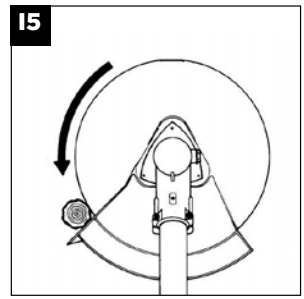
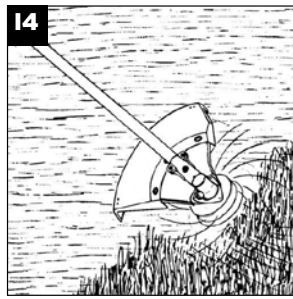
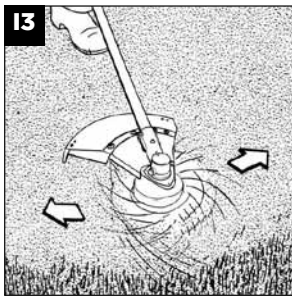
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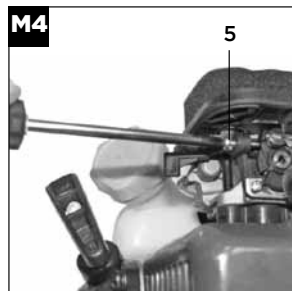
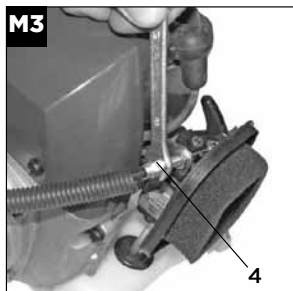
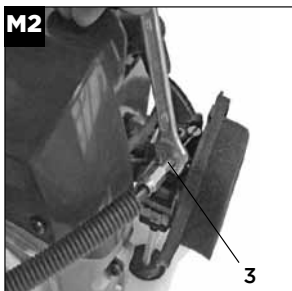
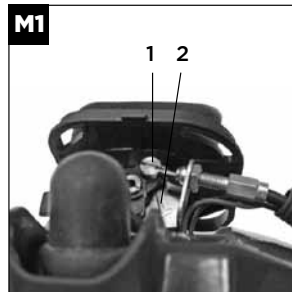
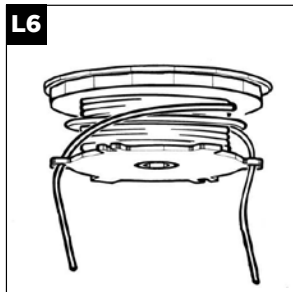
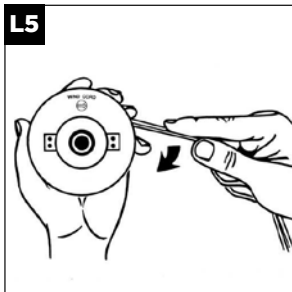
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Important!

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

1. Safety regulations

The corresponding safety information can be found in the enclosed booklet.

CAUTION!

Read all safety regulations and instructions.

Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

Keep all safety regulations and instructions in a safe place for future use.

Safety devices

When working with the equipment, the appropriate plastic guard hood for cutting blade mode or cutting line mode must be fitted to prevent objects being thrown out by the equipment.

The integrated blade in the cutting line guard hood automatically cuts the line to the optimum length.

2. Machine description and items supplied (Fig. A – C)

1. Line spool with cutting line
2. Guard hood for cutting blade
3. Guard hood for cutting line
4. Cutting blade
5. Steady grip
6. Engine switch "ON/OFF"
7. Throttle lock
8. Throttle lever
9. Throttle lever "lock"
10. Choke lever
11. Starter cable
12. Spark plug boot
13. Air filter housing cover
14. Petrol tank
15. Housing for engine cooler

16. Fuel pump "primer"
17. Long handle with drive shaft
18. Carrying strap
19. Combined oil/petrol cylinder
20. Spark plug wrench
21. Open-ended spanner (8 mm / 10 mm)
22. Allen key (size 4)
23. Allen key (size 6)
24. 2 x cable ties

3. Proper use

The machine is designed for cutting lawns and grassed areas. The operating instructions as supplied by the manufacturer must be kept and referred to in order to ensure that the machine is properly used and maintained. Any use which is not expressly permitted in the manual may result in damage to the machine and place the user in serious danger. Be sure to observe the restrictions in the safety instructions. Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the equipment is used in commercial, trade or industrial businesses or for equivalent purposes.

Important. Due to the high risk of bodily injury to the user, the petrol power scythe must not be used to carry out the following work: to clean (suck up) dirt and debris off walkways, or to chop up tree or hedge clippings. Moreover, the petrol power scythe may not be used to level out high areas such as molehills. For safety reasons, the petrol power scythe may not be used as a drive unit for other work tools or toolkits of any kind.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

4. Technical data

Engine type:	2-stroke engine, air-cooled, chrome cylinder
Engine power (max.)	1.45 kW/2.0 hp
Displacement	42.7 cc
Idle speed of engine	2,800 +/- 200 rpm
Max Engine Speed • Brush Cutter • Trimmer	9,000 rpm 8,400 rpm
Max Twin Line Speed • Brush Cutter • Trimmer	6,750 rpm 6,300 rpm
Ignition	Electronic
Drive	Centrifugal clutch
Weight (with empty tank)	7.0 kg
Long handle length	150 cm
Cutting circle diameter of line	Ø 41 cm
Cutting circle diameter of blade	Ø 23 cm
Cutting line length	8.0 m
Cutting line diameter:	2.0 mm
Tank capacity	0.8 L
Spark plug	NGK BPMR7A Champion RCJ6Y/LDL7T / L8RTF
Petrol consumption (in accordance with ISO 8893) at max. engine power	0.9 kg/h
Specific fuel consumption (in accordance with ISO 8893) at max. engine power	536 g/kWh
Vibration a_{hv} Idling speed (max.) Idling speed (max.)	5.1 m/s ² 7.4 m/s ²
L_{pA} sound pressure level Idling speed (max.) In operation (max.)	77 dB (A) 114 dB (A)
L_{WA} sound power level Idling speed (max.) In operation (max.)	97 dB (A) 114 dB (A)

Sound and vibration were measured in accordance with DIN EN 11806.

5. Installation

5.1 Installing the long handle

Do not tighten the screws until you have set the perfect working position with the carrying strap. The long handle should be aligned as shown in Figure A.

5.2 Fitting / Replacing the blade (Fig. E1 - E3)

When the machine is supplied the blade is readyfitted. Therefore we will first explain how to remove it.

- Line up the hole in the carrier plate (Fig. E1/Item 26) with the notch beneath it and lock the carrier plate with the size 6 Allen key (Fig. E1/E2)
- Remove the securing nut for the blade using the supplied spark plug wrench (Fig. E2).
Important: Left-hand thread!
- Remove the pressure plate cover (Fig. E3/Item 26) and the pressure plate (Fig. E3/Item 27)
- The blade (Fig. E3/Item 4) can now be removed.
- To assemble, proceed in reverse order. Please note that the side of the pressure plate (Fig. E3/Item 26) with the recess must point towards the blade.

5.3 Installing the cutting line guard hood

Important: The cutting line guard hood must be fitted if you wish to work with the cutting line. The guard hood for the cutting line must be installed as shown in Figures F1 - F3. A blade (Fig. F6/Item A) on the underside of the guard hood automatically cuts the cutting line to the optimum length. This is covered by a guard (Fig.F6/Item B). Remove the guard before you start working and replace it when you have finished working.

5.4 Fitting / Replacing the line spool

Line up the hole in the carrier plate with the notch beneath it and lock the carrier plate with the size 6 Allen key (Fig. F4). Secure the line spool on to the locating pin (Fig. F5).

Important: Left-hand thread!
To dismantle, proceed in reverse order.

5.5 Mounting the blade guard hood

Important: The cutting blade guard hood must be fitted if you wish to work with the cutting blade. The guard hood for the cutting blade must be installed as shown in Figures F7 - F9.

6. Before starting the machine

Check that all moving parts move smoothly before you start using the machine. Check that all screw connections are securely fastened and also check all the safety devices.

6.1 Setting the cutting height

- Fit the carrying strap as shown in Figures G1 – G3.
- Hook the machine to the carrying belt (Fig. G4).
- Adjust the perfect working and cutting position using the various strap adjusters on the carrying strap (Fig. G5).
- In order to establish the optimum length of the carrying strap, you should then make a few swinging movements without starting the engine (Fig. H).

The carrying strap is fitted with a quick-release mechanism. Pull the red strap section (Fig. G6) if you need to remove the strap quickly.

Important: Always use the strap when working with the machine. Attach the strap as soon as you have started the engine and it is running in idle mode.

Switch off the engine before you take off the carrying strap.

Check the machine for the following each time before use:

- That there are no leaks in the fuel system
- That the cutting unit and all safety devices are in perfect condition
- That all screws are securely fastened

6.2 Fuel and oil

Recommended fuels

Use only a mixture of normal unleaded petrol and special 2-stroke engine oil. Mix the fuel mixture as indicated on the fuel mixing table.

Please note: Do not use a fuel mixture which has been kept for longer than 90 days.

Please note: Do not use 2-stroke oil with a recommended mixing ration of 100:1. If inadequate lubrication causes engine damage, the manufacturer's engine warranty will be voided.

Please note: Only use containers designed and approved for the purpose to transport and store fuel.

Pour the correct quantities of petrol and 2-stroke oil into the mixing bottle (see scale printed on the bottle). Then shake the bottle well.

6.3 Fuel mixture table

Mixing procedure: 25 parts petrol to 1 part oil

Petrol	2-Stroke Oil
1 Litre	40 ml
2 Litres	200 ml

7. Operation

Please note that the statutory regulations governing noise abatement may differ from town to town.

7.1 Starting the engine when cold

Fill the tank with the required amount of oil/petrol mix. See "Fuel and oil".

1. Set the machine down on a hard, level surface.
2. Set the choke lever (Fig. A/Item 10) to " # ".
3. Press the fuel pump (primer) (Fig. A/Item 16) 10 times.
4. Switch the ON/OFF switch (Fig. A/Item 6) to "I".
5. Secure the throttle lever. To do so, actuate the throttle lock (Fig. A/Item 7) and then actuate the throttle lever (Fig. A/Item 8) while pressing the locking button (Fig. A/Item 9) at the same time to secure the throttle lever.
6. Hold the machine firmly and pull out the starter cable (Fig. A/Item 11) until you feel it start to resist. Then tug sharply on the starter cable 4 times. The machine should start.
Please note: Never allow the starter cable to snap back. This may damage the machine.
7. Once the engine has started, move the choke lever immediately to " + " and allow the machine to warm up for approx. 10 seconds.
Please note: Since the throttle lever is secured, the cutting tool starts to operate when the engine is started. Then release the throttle lever by simply actuating it (the engine then returns to running in idle mode).
8. If the engine does not start up, repeat steps 6-7 above. **Please note:** If the engine does not start up even after several attempts, read the section "Engine Troubleshooting".

Please note: Always pull the starter cord out in a straight line. If it is pulled out at an angle, then friction will occur on the eyelet. As a result of this friction, the cable will become frayed and will wear away faster. Always hold the starter handle when the cable retracts. Never allow the cable to snap back when it has been pulled out.

7.2 Starting the engine when warm

(if the machine has not been switched off for more than 15 – 20 minutes)

1. Set the machine down on a hard, level surface.
2. Switch the ON/OFF switch to "I".
3. Secure the throttle lever (in the same way as described in "Starting the engine when cold").
4. Hold the machine firmly and pull out the starter cable until you feel it start to resist. Then tug sharply on the starter cable. The machine should start after 1-2 tugs. If the machine does not start after 6 pulls, repeat steps 1 – 7 of the procedure for starting the engine from cold.

7.3 Switching off the engine

Emergency Stop procedure:

If it becomes necessary to stop the machine immediately, set the ON/OFF switch to "Stop" or "O"

Normal procedure:

Let go of the throttle lever and wait until the engine has changed to idling speed. Then set the ON/OFF switch to "Stop" or "O".

7.4 Practical tips

Practice all operating techniques with the engine switched off before you start to use the machine.

EXTENDING THE CUTTING LINE

WARNING: Do not use any kind of metal wire or metal wire encased in plastic in the cutting head. This may cause serious injuries to the user. To extend the cutting line run the motor at full speed and tap ("BUMP") the cutting head on the ground. This will automatically extend the line. The blade on the safety shield will cut the line to the appropriate length (Fig. I1).

Caution: Remove all grass and weed remains at regular intervals to prevent the shaft tube overheating. Grass and weed remains become trapped under the safety shield (Fig. I2) and they prevent the shaft tube receiving adequate ventilation. Remove the remains carefully using a screwdriver or the like.

DIFFERENT CUTTING METHODS

If the machine is correctly assembled with the safety hood and cutting head it will cut weeds and long grass in places with difficult access, for example along fences, walls and foundations and also around trees. It can also be used for mowing work to remove vegetation to allow the better preparation of a garden or to clear a certain area down to the soil.

PLEASE NOTE: Even if it is used carefully, cutting around foundations, stone or concrete walls, etc. will result in the line suffering more than normal wear.

TRIMMING / MOWING

Swing the trimmer from side to side in a scything motion. Always keep the cutting head parallel to the ground. Check the site and decide what cutting height you require. Guide and hold the cutting head at the required height to ensure that you cut evenly (Fig. I3).

LOWER TRIMMING

Hold the trimmer right in front of you at a slight angle so that the underside of the cutter head is above the ground and the line strikes the correct target. Always cut away from yourself. Never draw the trimmer towards yourself.

CUTTING ALONG FENCES / FOUNDATIONS

When cutting approach wire mesh fences, lath fences, natural stone walls and foundations slowly so that you can cut close to them without striking the obstacle with the line. If, for example, the line strikes stones, stone walls or foundations, it will wear or fray. If the line strikes wire fencing it will break.

TRIMMING AROUND TREES

When trimming around tree trunks, approach slowly so that the line does not strike the bark. Walk around the tree, cutting from left to right. Approach grass or weeds with the tip of the line and tilt the cutting head forwards slightly.

WARNING: Take extreme care during mowing work. When doing such work keep a distance of 30 meters between yourself and other people or animals.

MOWING

For mowing you want to cut all the vegetation down to the ground. To do this, set the cutting head at an angle of 30° to the right. Place the handle in the required position. Remember the increased risk of injury to the user, watchers and animals and the danger of damaging other items due to objects (for example stones) being thrown out (Fig. I4).

WARNING: Do not remove any objects from footpaths, etc. using the trimmer. The trimmer is a powerful tool and can throw small stones and other objects a distance of 15 meters or more, causing injuries and damage to cars, houses and windows.

SAWING

The equipment is not suitable for sawing.

JAMMING

If the blade jams as a result of attempting to cut vegetation that is too dense, switch off the motor immediately.

Remove the grass and scrub from the equipment before you restart it.

PREVENTING RECOIL

When you work with the blade there is a risk of recoil if it strikes solid objects such as tree trunks, branches, tree stumps, stones or the like. This will throw the equipment backwards in the direction opposite to the rotation of the tool.

This can cause you to lose control of the equipment. Do not use the metal blade near fences, metal posts, boundary stones or foundations.

For cutting dense stalks, position it as shown in Fig. 15 to prevent recoil.

8. Maintenance

Always switch off the machine and pull out the spark boot plug before carrying out any maintenance work.

8.1 Replacing the line spool / cutting line

1. Press the line spool housing together (Fig. L1) below the two lugs (Fig. L2/Item 1) and remove the line spool cover (Fig. L2/Item 2).
2. Take the line spool out of the line spool housing (Fig. L3). Make sure that you do not lose the spring or the washers.
3. Remove any remaining cutting line.
4. Place the new cutting line in the center and attach the resulting loop to the recess in the spool splitter (Fig. L4)
5. Wind the line on to the spool counter-clockwise with tension. The spool splitter will separate the two halves of the nylon line (Fig. L5)
6. Hook the last 15 cm of the two ends of the line to the line holders opposite the line spool (Fig. L6)
7. Thread the two ends of the line through the metal eyelets in the line spool housing (Fig. L3).
8. Press the line spool into the line spool housing. Ensure that the spring and washers are in the correct position (Fig. L3)
9. Press the line spool cover on to the line spool housing. Ensure that the two lugs (Fig. L2/Item 1) in the line spool housing lock into the appropriate recesses (Fig. L2/Item 2) in the line spool cover.
10. Pull the two line ends briefly and powerfully to release them from the line holders in the line spool.
11. Cut the excess line to a length of around 13 cm. This will reduce the load on the engine when

starting up and warming up.

12. Fit the line spool again. See point 5.4.

If you are replacing the complete line spool, ignore points 3 - 6.

8.2 Maintenance of the air filter (Fig. J1-J3)

Soiled air filters reduce the engine output by supply too little air to the carburetor.

Regular checks are therefore essential. The air filter should be checked after every 25 hours of use and cleaned if necessary. If the air contains a lot of dust, the air filter should be checked more frequently.

1. Remove the air filter cover (Fig. J1-J2)
2. Remove the filter element (Fig. J3)
3. Clean the filter element by tapping it or blowing it.
4. Assemble in reverse order.

Please note: Never clean the air filter with petrol or inflammable solvents. Clean the air filter with compressed air or by tapping it.

8.3 Maintenance of the spark plug (Fig. K1-K2)

Spark plug gap = 0.6 mm. Tighten the spark plug with a torque of 12-15 Nm.

Check the spark plug for dirt and grime after 10 hours of operation and if necessary clean it with a copper wire brush. Thereafter service the spark plug after every 50 hours of operation.

1. Pull off the spark plug boot (Fig. K1) by twisting.
2. Remove the spark plug (Fig. K2) with the supplied spark plug wrench.
3. Assemble in reverse order.

8.4 Grinding the safety hood blade

The safety hood blade (Fig. F6/Item A) can become blunt over time. When you notice this, undo the two screws holding the safety hood blade to the safety hood. Clamp the blade in a vise. Sharpen the blade with a flat file and make sure that the angle of the cutting edge is not altered in the process. File in one direction only.

8.5 Carburetor settings

Important. Settings on the carburetor may only be made by authorized customer service personnel. The air filter cover must be removed before any work on the carburetor, as shown in Figures J1-J2.

Setting the throttle cable: If the maximum speed of the machine falls over time

and you have ruled out all the other causes listed in section 10 Troubleshooting, it may be necessary to adjust the throttle cable.

First of all check whether the carburetor opens fully when the throttle handle is pressed fully. This is the case if the carburetor slide (Fig. M1/Item 1) rests

against the stop (Fig. M1/Item 2) when the throttle is fully open. Figure M1 shows the correct setting. If the carburetor slide does not touch the stop, it must be adjusted.

The following work is required to adjust the throttle cable:

- Undo the lock nut (Fig. M2/Item 3) a few turns.
- Undo the adjusting screw (Fig. M3/Item 4) until the carburetor slide rests against the stop when the throttle is fully open, as shown in Figure M1.
- Retighten the lock nut.

Setting the idling speed:

Important. Set the idling speed when the machine is warm.

If the engine stalls when the throttle is not pressed and you have ruled out all the other causes listed in section 10 Troubleshooting, the idling speed must be adjusted. To do this turn the idling speed screw (Fig. M4/Item 5) clockwise until the machine runs smoothly at idling speed. If the idling speed is so fast that the cutting tool turns as well, it has to be reduced by turning the idling speed screw counter-clockwise (Fig. M4/Item 5) for as long as is required for the cutting tool to stop turning as well.

8.6 Environmental protection

Dispose of soiled maintenance material and operating materials at the appropriate collection point. Recycle packaging material, metal and plastics.

8.7 Storage

Please note: If you fail to follow these instructions correctly, deposits may form on the interior of the carburetor which may result in the engine being more difficult to start or the machine suffering permanent damage.

1. Carry out all the maintenance work.
2. Drain the fuel out of the tank (use a conventional plastic petrol pump from a DIY store for this purpose).
3. When the fuel has been drained, start the engine.
4. Allow the engine to run at idling speed until it stops. This will clean the remainder of the fuel out of the carburetor.
5. Leave the machine to cool (approx. 5 minutes).
6. Remove the spark plug.
7. Place a teaspoon full of 2-stroke engine oil into the combustion chamber. Pull the starter cable several times carefully to wet the internal components with the oil. Fit the spark plug again.
8. Clean the exterior housing of the machine.
9. Store the machine in a cold, dry place where it is out of the reach of ignition sources and inflammable substances.

Fertilizers and other chemical garden products often contain substances that accelerate the rate of corrosion of metals. Do not store the machine on or near fertilizers or other chemicals.

Restarting

1. Remove the spark plug.
2. Pull the starter cable several times to clean the oil residue out of the combustion chamber.
3. Clean the spark plug contacts or fit a new spark plug.
4. Fill the tank. See the section entitled Fuel and oil.
5. Complete steps 1-7 described under the point entitled "Starting the engine from cold".

8.8 Transport

To transport the machine, first empty the petrol tank as described in section 10 in the section entitled "Storage". Clean coarse dirt off the machine with a brush or hand brush. Dismantle the long handle.

8.9 Ordering replacement parts

Please quote the following data when ordering replacement parts:

- Type of machine
- Article number of the machine
- Identification number of the machine
- Replacement part number of the part required

9. Disposal and recycling

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.

The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.

10. Troubleshooting

Fault	Possible cause	Troubleshooting
The machine does not start.	Correct starting procedure not followed.	Follow the instructions for starting.
	Sooted or damp spark plug	Clean the spark plug or replace it with a new one.
	Incorrect carburetor setting	Contact an authorized customer service outlet.
The machine starts but does not develop its full output.	Incorrect choke lever setting	Set choke lever to ⚡
	Soiled air filter	Clean the air filter
	Incorrect carburetor setting	Contact an authorized customer service outlet.
The engine does not run smoothly.	Incorrect electrode gap on the spark plug	Clean the spark plug and adjust the electrode gap or fit a new spark plug.
	Incorrect carburetor setting	Contact an authorized customer service outlet.
Engine smokes excessively	Incorrect fuel mix	Use the correct fuel mix (see fuel mixing table)
	Incorrect carburetor setting	Contact an authorized customer service outlet.



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