



Operator's manual
531RS, 541RS, 541RST

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



English

KEY TO SYMBOLS

Symbols

WARNING! A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this operator's manual.

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

Always wear:

- Wear a protective helmet where there is a risk of falling objects
- Approved hearing protection
- Approved eye protection

Max. speed of output shaft, rpm



Watch out for thrown objects and ricochets.



The operator of the machine must ensure, while working, that no persons or animals come closer than 15 meters.



Machines fitted with saw blades or grass blades can be thrown violently to the side when the blade comes into contact with a fixed object. This is called blade thrust. The blade is capable of amputating an arm or leg. Always keep people and animals at least 15 meters from the machine.



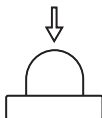
Arrows which show limits for handle positioning.



Ignition; choke: Set the choke control in the choke position. This should automatically set the stop switch to the start position.



Air purge.



Always wear approved protective gloves.



Wear sturdy, non-slip boots.



Noise emission to the environment according to the European Community's Directive. The machine's emission is specified in the Technical data chapter and on the label.



Keep all parts of your body away from hot surfaces.

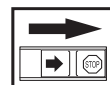


Other symbols/decals on the machine refer to special certification requirements for certain markets.

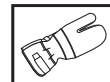
The type plate showing production number. **yyyy** is the production year, **ww** is the production week and **xxxxx** is the serial number.

yyyywwxxxxx

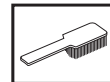
Switch off the engine by moving the stop switch to the STOP position before carrying out any checks or maintenance.



Always wear approved protective gloves.



Regular cleaning is required.



Visual check.



Approved eye protection must always be used.



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Note the following before starting:

Please read the operator's manual carefully.



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



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



WARNING! A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this operator's manual.

INTRODUCTION

Dear Customer,

Congratulations on your choice to buy a Husqvarna product! Husqvarna is based on a tradition that dates back to 1689, when the Swedish King Karl XI ordered the construction of a factory on the banks of the Husqvarna River, for production of muskets. The location was logical, since water power was harnessed from the Huskvarna River to create the water-powered plant. During the more than 300 years in existence, the Husqvarna factory has produced a lot of different products, from wood stoves to modern kitchen appliances, sewing machines, bicycles, motorcycles etc. In 1956, the first motor driven lawn mowers appeared, followed by chainsaws in 1959, and it is within this area Husqvarna is working today.

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

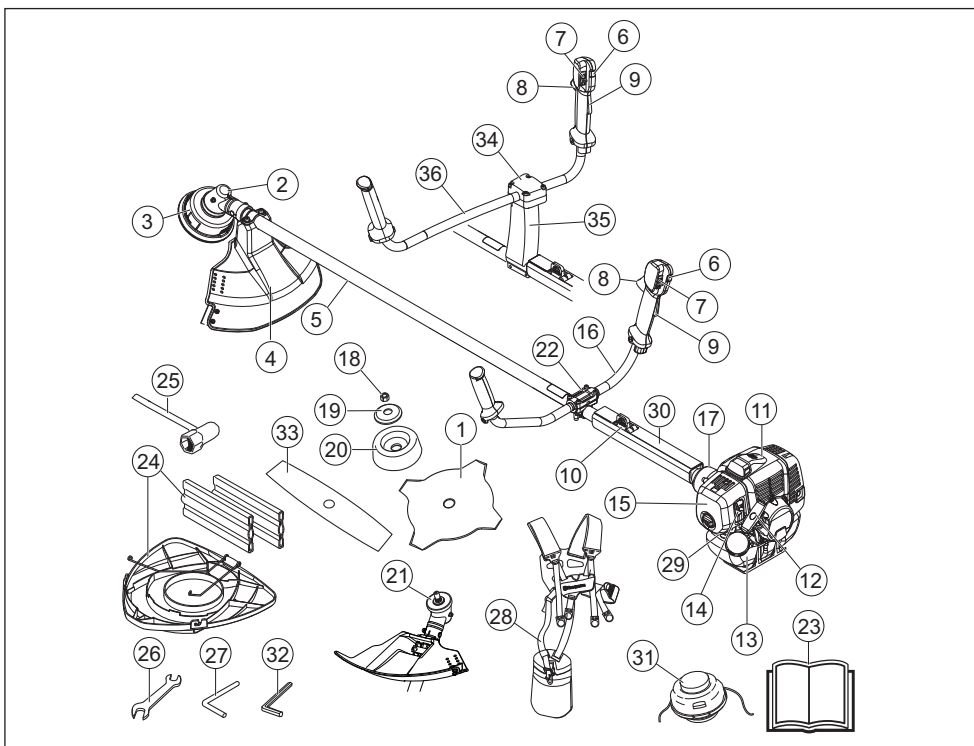
We are convinced that you will appreciate with great satisfaction the quality and performance of our product for a very long time to come. The purchase of one of our products gives you access to professional help with repairs and service whenever this may be necessary. If the retailer who sells your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

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

Thank you for using a Husqvarna product.

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

WHAT IS WHAT?



What is what on the brush cutter?

- | | |
|---------------------------------|--------------------------------------|
| 1 Blade (Not all markets) | 19 Support flange |
| 2 Grease filler cap, bevel gear | 20 Support cup |
| 3 Bevel gear | 21 Drive disc |
| 4 Cutting attachment guard | 22 Handlebar clamp (RS) |
| 5 Shaft | 23 Operator's manual |
| 6 Start throttle button | 24 Transport guard (Not all markets) |
| 7 Stop switch | 25 Socket spanner |
| 8 Throttle trigger | 26 Spanner |
| 9 Throttle trigger lockout | 27 Locking pin |
| 10 Suspension ring | 28 Harness |
| 11 Cylinder cover | 29 Air purge |
| 12 Starter handle | 30 Protective sleeve |
| 13 Fuel tank | 31 Trimmer head (Not all markets) |
| 14 Choke control | 32 Allen key |
| 15 Air filter cover | 33 2-teeth blade (Not all markets) |
| 16 Handlebar (RS) | 34 Handlebar bracket (RST) |
| 17 Clutch cover | 35 Bracket (RST) |
| 18 Locking nut | 36 Handlebar (RST) |

GENERAL SAFETY PRECAUTIONS

Important

IMPORTANT!

The clearing saw or grass trimmer is only designed for trimming grass, grass clearing and/or forestry clearing.

National or local regulations may regulate the use. Comply to given regulations.

The only accessories you can operate with this engine unit are the cutting attachments we recommend in the chapter on Technical data.

Never use the machine if you are tired, if you are ill, if you have consumed alcohol, or if you are taking other drugs or medication that can affect your vision, judgement or co-ordination.

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

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

Never use a machine that is faulty. Carry out the safety checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the Maintenance heading.

All covers, guards and handles must be fitted before starting. Ensure that the spark plug cap and ignition lead are undamaged to avoid the risk of electric shock.

The machine operator must ensure that no people or animals come closer than 15 meters while working. When several operators are working in the same area the safety distance should be at least twice the tree height and no less than 15 meters.

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



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



WARNING! Running an engine in a confined or badly ventilated area can result in death due to asphyxiation or carbon monoxide poisoning.

Personal protective equipment

IMPORTANT!

A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this operator's manual.

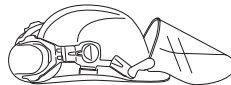
You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.



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

HELMET

A helmet should be worn if the trees being cleared are taller than 2 m.



HEARING PROTECTION

Wear hearing protection that provides adequate noise reduction.



EYE PROTECTION

Always wear approved eye protection. If you use a visor then you must also wear approved protective goggles. Approved protective goggles must comply with the ANSI Z87.1 standard in the USA or EN 166 in EU countries.



GLOVES

Gloves should be worn when necessary, e.g. when fitting cutting attachments.



GENERAL SAFETY PRECAUTIONS

BOOTS

Wear boots with steel toe-caps and non-slip sole.



CLOTHING

Wear clothes made of a strong fabric and avoid loose clothing that can catch on twigs and branches. Always wear heavy, long pants. Do not wear jewellery, shorts sandals or go barefoot. Secure hair so it is above shoulder level.

FIRST AID KIT

Always have a first aid kit nearby.



Machine's safety equipment

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

The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest service workshop.

IMPORTANT! All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent.

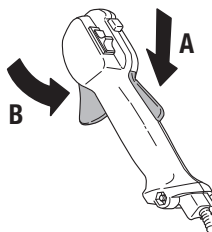


WARNING! Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired.

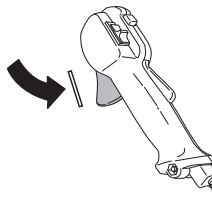
Throttle trigger lockout

The throttle lockout is designed to prevent accidental operation of the throttle control. When you press the lock (A) (i.e. when you grasp the handle) it releases the throttle control (B). When you release the handle the throttle

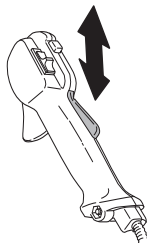
control and the throttle lockout both move back to their original positions. This movement is controlled by two independent return springs. This arrangement means that the throttle control is automatically locked at the idle setting.



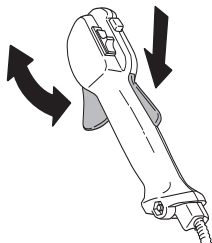
Make sure that the throttle trigger is locked at idle setting when the throttle trigger lockout is released.



Press the throttle lockout and make sure it returns to its original position when you release it.



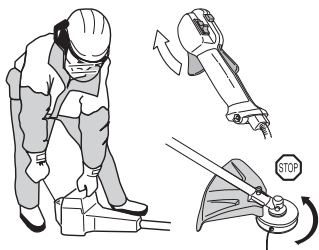
Check that the throttle trigger and throttle lockout move freely and that the return springs work properly.



See instructions under the heading Start. Start the machine and apply full throttle. Release the throttle and check that the cutting attachment stops and remains at a standstill. If the cutting attachment rotates with the throttle in the idle position then the carburettor idle setting must

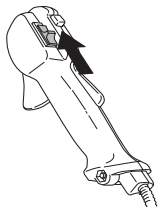
GENERAL SAFETY PRECAUTIONS

be checked. See instructions under the heading Maintenance.



Stop switch

Use the stop switch to switch off the engine.

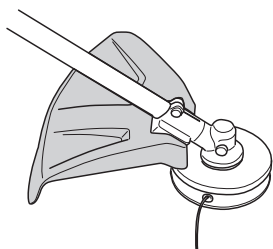


Start the engine and make sure the engine stops when you move the stop switch to the stop setting.

Cutting attachment guard



This guard is intended to prevent loose objects from being thrown towards the operator. The guard also protects the operator from accidental contact with the cutting attachment.



Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.

Always use the recommended guard for the cutting attachment you are using. See chapter on Technical data.

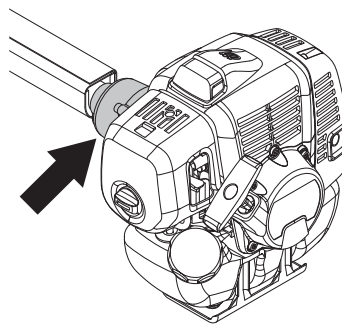


WARNING! Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury.

Vibration damping system



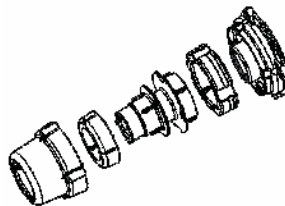
Your machine is equipped with a vibration damping system that is designed to minimize vibration and make operation easier.



Using incorrectly wound cord or a blunt or incorrect cutting attachment (wrong type or incorrectly filed, see instructions under the heading Filing the blade) increases the level of vibration.

The machine's vibration damping system reduces the transfer of vibration between the engine unit/cutting equipment and the machine's handle unit.

Regularly check the vibration damping units for cracks or deformation.



GENERAL SAFETY PRECAUTIONS

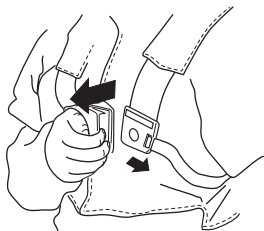
Check that the vibration damping element is undamaged and securely attached.



WARNING! Overexposure to vibration can lead to circulatory damage or nerve damage in people who have impaired circulation. Contact your doctor if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. The risk increases at low temperatures.

Quick release

There is an easily accessible, quick release fitted at the front as a safety precaution in case the engine catches fire, or in any other situation that requires you to free yourself from the machine and harness. See instructions under the heading Adjusting the harness and brush cutter.

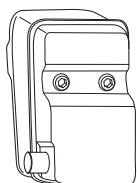


Check that the harness straps are correctly positioned. Once the harness and machine have been adjusted, check that the harness quick release works correctly.

Muffler



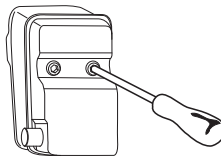
The muffler is designed to keep noise levels to a minimum and to direct exhaust fumes away from the user.



Never use a machine that has a faulty muffler.



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



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

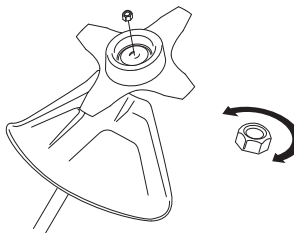


WARNING! Bear in mind that: The exhaust fumes from the engine are hot and may contain sparks which can start a fire. Never start the machine indoors or near combustible material!

Locking nut



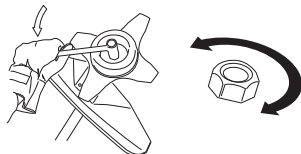
A locking nut is used to secure some types of cutting attachment.



When fitting, tighten the nut in the opposite direction to the direction of rotation of the cutting attachment. To remove it, undo the nut in the same direction as the cutting

GENERAL SAFETY PRECAUTIONS

attachment rotates. (CAUTION! The nut has a left-hand thread.) Tighten the nut using the socket spanner.



The nylon lining inside the locking nut must not be so worn that you can turn it by hand. The lining should offer a resistance of at least 1.5 Nm. The nut should be replaced after it has been put on approx. 10 times.

Cutting equipment

This section describes how to choose and maintain your cutting equipment in order to:

- Reduce the risk of blade thrust.
- Obtain maximum cutting performance.
- Extend the life of cutting equipment.

IMPORTANT!

Only use cutting attachments with the guards we recommend! See the chapter on Technical data.

Refer to the instructions for the cutting attachment to check the correct way to load the cord and the correct cord diameter.

Keep the teeth of the blade correctly sharpened! Follow our recommendations. Also refer to the instructions on the blade packaging.

Maintain the correct blade setting! Follow our instructions and use the recommended file gauge.



WARNING! Always stop the engine before doing any work on the cutting attachment. This continues to rotate even after the throttle has been released. Ensure that the cutting attachment has stopped completely and disconnect the spark plug cap before you start to work on it.



WARNING! Using an incorrect cutting attachment or an incorrectly sharpened blade increases the risk of blade thrust.

Cutting equipment

Grass blades and grass knives are intended for cutting coarse grass.



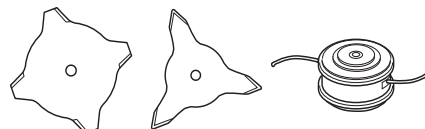
A trimmer head is intended for trimming grass.



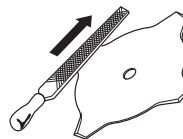
General rules



Only use cutting attachments with the guards we recommend! See the chapter on Technical data.



Keep the teeth of the blade correctly sharpened! Follow our instructions and use the recommended file gauge. An incorrectly sharpened or damaged blade increases the risk of accidents.



Check the cutting attachment for damage or cracks. A damaged cutting attachment should always be replaced.

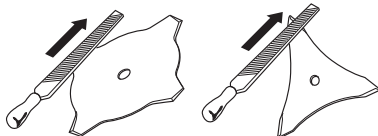


GENERAL SAFETY PRECAUTIONS

Sharpening grass knives and grass blades



- See the cutting attachment packaging for correct sharpening instructions. Sharpen blades and knives using a single-cut flat file.
- Sharpen all edges equally to maintain the balance of the blade.



WARNING! Always discard a blade that is bent, twisted, cracked, broken or damaged in any other way. Never attempt to straighten a twisted blade so that it can be reused. Only use original blades of the specified type.

Trimmer head

IMPORTANT!

Always ensure the trimmer cord is wound tightly and evenly around the drum, otherwise the machine will generate harmful vibration.

- Only use the recommended trimmer heads and trimmer cords. These have been tested by the manufacturer to suit a particular engine size. This is especially important when a fully automatic trimmer head is used. Only use the recommended cutting attachment. See the chapter on Technical data.



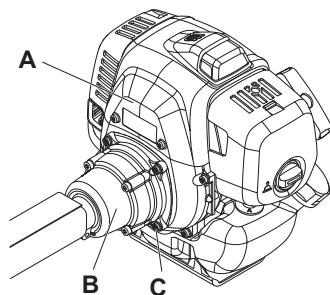
- Smaller machines generally require small trimmer heads and vice versa. This is because when clearing using a cord the engine must throw out the cord radially from the trimmer head and overcome the resistance of the grass being cleared.
- The length of the cord is also important. A longer cord requires greater engine power than a shorter cord of the same diameter.
- Make sure that the cutter on the trimmer guard is intact. This is used to cut the cord to the correct length.
- To increase the life of the cord it can be soaked in water for a couple of days before use. This will make the cord tougher so that it lasts longer.

ASSEMBLY

Fitting the main body



Connect the engine (A) to the tube (B) with four screws (C).

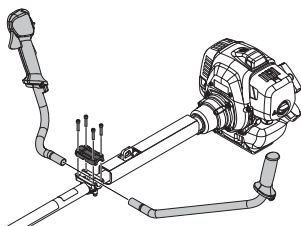


Assembling the handlebar and throttle

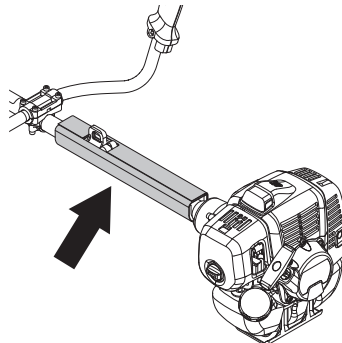


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- Fit the handlebar in the handlebar clamp on the shaft using four screws.

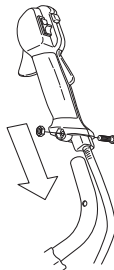


- Fit the protective sleeve as shown in the diagram.

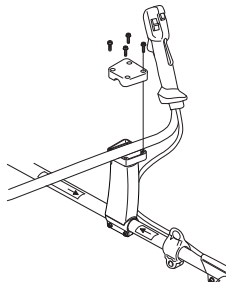


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- Remove the screw at the rear of the throttle handle.
- Slide the throttle handle onto the right side of the handlebar, (see diagram).



- Align the screw hole in the throttle handle with the hole in the handlebar.
- Refit the screw in the hole in the rear of the throttle handle.
- Screw the screw through the handle and handlebar. Tighten it.



- Fit the mounting components as shown.
- Loosely tighten the four screws.

ASSEMBLY

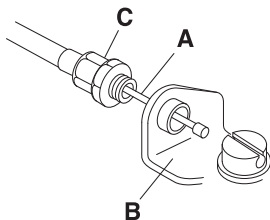
- Put on the harness and hang the machine from the support hook. Now make a final adjustment so that the machine is in a comfortable working position when it hangs from the harness.
- Tighten the screws.



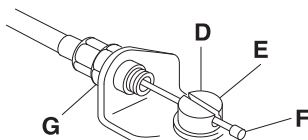
Connecting throttle cable and stop switch wires



- Remove the air filter cover.
- Insert the throttle cable (A) through the carburettor bracket (B), then screw the cable adjuster sleeve (C) into the carburettor bracket fully.

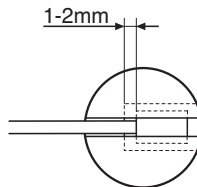


- Position the slotted fitting (D) on the carburettor so the recessed hole (E) for the cable lug (F) is away from the cable adjuster sleeve.

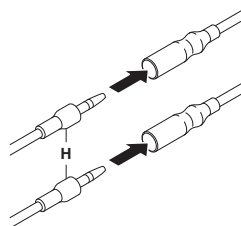


- Rotate the carburettor throttle cam and slip the throttle cable through the slot in the slotted fitting, making sure the cable lug drops into the recessed hole.
- Operate the throttle trigger a few times to make sure that it works correctly.
- Adjust the cable adjuster sleeve so the stop on the carburettor throttle cam just contacts the throttle stop

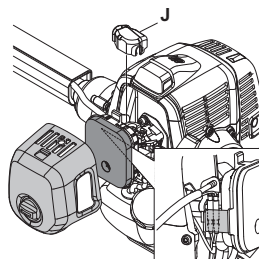
and the cable position keep 1-2 mm play between the cable lug and the slotted fitting when the throttle trigger is fully depressed.



- When the throttle cable is adjusted correctly, tighten the locking nut (G).
- Plug the stop switch wires (H) into the matching connectors from the engine. Note that wire polarity is not important.



- Insert the short circuit cable into the groove on the filter holder.
- Fit the dust cover (J).



- Refit the air filter cover.

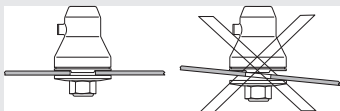
ASSEMBLY

Fitting blades and trimmer heads



WARNING!

When fitting the cutting attachment it is extremely important that the raised section on the drive disc/support flange engages correctly in the centre hole of the cutting attachment. If the cutting attachment is fitted incorrectly it can result in serious and/or fatal personal injury.



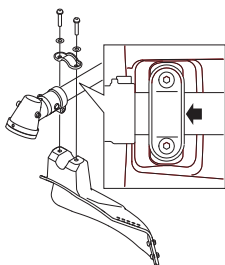
WARNING! Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury.

IMPORTANT! If a saw blade or grass blade are to be used the machine must be equipped with the correct handlebar, blade guard and harness.

Fitting the trimmer guard and trimmer head

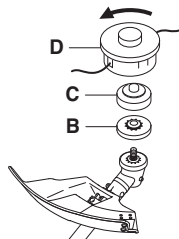


- Fit the correct trimmer guard (A) for use with the trimmer head.
- Fit the guard as shown in the diagram. Tighten securely.



- Position the trimmer guard beside the arrow mark.
- Fit the drive disc (B) and support flange (C) on the output shaft.

- Turn the output shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- Insert the locking pin into the hole to lock the shaft.
- Turn the trimmer head counterclockwise when installing.

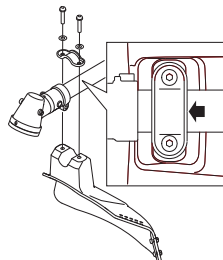


- To dismantle, follow the instructions in the reverse order.

Fitting a blade guard, grass blade and grass cutter



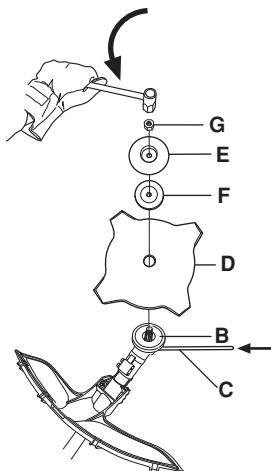
- Fit the guard as shown in the diagram. Tighten securely.



- Position the trimmer guard beside the arrow mark.
- Fit the drive disc (B) on the output shaft.
- Turn the output shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- Insert the locking pin (C) in the hole to lock the shaft.
- Place the blade (D), support cup (E) and support flange (F) on the output shaft.
- Fit the nut (G). The nut must be tightened to a torque of 35-50 Nm. Use the spanner in the tool kit. Hold the shaft of the spanner as close to the blade guard as possible. To tighten the nut, turn the spanner in the

ASSEMBLY

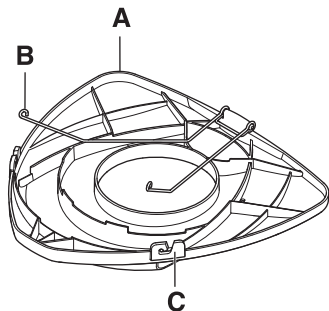
opposite direction to the direction of rotation (Caution! left-hand thread).



Fitting the transport guard

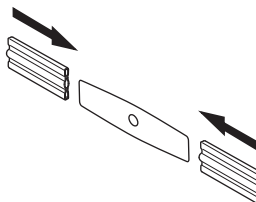


- Insert the blade in the transport guard (A).
- Snap the two fasteners (B) into the slots (C) to secure the transport guard.



2-teeth blade

- Insert the blade in the transport guard.



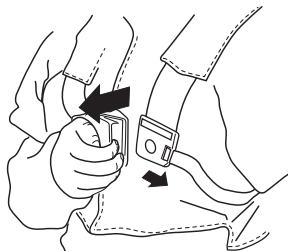
Adjusting the harness and brush cutter



WARNING! When using a brush cutter it must always be hooked securely to the harness. Otherwise you will be unable to control the brush cutter safely and this can result in injury to yourself or others. Never use a harness with a defective quick release.

Quick release

At the front is an easily accessible, quick release. Use this if the engine catches fire or in any other emergency situation that requires you to free yourself from the machine and harness.



ASSEMBLY

Spreading the load on your shoulders

A well-adjusted harness and machine makes work much easier. Adjust the harness for the best working position. Tension the side straps so that the weight is evenly distributed across both shoulders.



Correct height

Adjust the shoulder strap so that the cutting attachment is parallel to the ground.



Correct balance

Let the cutting attachment rest lightly on the ground. Adjust the position of the suspension ring to balance the brush cutter correctly.



FUEL HANDLING

Fuel safety

Never start the machine:

- 1 If you have spilled fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.
- 2 If you have spilled fuel on yourself or your clothes, change your clothes. Wash any part of your body that has come in contact with fuel. Use soap and water.
- 3 If the machine is leaking fuel. Check regularly for leaks from the fuel cap and fuel lines.

Transport and storage

- Store and transport the machine and fuel so that there is no risk of any leakage or fumes coming into contact with sparks or open flames, for example, from electrical machinery, electric motors, electrical relays/ switches or boilers.
- When storing and transporting fuel always use approved containers intended for this purpose.
- When storing the machine for long periods the fuel tank must be emptied. Contact your local petrol station to find out where to dispose of excess fuel.
- Ensure the machine is cleaned and that a complete service is carried out before long-term storage.
- The transport guard must always be fitted to the cutting attachment when the machine is being transported or in storage.
- Secure the machine during transport.
- In order to prevent unintentional starting of the engine, the spark plug cap must always be removed during long-term storage, if the machine is not under close supervision and when performing all service measures.



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

Fuel

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



WARNING! Fuel and fuel fumes are highly flammable and can cause serious injury when inhaled or allowed to come in contact with the skin. For this reason observe caution when handling fuel and make sure there is adequate ventilation.

Petrol



CAUTION! Always use a quality petrol/oil mixture at least 90 octane (RON). If your machine is equipped with a catalytic converter (see chapter on Technical data) always use a good quality unleaded petrol/oil mixture. Leaded petrol will destroy the catalytic converter.

Use low-emission petrol, also known as alkylate petrol, if it is available.



- The lowest octane recommended is 90 (RON). If you run the engine on a lower octane grade than 90 so-called knocking can occur. This gives rise to a high engine temperature, which can result in serious engine damage.
- When working at continuous high revs a higher octane rating is recommended.

Two-stroke oil

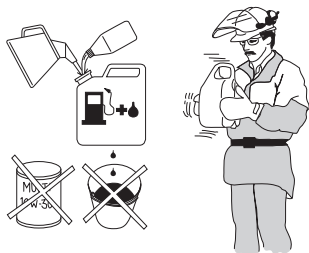
- For best results and performance use HUSQVARNA two-stroke oil, which is specially formulated for our two-stroke engines. Mixture 1:50 (2%).
- If HUSQVARNA two-stroke oil is not available, you may use another two-stroke oil of good quality that is intended for air cooled engines. Contact your dealer when selecting an oil.
- Never use two-stroke oil intended for water-cooled outboard engines, sometimes referred to as outboard oil.
- Never use oil intended for four-stroke engines.
- A poor oil quality and/or too high oil/fuel ratio may jeopardise function and decrease the life time of catalytic converters.

Petrol, litre	Two-stroke oil, litre
	2% (1:50)
5	0,10
10	0,20
15	0,30
20	0,40

FUEL HANDLING

Mixing

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



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

Fueling



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

Do not smoke or place hot objects near fuel.

Always shut off the engine before refuelling.

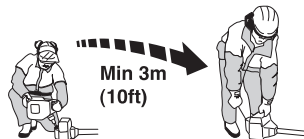
Always stop the engine and let it cool for a few minutes before refuelling.

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

Tighten the fuel cap carefully after refuelling.

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

- Always use a fuel container with an anti-spill valve.
- Clean the area around the fuel cap. Contamination in the tank can cause operating problems.
- Ensure that the fuel is well mixed by shaking the container before filling the tank.

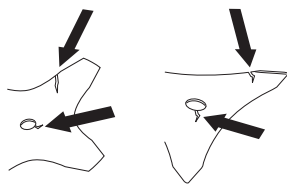


STARTING AND STOPPING

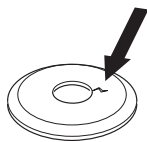
Check before starting



- Never use the machine without a guard nor with a defective guard.
- All covers must be correctly fitted and undamaged before you start the machine.
- Check the blade to ensure that no cracks have formed at the bottom of the teeth or by the centre hole. The most common reason why cracks are formed is that sharp corners have been formed at the bottom of the teeth while sharpening or that the blade has been used with dull teeth. Discard a blade if cracks are found.



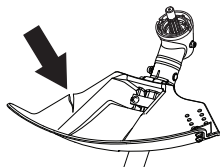
- Check that the support flange is not cracked due to fatigue or due to being tightened too much. Discard the support flange if it is cracked.



- Ensure the locking nut has not lost its captive force. The nut lock should have a locking force of at least 1.5 Nm. The tightening torque of the locking nut should be 35-50 Nm.

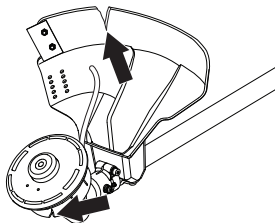


- Check that the blade guard is not damaged or cracked. Replace the blade guard if it is exposed to impact or is cracked.



- Check that the trimmer head and trimmer guard are not damaged or cracked. Replace the trimmer head or

trimmer guard if they have been exposed to impact or are cracked.



Starting and stopping



WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.

Always move the machine away from the refuelling area and source before starting. Place the machine on a flat surface. Ensure the cutting attachment cannot come into contact with any object.

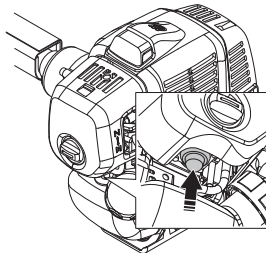
Make sure no unauthorised persons are in the working area. Otherwise there is a risk of serious personal injury. The safety distance is 15 meters.

Starting



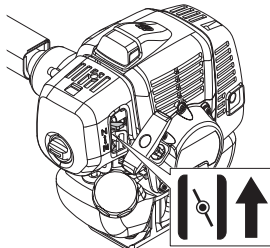
Ignition: Set the stop switch to the start position.

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



STARTING AND STOPPING

Choke: Set the choke control in the choke position.



WARNING! When the engine is started with the choke in either the choke or start throttle positions the cutting attachment will start to rotate immediately.

Hold the body of the machine on the ground using your left hand (CAUTION! Not with your foot!). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord. **Never twist the starter cord around your hand.**

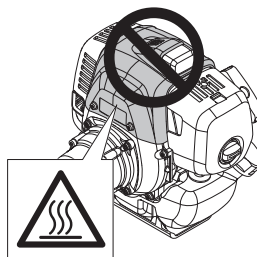
Repeat pulling the start handle until the engine starts. When the engine starts, return choke control to run position and apply full throttle; the throttle will automatically disengage from the start setting.

CAUTION! Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine.



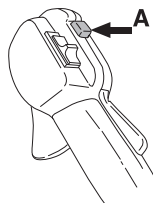
CAUTION! Do not put any part of your body in marked area. Contact can result in burns to the skin, or electrical shock if the spark plug cap has been damaged. Always

use gloves. Do not use a machine with damaged spark plug cap.



For throttle handles with a start throttle lock:

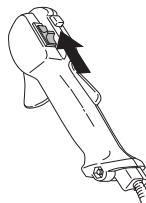
Set the throttle to the start position by first pressing the throttle lockout and the throttle trigger, then pressing the start throttle button (A). Then release the throttle lockout and the throttle trigger, followed by the start throttle button. The throttle function is now activated. To return the engine to idle, press the throttle lockout and throttle trigger again.



Stopping



Stop the engine by switching off the ignition.



WORKING TECHNIQUES

General working instructions

IMPORTANT!

This section describes the basic safety precautions for working with brush cutters and trimmers.

If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop.

Avoid all usage which you consider to be beyond your capability.

You must understand the difference between forestry clearing, grass clearing and grass trimming before use.

Basic safety rules



- 1 Look around you:
 - To ensure that people, animals or other things cannot affect your control of the machine.
 - To ensure that people, animals, etc., do not come into contact with the cutting attachment or loose objects that are thrown out by the cutting attachment.
 - CAUTION! Do not use the machine unless you are able to call for help in the event of an accident.
- 2 Inspect the working area. Remove all loose objects, such as stones, broken glass, nails, steel wire, string, etc. that could be thrown out or become wrapped around the cutting attachment.
- 3 Do not use the machine in bad weather, such as dense fog, heavy rain, strong wind, intense cold, etc. Working in bad weather is tiring and often brings added risks, such as icy ground, unpredictable felling direction, etc.
- 4 Make sure you can move and stand safely. Check the area around you for possible obstacles (roots, rocks, branches, ditches, etc.) in case you have to move suddenly. Take great care when working on sloping ground.



- 5 Keep a good balance and a firm foothold. Do not overreach. Keep proper footing and balance at all times.

- 6 Always hold the machine with both hands. Hold the machine on the right side of your body. Keep all parts of your body away from the hot surfaces. Keep all parts of your body away from the rotating cutting attachment.



- 7 When using a brush cutter it must always be hooked securely to the harness. Otherwise you will be unable to control the brush cutter safely and this can result in injury to yourself or others. Never use a harness with a defective quick release.
- 8 Keep the cutting attachment below waist level.
- 9 Switch off the engine before moving to another area. Fit the transport guard before carrying or transporting the equipment any distance.
- 10 Never put the machine down with the engine running unless you have it in clear sight.



WARNING! Neither the operator of the machine nor anyone else may attempt to remove the cut material while the engine is running or the cutting equipment is rotating, as this can result in serious injury.

Stop the engine and cutting equipment before you remove material that has wound around the blade shaft as otherwise there is a risk of injury. The bevel gear can get hot during use and may remain so for a while afterwards. You could get burnt if you touch it.

WORKING TECHNIQUES



WARNING! Watch out for thrown objects. Always wear approved eye protection. Never lean over the cutting attachment guard. Stones, rubbish, etc. can be thrown up into the eyes causing blindness or serious injury.

Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 metres. Stop the machine immediately if anyone approaches. Never swing the machine around without first checking behind you to make sure no-one is within the safety zone.

Basic working techniques

Always slow the engine to idle speed after each working operation. Long periods at full throttle without any load on the engine can lead to serious engine damage.



WARNING! Sometimes branches or grass get caught between the guard and cutting attachment. Always stop the engine before cleaning.

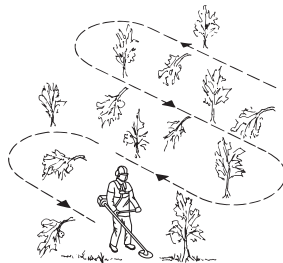


WARNING! Machines fitted with saw blades or grass blades can be thrown violently to the side when the blade comes into contact with a fixed object. This is called blade thrust. A blade thrust can be violent enough to cause the machine and/or operator to be propelled in any direction, and possibly lose control of the machine. Blade thrust can occur without warning if the machine snags, stalls or binds. Blade thrust is more likely to occur in areas where it is difficult to see the material being cut.

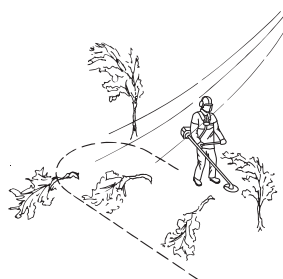
Avoid cutting with the area of the blade between the 12 o'clock and 3 o'clock positions. Because of the speed of rotation of the blade, blade thrust can occur if you attempt to cut thick stems with this area of the blade.

- Before you start clearing, check the clearing area, the type of terrain, the slope of the ground, whether there are stones, hollows etc.
- Start at whichever end of the area is easiest, and clear an open space from which to work.
- Work systematically to and fro across the area, clearing a width of around 4-5 m on each pass. This exploits the full reach of the machine in both directions

and gives the operator a convenient and varied working area to work in.



- Clear a strip around 75 m long. Move your fuel can as work progresses.
- On sloping ground you should work along the slope. It is much easier to work along a slope than it is to work up and down it.
- You should plan the strip so that you avoid going over ditches or other obstacles on the ground. You should also orient the strip to take advantage of wind conditions, so that cleared stems fall in the cleared area of the stand.



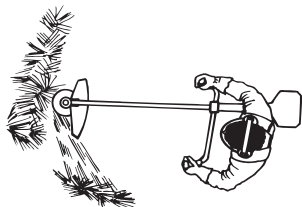
Grass clearing using a grass blade



- Grass blades and grass knives must not be used on woody stems.
- A grass blade is used for all types of tall or coarse grass.
- The grass is cut down with a sideways, swinging movement, where the movement from right-to-left is the clearing stroke and the movement from left-to-

WORKING TECHNIQUES

right is the return stroke. Let the left-hand side of the blade (between 8 and 12 o'clock) do the cutting.



- If the blade is angled to the left when clearing grass, the grass will collect in a line, which makes it easier to collect, e.g. by raking.
- Try to work rhythmically. Stand firmly with your feet apart. Move forward after the return stroke and stand firmly again.
- Let the support cup rest lightly against the ground. It is used to protect the blade from hitting the ground.
- Reduce the risk of material wrapping around the blade by following these instructions:
 - 1 Always work at full throttle.
 - 2 Avoid the previously cut material during the return stroke.
- Stop the engine, unclip the harness and place the machine on the ground before you start to collect the cut material.

Grass trimming with a trimmer head



Trimming

- Hold the trimmer head just above the ground at an angle. It is the end of the cord that does the work. Let the cord work at its own pace. Never press the cord into the area to be cut.



- The cord can easily remove grass and weeds up against walls, fences, trees and borders. However it can also damage sensitive bark on trees and bushes, and damage fence posts.
- Reduce the risk of damaging plants by shortening the cord to 10-12 cm and reducing the engine speed.

Clearing

- The clearing technique removes all unwanted vegetation. Keep the trimmer head just above the ground and tilt it. Let the end of the cord strike the ground around trees, posts, statues and the like.

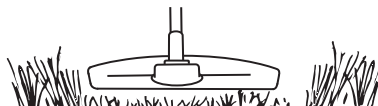
CAUTION! This technique increases the wear on the cord.



- The cord wears quicker and must be fed forward more often when working against stones, brick, concrete, metal fences, etc., than when coming into contact with trees and wooden fences.
- When trimming and clearing, you should use less than full throttle (80%) so that the cord lasts longer and to reduce the wear on the trimmer head.

Cutting

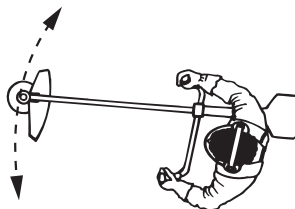
- The trimmer is ideal for cutting grass that is difficult to reach using a normal lawn mower. Keep the cord parallel to the ground when cutting. Avoid pressing the trimmer head against the ground as this can ruin the lawn and damage the tool.



- Do not allow the trimmer head to constantly come into contact with the ground during normal cutting. Constant contact of this type can cause damage and wear to the trimmer head.

Sweeping

- The fan effect of the rotating cord can be used for quick and easy clearing up. Hold the cord parallel to and above the area to be swept and move the tool side to side.



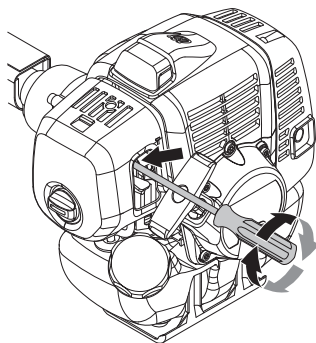
- When cutting and sweeping you should use full throttle to obtain the best results.

MAINTENANCE

Carburettor

Adjusting the idle speed (T)

Check that the air filter is clean. When the idle speed is correct, the cutting attachment should not rotate. If adjustment is required, close (turn clockwise) the idle adjustment screw T, with the engine running, until the cutting attachment starts to rotate. Open (turn anticlockwise) the screw until the cutting attachment stops. The idle speed is correctly set when the engine runs smoothly in all positions, and there is a clear margin to the speed at which the cutting attachment starts to rotate.

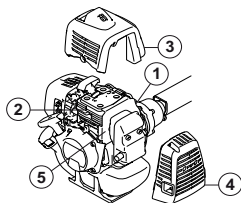


WARNING! If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired.

Cooling system



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



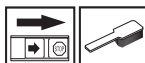
The cooling system consists of:

- 1 Fins on the flywheel.
- 2 Cooling fins on the cylinder.
- 3 Cylinder cover (directs cold air over the cylinder).

- 4 Muffler cover.
- 5 Muffler plate.

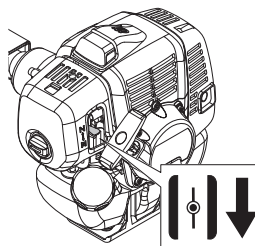
Clean the cooling system with a brush once a week, more often in demanding conditions. A dirty or blocked cooling system results in the machine overheating which causes damage to the piston and cylinder.

Air filter



Clean the filter every 25 hours, or more regularly if conditions are exceptionally dusty.

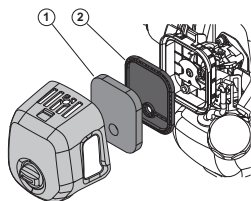
Set the choke control in the choke position.



Cleaning the air filter

Remove the air filter cover. Remove the dust around the filters.

Take out the filters.



Clean the foam plastic filter. (1)

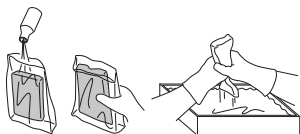
Wash the filter in clean, warm soapy water.

Make sure that the filter is dry before oiling it. Moisten the foam plastic filter with Husqvarna two-stroke engine oil.

Put the filter in a plastic bag and pour the filter oil over it. Knead the plastic bag to distribute the oil. Squeeze the

MAINTENANCE

excess oil out of the filter inside the plastic bag and pour off the excess before fitting the filter to the machine.



Note:

Never use oil intended for four-stroke engines. This may damage the foam plastic filter.

Do not use mixture gasoline! This type of gasoline does not contain enough oil, so the filter will become dry after a few hours.

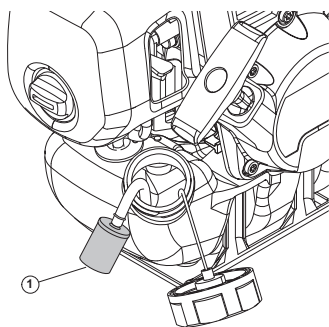
Felt filter (2)

Clean the filter by knocking the filter carefully against the hand palm or blow the air from inside to outward.

Do not wash the felt filter, since kneading will make the filter shrink and scrubbing will remove fibre of filter!

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

Fuel filter



1 Fuel filter

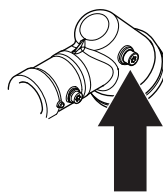
When the engine runs short of fuel supply, check the fuel cap and the fuel filter for blockage.

Bevel gear



The bevel gear is filled with the right quantity of grease at the factory. However, before using the machine you should check that the bevel gear is filled three-quarters full with grease. Use HUSQVARNA special grease.

The grease in the bevel gear does not normally need to be changed except if repairs are carried out.



Spark plug



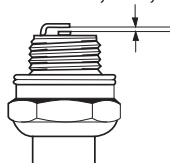
The spark plug condition is influenced by:

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

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

If the machine is low on power, difficult to start or runs poorly at idle speed: always check the spark plug first before taking any further action. If the spark plug is dirty, clean it and check that the electrode gap is 0,6-0,7 mm. The spark plug should be replaced after about a month in operation or earlier if necessary.

0,6 - 0,7 mm



CAUTION! Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/cylinder. Check that the spark plug is fitted with a suppressor.

MAINTENANCE

Trouble shooting

Starting failure		
Check	Possible Cause	Action
Stop button	Stop position	Set the stop switch to the start position.
Starter pawls	Binding pawls	Adjust or replace the pawls.
		Clean around the pawls.
		Contact a servicing dealer.
Fuel tank	Incorrect fuel type	Drain it and use correct fuel.
Carburettor	Adjustment of the idle speed	Adjust the idling speed with the T-screw.
Sparkling (no spark)	Spark plug contaminated or wet	Make sure that the spark plug is dry and clean.
	Spark plug gap incorrect.	Clean the spark plug. Check that the electrode gap is correct. Make sure that the spark plug is fitted with a suppressor. Refer to technical data for correct electrode gap.
Spark plug	Spark plug loose.	Retighten the spark plug
Fuel filter	Clogged fuel filter	Replace the fuel filter.

Engine starts but does not stay running.		
Check	Possible Cause	Possible action
Fuel tank	Incorrect fuel type	Drain it and use correct fuel.
Carburettor	Engine will not idle properly.	Contact your servicing dealer.
Air filter	Clogged air filter	Clean the air filter.
Fuel filter	Clogged fuel filter	Replace the fuel filter.

MAINTENANCE

Maintenance schedule

The following is a list of the maintenance steps that must be performed on the machine. Most of the items are described in the Maintenance section. The user must only carry out the maintenance and service work described in this Operator's Manual. More extensive work must be carried out by an authorized service workshop.

Maintenance	Daily maintenance	Weekly maintenance	Monthly maintenance
Clean the outside of the machine.	X		
Check that the harness is not damaged.	X		
Make sure the throttle trigger lock and the throttle function correctly from a safety point of view.	X		
Check that the handle and handlebar are undamaged and secured correctly.	X		
Check that the stop switch works correctly.	X		
Check that the cutting attachment does not rotate at idle.	X		
Clean the air filter. Replace if necessary.	X		
Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.	X		
Check that the blade is correctly centred, is sharp, and is not cracked. An off-centre blade will cause vibration that could result in damage to the machine.	X		
Check that the trimmer head is undamaged and not cracked. Replace the trimmer head if necessary.	X		
Check that the locking nut of the cutting equipment is tightened correctly.	X		
Check that the transport guard for the blade is intact and that it can be secured correctly.	X		
Check that nuts and screws are tight.	X		
Check that there are no fuel leaks from the engine, tank or fuel lines.	X		
Check the starter and starter cord.		X	
Check that the vibration damping elements are not damaged.		X	
Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0,6-0,7 mm or replace the spark plug. Check that the spark plug is fitted with a suppressor.		X	
Clean the machine's cooling system.		X	
Clean the outside of the carburettor and the space around it.		X	
Check that the bevel gear is filled three-quarters full with lubricant. Fill if necessary using special grease.		X	
Clean the muffler.			X
Check the fuel filter for contamination and the fuel hose for cracks or other defects. Replace if necessary.			X
Check all cables and connections.			X
Check the clutch, clutch springs and the clutch drum for wear. Replace if necessary by an authorized service workshop.			X
Replace the spark plug. Check that the spark plug is fitted with a suppressor.			X

TECHNICAL DATA

Technical data

Technical data	531RS	541RS	541RST
Engine			
Cylinder displacement, cm ³	33,6	41,5	41,5
Cylinder bore, mm	36	40	40
Stroke, mm	33	33	33
Idle speed, rpm	2500	2500	2500
Recommended max. speed, rpm	12000	12000	12000
Speed of output shaft, rpm	8570	8570	8570
Max. engine output, acc. to ISO 8893, kW/ rpm	1,2/7000	1,6/7000	1,6/7000
Ignition system			
Spark plug	NGK BPMR 7A	NGK BPMR 7A	NGK BPMR 7A
Electrode gap, mm	0,6-0,7	0,6-0,7	0,6-0,7
Fuel and lubrication system			
Fuel tank capacity, litre	0,74	0,94	0,94
Weight			
Weight without fuel, cutting attachment and guard, kg	7,2	7,2	7,2
Noise emissions			
(see note 1)			
Sound power level, measured dB(A)	107	107	107
Sound power level, guaranteed L _{WA} dB(A)	108	109	109
Noise levels			
(see note 2)			
Equivalent sound pressure level at the operator's ear, measured according to EN ISO 11806 and ISO 22868, dB(A):			
Equipped with trimmer head (original)	90	94	94
Equipped with grass blade (original)	89	95	95
Equipped with saw blade (original)			
Vibration levels			
(see note 3)			
Equivalent vibration levels (a _{h_{v,eq}}) at handles, measured according to EN ISO 11806 and ISO 22867, m/s ²			
Equipped with trimmer head (original), left/right	2,8/3,0	3,1/2,8	5,6/5,1
Equipped with grass blade (original), left/right	4,2/4,0	4,5/5,0	7,1/6,3
Equipped with saw blade (original), left/right			

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

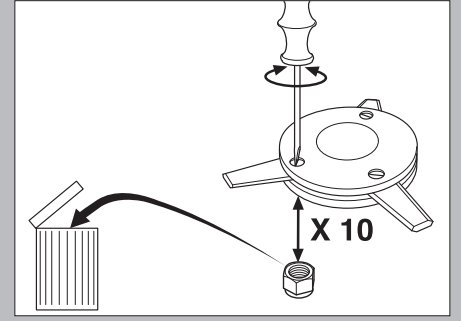
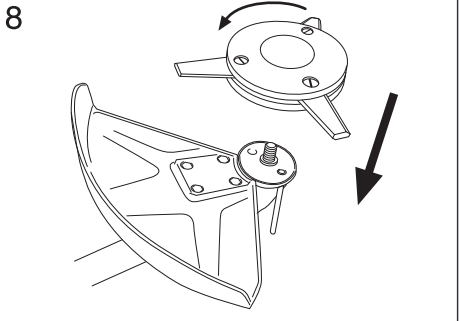
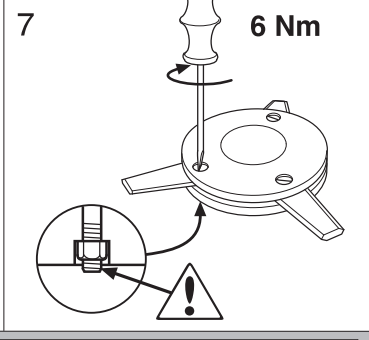
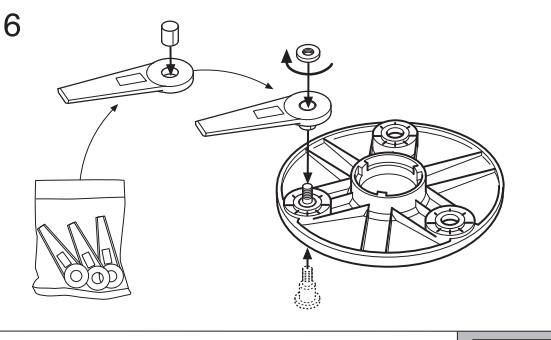
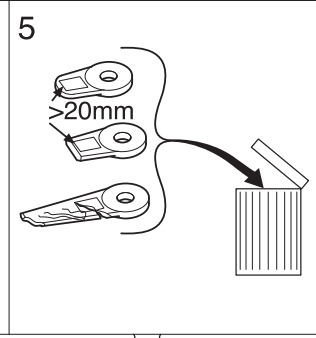
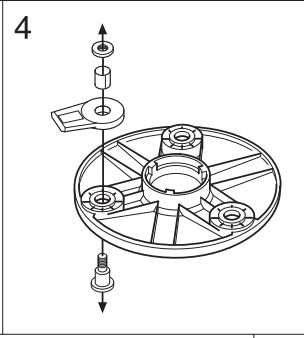
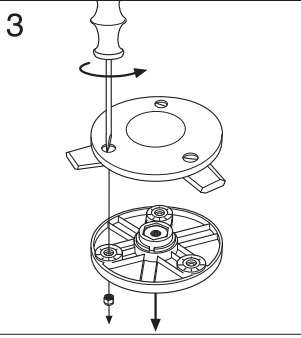
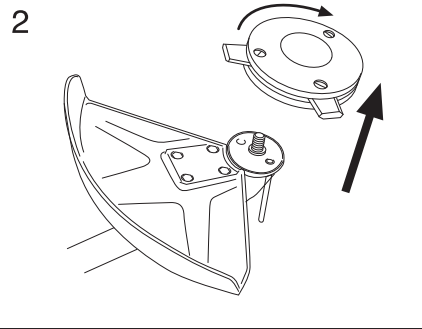
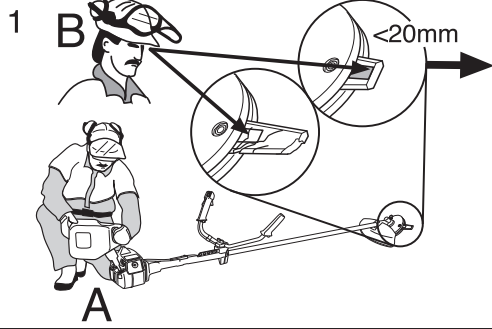
Note 2: Reported data for equivalent sound pressure level for the machine has a typical statistical dispersion (standard deviation) of 2.5 dB(A).

Note 3: Reported data for equivalent vibration level has a typical statistical dispersion (standard deviation) of 1.5 m/s².

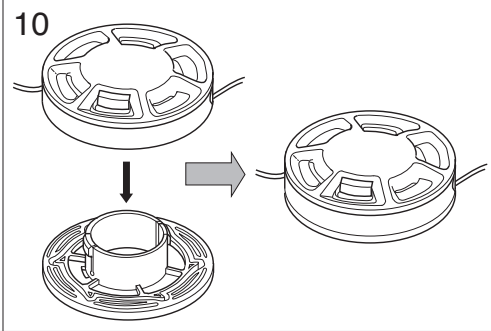
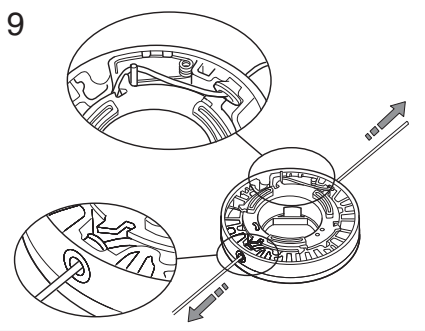
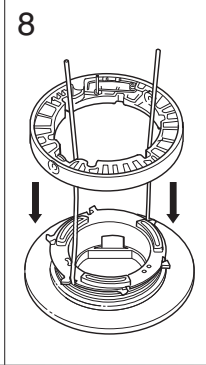
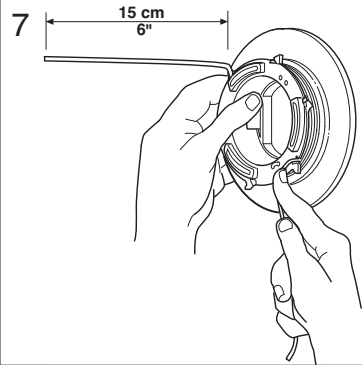
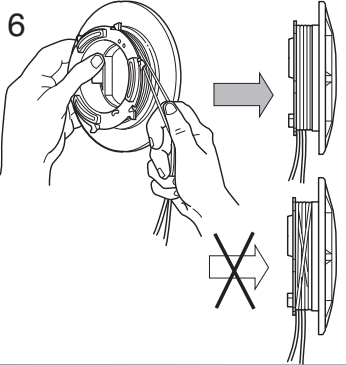
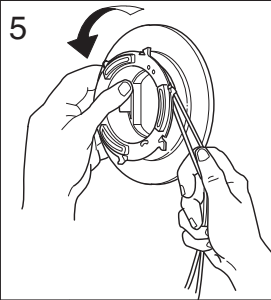
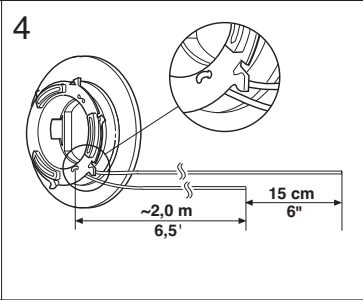
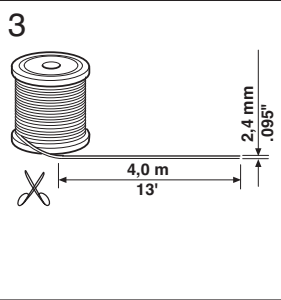
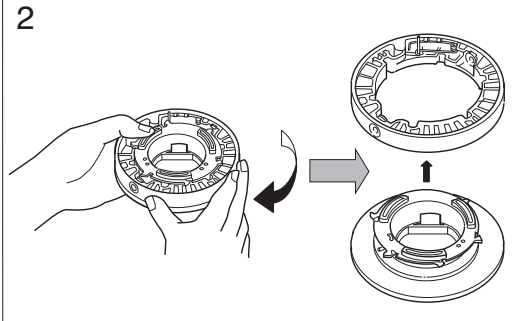
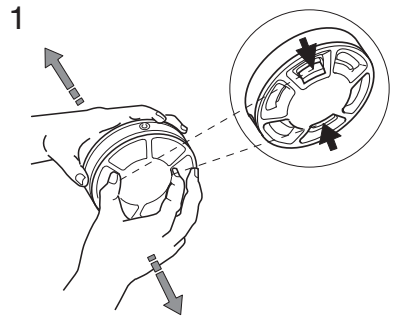
TECHNICAL DATA




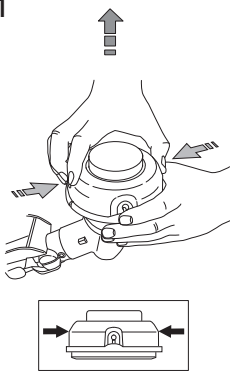
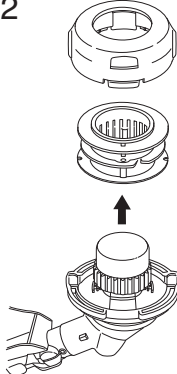
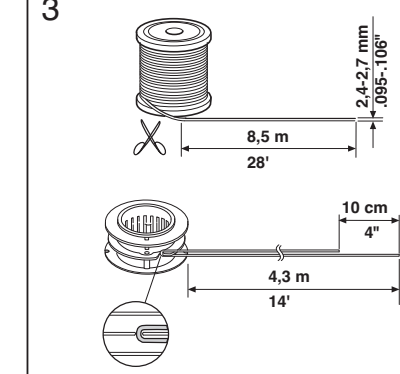
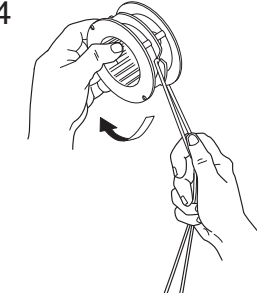
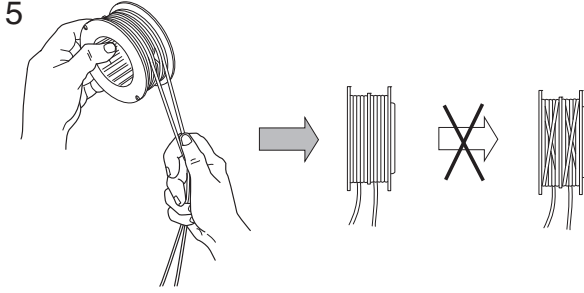
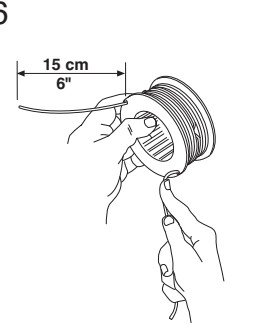
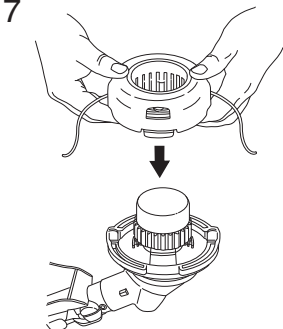
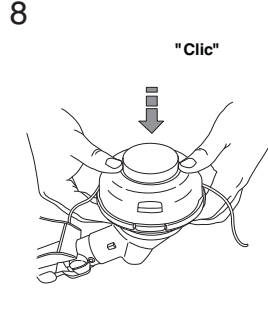
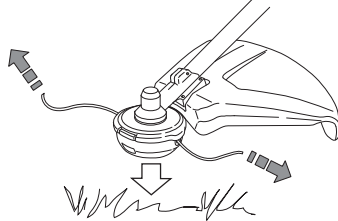
Approved accessories	Type	Cutting attachment guard, Art. no.
Grass blade/grass cutter	Multi 255-3 (Ø 255 3 teeth)	584 40 43-01
	Grass 275-4 (Ø 275 4 teeth)	584 40 43-01
	Grass 255-4 1" (Ø 255 4-teeth)	584 40 43-01
Plastic blades	Tricut Ø 300 mm (Separate blades have part number 531 01 77-15)	584 40 43-01
Trimmer head	T35, T35x (Ø 2.4 - 3.0 mm cord)	584 40 43-01
	T45x (Ø 2.7 - 3.3 mm cord)	584 40 43-01
	T55x (Ø 2.7 - 3.3 mm cord)	584 40 43-01
	S II	584 40 43-01
	PT104	584 40 43-01
Support cup	Fixed	-

Tri Cut






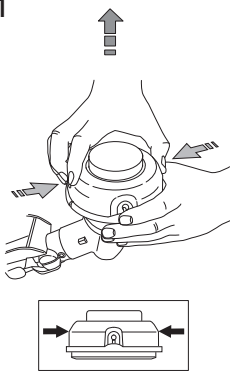
Super Auto II Super Auto II 1"

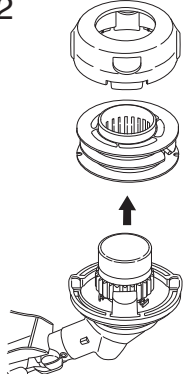


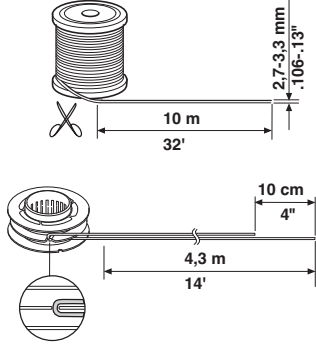
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1 	2 	3 
4 	5 	
6 	7 	8 
9 		

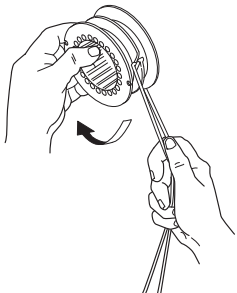
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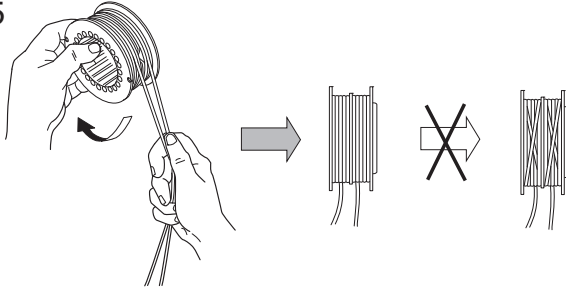
  

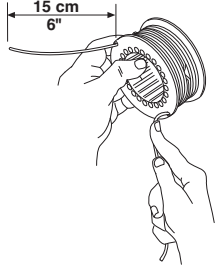
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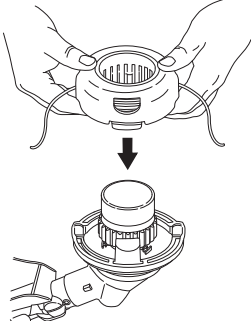
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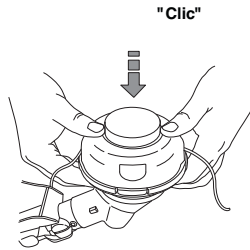
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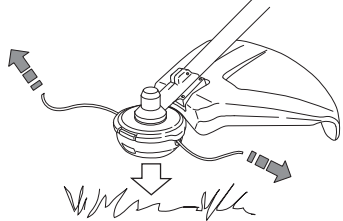
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5 

6 

7 

8 

9 

T55x

1

2

3

A	2,7 - 4,0 mm / .105 - .160"
B	8 m / 26'
C	15 cm / 5.9"

4

5

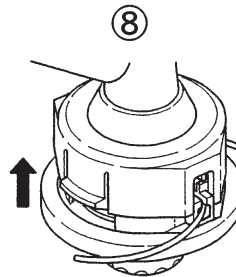
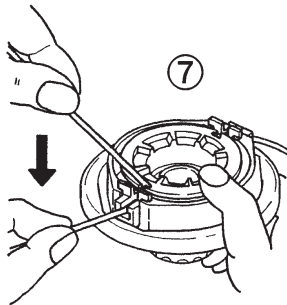
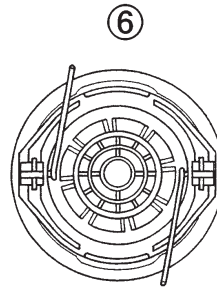
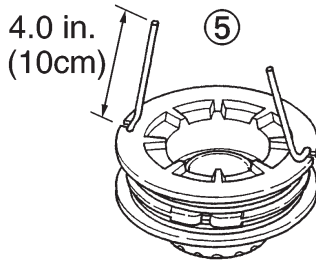
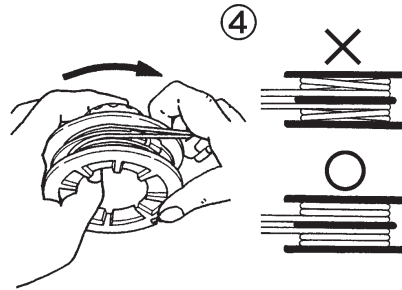
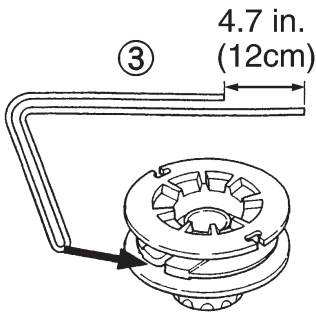
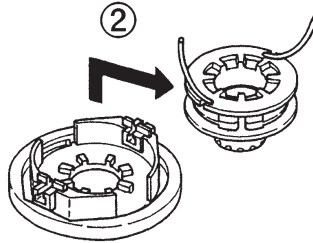
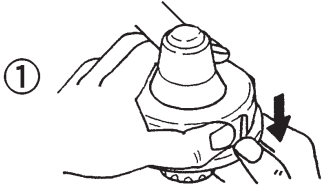
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PT104



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Original instructions

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