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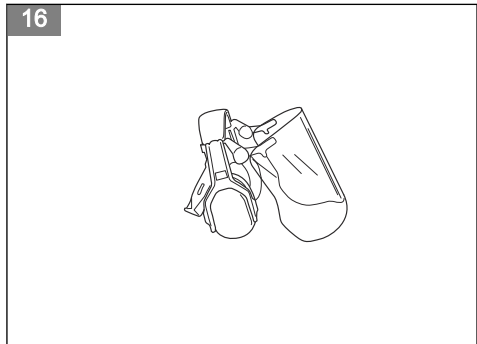
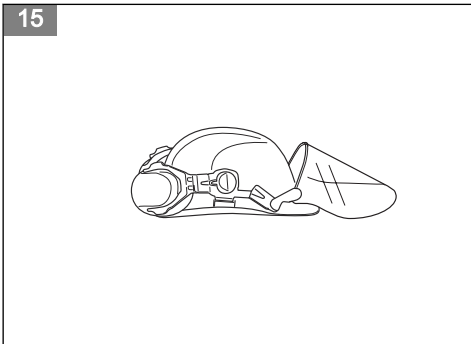
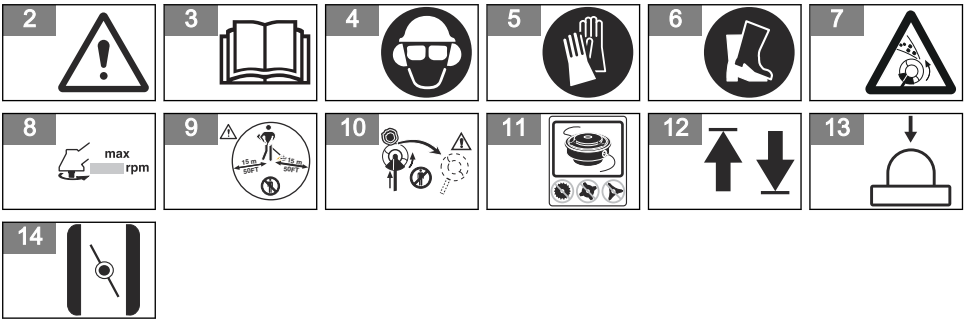
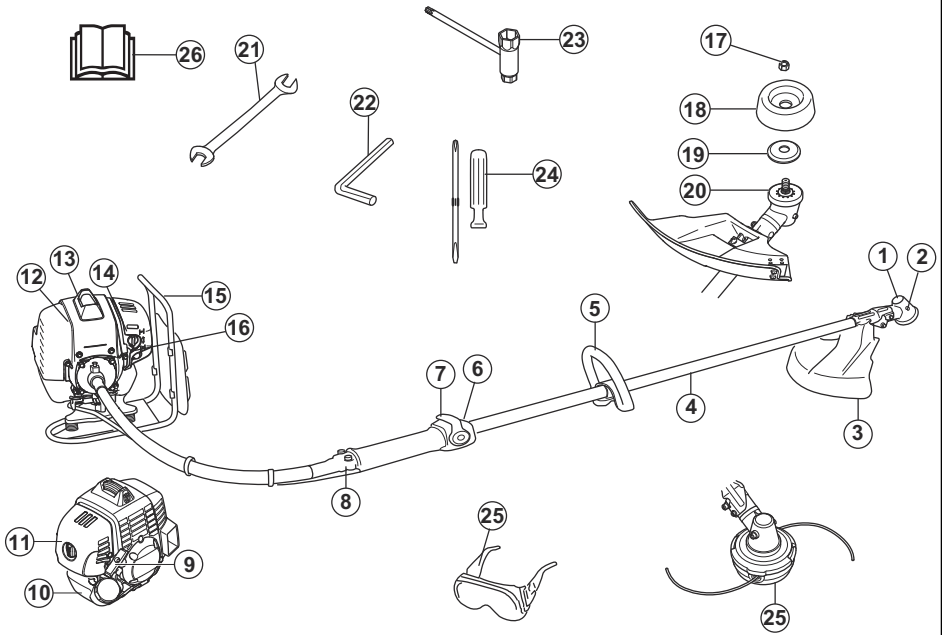


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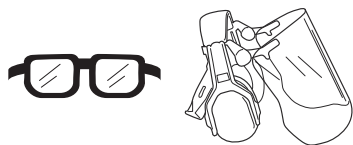
EN Operator's manual
ZH 操作手册

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24-35

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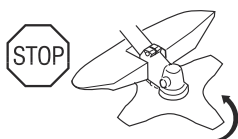
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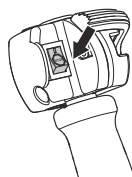
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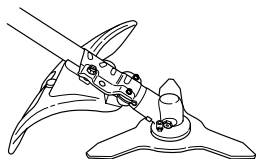
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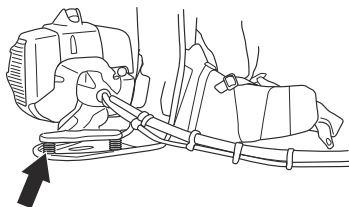
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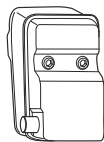
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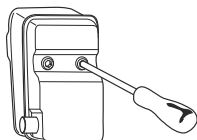
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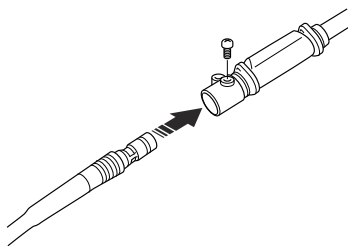
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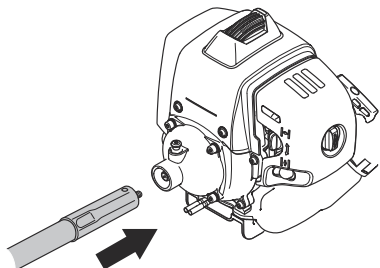
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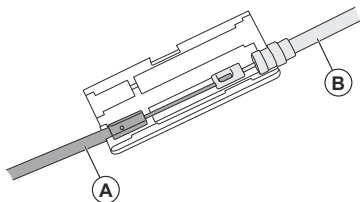
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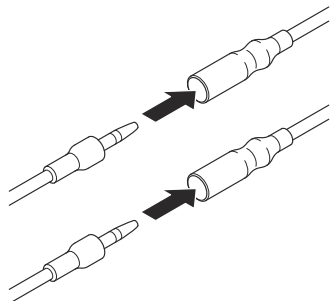
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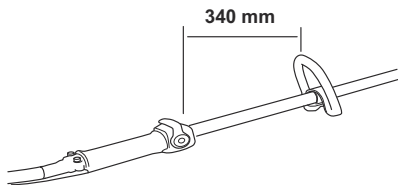
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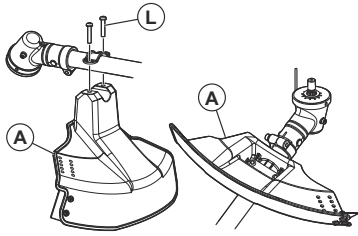
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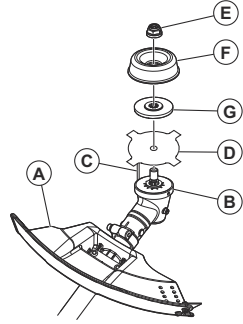
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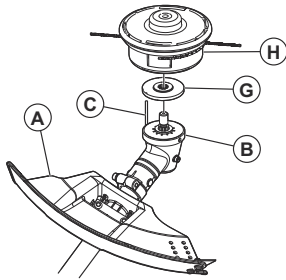
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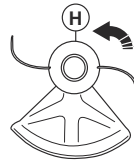
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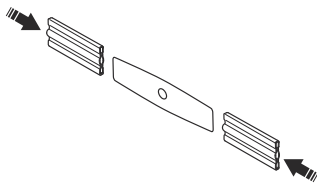
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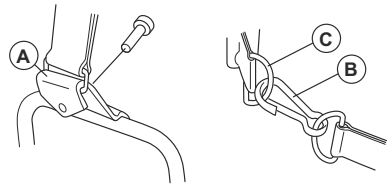
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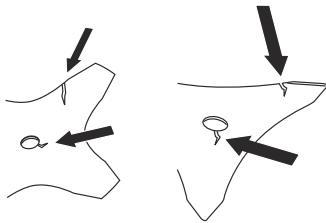
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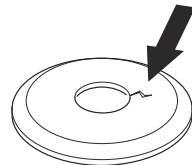
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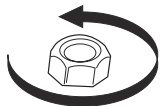
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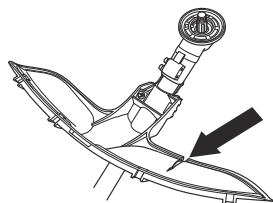
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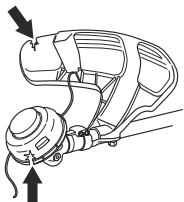
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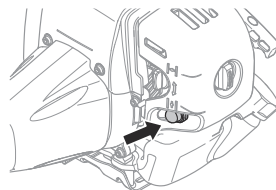
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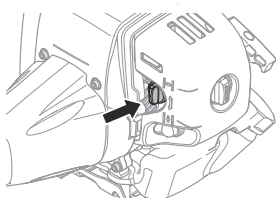
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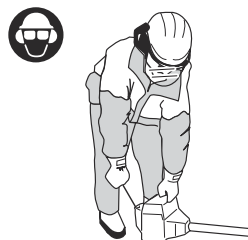
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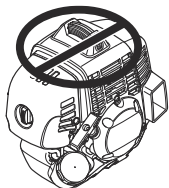
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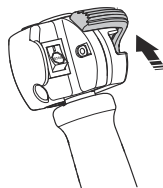
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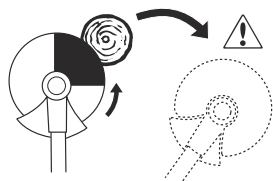
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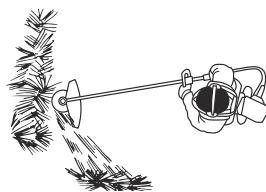
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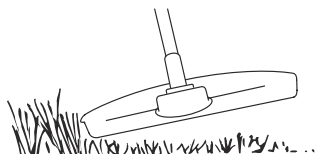
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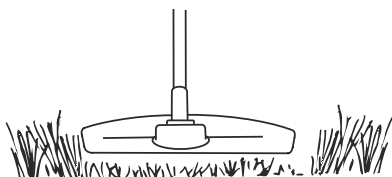
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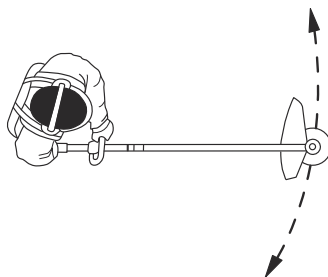
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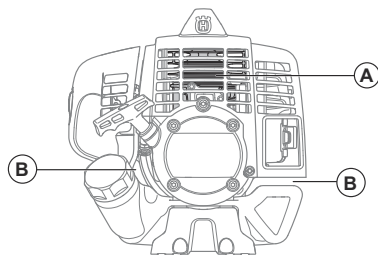
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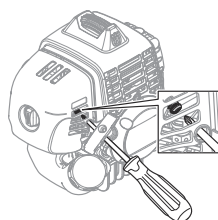
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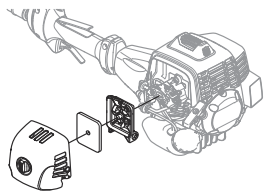
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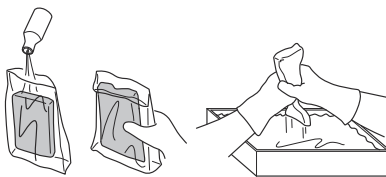
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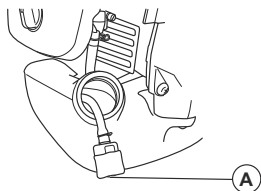
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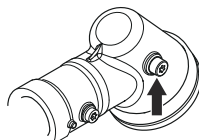
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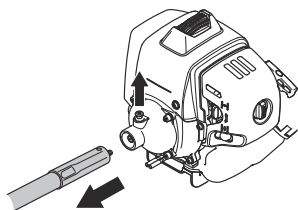
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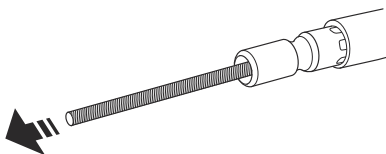
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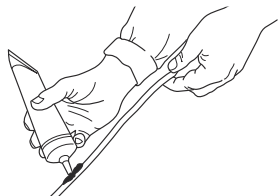
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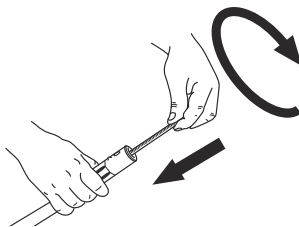
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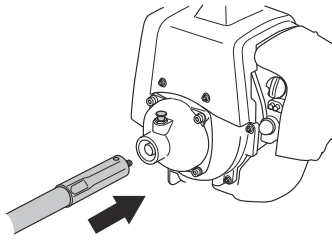
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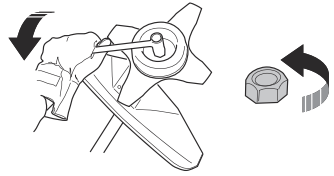
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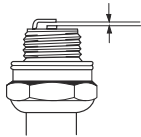
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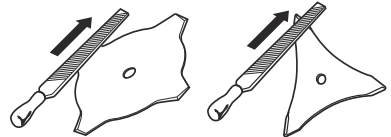
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Introduction

Product overview

(Fig. 1)

1. Bevel gear
2. Grease filler cap, bevel gear
3. Cutting attachment guard
4. Shaft
5. Loop handle
6. Throttle trigger
7. Stop switch
8. Flexible drive shaft coupling
9. Starter rope handle
10. Fuel tank
11. Air filter cover
12. Cylinder cover
13. Spark plug cap and spark plug
14. Choke control
15. Frame
16. Air purge
17. Locknut
18. Support cup
19. Support flange
20. Drive disc
21. Spanner
22. Hex key
23. Socket wrench
24. Screwdriver
25. Protective goggles
26. Operator's manual

Product description

The product is a backpack unit with interchangeable cutting attachments.

Intended use

Use the product with a grass blade or a trimmer head to cut different types of vegetation. Do not use the product for other tasks than grass trimming and grass clearing.

Note: National or local regulations can regulate the use. Comply to given regulations.

Only use the product with accessories that are approved by the manufacturer. See *Accessories 543RB on page 23*.

Symbols on the product

(Fig. 2) **WARNING!** This product is dangerous. Injury or death can occur to the operator or bystanders if the product is not used carefully and correctly. To prevent injury to the operator or bystanders, read and obey all safety instructions in the operator's manual.

(Fig. 3) Read the operator's manual carefully and make sure that you understand the instructions before use.

(Fig. 4) Use a protective helmet in locations where objects can fall on you. Use approved hearing protection and approved eye protection.

(Fig. 5) Use approved protective gloves.

(Fig. 6) Use heavy-duty slip-resistant boots.

(Fig. 7) The product can cause objects to eject, which can cause injury.

(Fig. 8) Maximum speed of the output shaft.

(Fig. 9) Keep a minimum distance of 15 m / 50 ft.. to persons and animals during operation of the product.

(Fig. 10) Risk of blade thrust if the cutting equipment touches an object that it does not immediately cut. The product can cut off body parts. Keep a minimum of 15 m / 50 ft. distance to persons and animals during operation of the product.

- (Fig. 11) Only use a flexible cutting wire. Do not use metal cutting elements. Apply this for grass guard accessory.
- (Fig. 12) The arrows shows the limit for the handle position.
- (Fig. 13) Air purge bulb.
- (Fig. 14) Choke.

yyyywwxxx The rating plate shows the serial number.
x **yyyy** is the production year and **ww** is the production week.

Note: Other symbols/decals on the product refer to certification requirements for other commercial areas.

Product liability

As referred to in the product liability laws, we are not liable for damages that our product causes if:

- the product is incorrectly repaired.
- the product is repaired with parts that are not from the manufacturer or not approved by the manufacturer.
- the product has an accessory that is not from the manufacturer or not approved by the manufacturer.
- the product is not repaired at an approved service center or by an approved authority.

Safety

Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



WARNING: Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



CAUTION: Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

Note: Used to give more information that is necessary in a given situation.

General safety instructions



WARNING: Read the warning instructions that follow before you use the product.

- This product 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 product.
- Do not use the product if you are tired, ill, or under the influence of alcohol, drugs or medicine. This has a negative effect on your vision, alertness, coordination and judgment.
- Do not operate the product in bad weather, such as dense fog, heavy rain, strong wind and intense cold. To operate the product in bad weather can make you tired and add risks, such as icy ground and unpredictable felling direction.

- Always be careful and use your common sense. If you feel uncertain about a work situation or the operating procedures after you read the operator's manual, speak to a servicing dealer before you continue.
- Remove the spark plug cap if you let the product out of view.

Safety instructions for assembly



WARNING: Read the warning instructions that follow before you use the product.

- Use approved protective gloves when you assemble the product and cutting attachment.
- Remove the spark plug cap from the spark plug before you assemble the product.
- Make sure that the correct handlebar and cutting attachment guard are assembled before you operate the product.
- A defective or incorrect cutting attachment guard can cause injury. Do not use a cutting attachment without an approved cutting attachment guard.
- Attach the clutch cover and shaft correctly before you start the product.
- The drive disc and support flange must engage correctly in the center hole of the cutting attachment. A cutting attachment that is attached incorrectly can cause injury or death.
- Attach the harness to the product to prevent injury to the operator or others.

Safety instructions for operation



WARNING: Read the warning instructions that follow before you use the product.

- Learn and understand the difference between forestry clearing, grass clearing and grass trimming before you use the product.
- Use personal protective equipment, see *Personal protective equipment on page 12*.
- Long-term exposure to noise can result in permanent hearing loss. Always use approved hearing protection.
- Listen for warning signals and loud voices when you use hearing protection. Always remove your hearing protection when the engine stops.
- Never use the product if it is changed or defective.
- Make sure that the spark plug cap and ignition lead are not damaged to prevent the risk of electrical shock.
- Look around the work area to make sure that no persons, animals or objects have a negative effect on the safety of the operation of the product.
- Look around the work area to make sure that no persons or animals touch the cutting attachment or are hit by objects that are ejected from the cutting attachment.
- Examine the work area. Remove all loose objects, such as stones, broken glass, nails, steel wire and string, that can eject or wind around the cutting attachment.
- Do not use the product in a situation or location where you can not get aid if an accident occurs.
- Do not use the product without a guard.
- Make sure that persons or animals keep a distance of a minimum of 15 m during work. Always look behind you before you turn around with the product. Stop the product immediately if a person or animal enters the 15 m safety zone. If more than one operator does work in the same area, keep a safety distance of a minimum of 2 times the tree height and a minimum of 15 m.
- Make sure that you can move safely and have a safe stance. Examine the area around you for obstacles such as roots, rocks, branch and ditches. Be careful during work on slopes.
- Do not overreach. Keep a stable position of the feet and a good balance at all times.
- Before you start the product, put it on a flat surface, at a minimum of 3 m from the fuel source and from where you fill fuel. Make sure that there are no objects near or touching the cutting attachment.
- If the cutting attachment rotates at idle speed, let a service agent adjust it. Do not use the product until it is adjusted or repaired.
- Look out for thrown objects. Always use approved eye protection and keep away from the cutting attachment guard. Stones and other small objects can eject into your eyes and cause blindness or other injuries.
- Do not put the product down with the engine on unless you have it in clear view.
- Do not remove the cut material, or let other persons remove cut material, while the engine is on or the

cutting equipment rotates, as this can result in serious injury.

- Always stop the engine and make sure that the cutting equipment does not rotate before you remove material that is wound around the blade shaft or caught between the guard and the cutting attachment.
- Be careful when you remove material from around the cutting equipment. The bevel gear gets hot during operation and can cause burn injuries.
- The exhaust fumes from the engine are hot and can contain sparks. Risk of fire. Be careful around dry and flammable material.
- Stop the engine before you move to a new work area. Always attach the transport guard before you move the equipment.
- Overexposure to vibration can lead to circulatory damage or nerve damage in persons who have poor circulation. Speak to your physician if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin color or condition. These symptoms usually show in the fingers, hands or wrists. The risk increases at low temperatures.

Personal protective equipment



WARNING: Read the warning instructions that follow before you use the product.

- Always use approved personal protective equipment when you use the product. Personal protective equipment cannot fully prevent injury but it decreases the degree of injury if an accident does occur. Let your dealer help you select the correct equipment.
- Use a helmet if the trees in the work area have a height of more than 2 m/6.5 ft.

(Fig. 15)

- Use approved hearing protection.

(Fig. 16)

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

(Fig. 17)

- Use gloves when it is necessary, for example when you attach, examine or clean the cutting equipment.

(Fig. 18)

- Use protective boots with steel toe-cap and non-slip soles.

(Fig. 19)

- Use clothing made of a strong fabric. Always use heavy, long pants and long sleeves. Do not use

loose clothing that can catch on twigs and branches. Do not use jewelry, short pants or sandals. Do not go with bare feet. Put your hair up safely above shoulder level.

- Keep first aid equipment near.

(Fig. 20)

Safety devices on the product

For information about where to find the safety devices, see *Product overview on page 10*.



WARNING: Read the warning instructions that follow before you use the product.

- Do not use a product with defective safety devices. Do a check of and do maintenance on the safety devices regularly. If the safety devices are defective, speak to your Husqvarna service agent.
- Do not make changes to safety devices. Do not use the product if protective covers, safety switches or other protective devices are not attached or are defective.
- For all service and repair work on the product, especially for the safety devices, special training is necessary. If the safety devices fail the checks given in this operator's manual, you must let a service agent help you. We guarantee that professional repairs and service is available. If your dealer is not a service agent, speak to them for information about the nearest service agent.
- Do not use a cutting attachment without an approved and correctly attached cutting attachment guard. See *To assemble the cutting equipment on page 15*.

To do a check of the throttle trigger lockout

The throttle trigger lockout locks the throttle trigger at the idle position.

1. Start the engine and apply full throttle.
2. Release the throttle trigger and make sure that the cutting attachment stops. If the cutting attachment rotates, then the carburetor idle speed must be adjusted. Refer to *To adjust the idle speed on page 20*. (Fig. 19)

To do a check of the stop switch

1. Start the engine.
2. Move the stop switch to the stop position and make sure that the engine stops. (Fig. 22)

To do a check of the cutting attachment guard

The cutting attachment guard stops objects that ejects in the direction of the operator. It also prevents injuries that occur if you touch the cutting attachment.

1. Stop the engine.

2. Do a visual check for damages, for example cracks. (Fig. 23)
3. Replace the cutting attachment guard if it is damaged.

To do a check of the vibration damping system

The vibration damping system decreases vibration in the handles to a minimum which makes the operation easier.

1. Stop the engine.
2. Do a visual check for deformation and damage, for example cracks.
3. Make sure that the elements of the vibration damping system are attached correctly. (Fig. 24)

To do a check of the muffler



WARNING: Never use a product with a faulty muffler.

(Fig. 25)



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 product indoors or near combustible material!

The muffler keeps noise levels to a minimum and sends exhaust fumes away from the operator. For mufflers it is very important that you follow the instructions on how to check, maintain and service your product. (Fig. 26)

Regularly check that the muffler is securely attached to the product. (Fig. 27)

Cutting attachment



WARNING: Read the warning instructions that follow before you use the product.

- Do the regular maintenance. Let an approved service center regularly examine the cutting attachment to do adjustments or repairs.
 - The performance of the cutting attachment increases.
 - The life of the cutting attachment increases.
 - The risk of accidents decreases.
- Only use an approved cutting attachment guard. Refer to *Accessories 543RB on page 23*.
- Do not use a damaged cutting attachment.

Grass trimmer head

- Make sure that you wind the grass trimmer line tightly and equally around the drum to decrease the vibration.
- Use only the approved grass trimmer heads and grass trimmer lines. Refer to *Accessories 543RB* on page 23.
- Use a correct length of the grass trimmer line. A long grass trimmer line uses more engine power than a short grass trimmer line.
- Make sure that the cutter on the cutting attachment guard is not damaged.
- Soak the grass trimmer line in water for 2 days before you attach the grass trimmer line to the product. This increases the life of the grass trimmer line.
- Refer to the instructions for the cutting attachment to use the correct procedure to load the cord and the correct cord diameter.

Grass blade

- Use correctly sharpened blades. An incorrectly sharpened or damaged blade increases the risk of injury. Refer to the instructions on the blade packaging.
- Use correctly set blades. An incorrectly set blade increases the risk of injury and damage.

Fuel safety



WARNING: Read the warning instructions that follow before you use the product.

- Do not mix the fuel indoor or near a heat source.
- Do not start the product if there is fuel or engine oil on the product. Remove the unwanted fuel/oil and let the product dry. Remove unwanted fuel from the product.
- If you spill fuel on your clothing, change clothing immediately.
- Do not get fuel on your body, it can cause injury. If you get fuel on your body, use a soap and water to remove the fuel.
- Do not start the engine if you spill oil or fuel on the product or on your body.
- Do not start the product if the engine has a leak. Examine the engine for leaks regularly.
- Be careful with fuel. Fuel is flammable and the fumes are explosive and can cause injuries or death.
- Do not breathe in the fuel fumes, it can cause injury. Make sure that there is sufficient airflow.
- Do not smoke near the fuel or the engine.
- Do not put warm objects near the fuel or the engine.
- Do not add the fuel when the engine is on.
- Make sure that the engine is cool before you refuel.
- Before you refuel, open the fuel tank cap slowly and release the pressure carefully.

- Make sure there are sufficient airflow when refueling and mixing fuel (petrol and two-stroke oil) or draining the fuel tank.
- Fuel and fuel vapor are highly flammable and can cause serious injury when inhaled or allowed to come into contact with the skin. For this reason, observe caution when handling fuel and make sure there is sufficient airflow.
- Tighten the fuel tank cap carefully or a fire can occur.
- Move the product at a minimum of 3 m (10 ft) from the position where you filled the tank before a start.
- Do not put too much fuel in the fuel tank.
- Make sure that a leak cannot occur when you move the product or fuel container.
- Do not put the product or a fuel container where there is an open flame, spark or pilot light. Make sure that the storage area does not contain an open flame.
- Only use approved containers when you move the fuel or put the fuel into storage.
- Empty the fuel tank before long-term storage. Obey the local law on where to dispose fuel.
- Clean the product before long-term storage.
- Remove the spark plug cap before you put the product into storage to make sure that the engine does not start accidentally.

Safety instructions for maintenance



WARNING: Read the warning instructions that follow before you use the product.

- Stop the engine, make sure that the cutting attachment stops. Remove the cylinder cover and disconnect the spark plug cap before you do the maintenance.
- The exhaust fumes from the engine contain carbon monoxide, an odourless, poisonous and very dangerous gas that can cause death. Do not run the product indoors or in closed spaces.
- The exhaust fumes from the engine are hot and can contain sparks. Do not run the product indoors or near flammable material.
- Accessories and changes to the product that are not approved by the manufacturer, can cause serious injury or death. Do not change the product. Always use original accessories.
- If the maintenance is not done correctly and regularly, there is an increased risk of injury and damage to the product.
- Only do the maintenance as this operator's manual recommends. Let an approved Husqvarna service agent do all other servicing.
- Let an approved Husqvarna service agent do servicing on the product regularly.
- Replace damaged, worn or broken parts.

Assembly

Introduction



WARNING: Before you assemble the product, you must read and understand the safety chapter.



WARNING: Remove the spark plug cable from the spark plug before you assemble the product.

To assemble the cutting equipment

The cutting equipment includes a cutting attachment and a cutting attachment guard.



WARNING: Use protective gloves.



WARNING: Always use the cutting attachment guard that is recommended for the cutting attachment. See *Accessories 543RB on page 23*.



WARNING: An incorrectly attached cutting attachment can result in injury or death.

To assemble the flexible drive shaft

1. Remove the screw at the shaft coupling. (Fig. 28)
2. Put the flexible drive shaft through the loops at the wire harness.
3. Turn and push the flexible drive shaft at the same time to connect it.
4. Tighten the 2 screws.
5. Assemble the drive shaft sleeve in the clutch cover. Turn and push the drive shaft at the same time to connect it. (Fig. 29)
6. Make sure that the locking pin goes back to its initial position.

To connect the throttle cable and the stop switch wires

1. Open the cover.
2. Connect the throttle wire from the wire harness (A) and the throttle wire (B) from the engine in the cover. (Fig. 30)
3. Close the cover.
4. Connect the stop switch wires into the related connectors from the engine. (Fig. 31)

To attach the loop handle

1. Put the loop handle on the shaft. (Fig. 32)
2. Attach the loop handle with the nut and the screw. Do not tighten fully.
3. Adjust the position of the handle to an applicable work position and tighten the screws fully.

To attach the cutting attachment guard

1. Attach the cutting attachment guard (A) onto the shaft with the bolt (L). (Fig. 33)

To attach the grass blade or the grass cutter

1. Install the drive disc (B) on the output shaft. (Fig. 34)
2. Turn the output shaft until 1 of the holes in the drive disc (B) aligns with the related hole in the gear housing.
3. Put the locking pin (C) in the hole to lock the shaft.
4. Put the blade (D), support flange (G) and support cup (F) on the output shaft.
5. Install the nut (E). Hold the shaft of the wrench near the blade guard. To tighten the nut, you must turn the wrench in the opposite direction of rotation. Tighten the nut to a torque of 35-50 Nm/3.5-5 kpm.

Note: Left hand thread.

To attach the trimmer head

1. Attach the drive disc (B) and support flange (G) to the output shaft. (Fig. 35)
2. Turn the output shaft until the hole in the drive disc aligns with the hole in the gear housing.
3. Put the locking pin (C) in the hole to lock the shaft.
4. Turn the trimmer head (H) counterclockwise. (Fig. 36)
5. To disassemble, do the reverse procedure.

To install the 2-teeth blade in the guard

1. Install the blade in the transport guard. (Fig. 37)

To assemble the shoulder harness

1. Put the ring of the shoulder harness strap through the hook (A) and attach it with the bolt.
2. Attach the hook (B) of the shoulder strap to the ring (C) on the frame. (Fig. 38)

To adjust the shoulder harness

1. Stop the engine.
2. Put on the harness.
3. Adjust the shoulder strap to make the product weigh equally on your shoulders.

Operation

Introduction



WARNING: Before you operate the product, you must read and understand the safety chapter.

Before you operate the product

- Examine the work area to make sure that you know the type of terrain, the slope of the ground and if there are obstacles such as stones, branches and ditches.
- Do an overhaul inspection of the product.
- Do the safety inspections, maintenance and servicing that are given in this manual.
- Make sure that all covers, guards, handles and the cutting equipment are correctly attached and not damaged.
- Make sure that there are no cracks at the bottom of the grass blade teeth or by the center hole of the blade. Replace the blade if it is damaged.

(Fig. 39)

- Examine the support flange for cracks. Replace the support flange if it is damaged.

(Fig. 40)

- Make sure that the locknut can not be removed by hand. If you can remove it by hand, it does not lock the cutting attachment sufficiently and you must replace it.

(Fig. 41)

- Examine the blade guard for damages or cracks. Replace the blade guard if it has been hit or if it has cracks.

(Fig. 42)

- Examine the trimmer head and cutting attachment guard for damages or cracks. Replace the trimmer head and cutting attachment guard if they have been hit or if they have cracks.

(Fig. 43)

Fuel

To use fuel



CAUTION: This product has a two-stroke engine. Use a mixture of gasoline and two-stroke engine oil. Make sure to use the correct quantity of oil in the mixture. Incorrect ratio of gasoline and oil can cause damage to the engine.

Husqvarna alkylate fuel



CAUTION: Do not use gasoline with an octane number less than 90 RON (87 AKI). This can cause damage to the product.



CAUTION: Do not use gasoline with more than 10% ethanol concentration (E10). This can cause damage to the product.



CAUTION: Do not use leaded gasoline. This can cause damage to the product.

We recommend Husqvarna alkylate fuel for best performance. This fuel gives less dangerous exhaust fumes compared to regular fuel. It keeps the engine clean and increases the engine life. Husqvarna alkylate fuel is not available in all commercial areas.

- Always use new unleaded gasoline with a minimum octane number of 90 RON (87 AKI) and with less than 10% ethanol concentration (E10).
- Use gasoline with a higher octane number if you frequently use the product at continuously high engine speed.
- Always use a good quality unleaded gasoline/oil mixture.

Two-stroke oil

- For best results and performance use Husqvarna two-stroke oil, which is specially formulated for our two-stroke engines.
- 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 you select an oil.
- Do not use two-stroke oil intended for water-cooled outboard engines, also referred to as outboard oil.
- Do not use oil intended for four-stroke engines.

Gasoline, litre	Two-stroke oil, litre
	2% (50:1)
5	0.10
10	0.20
15	0.30
20	0.40

To make the fuel mixture

Note: Always use a clean fuel container when you mix the fuel.

Note: Do not make more than 30 days quantity of fuel mixture.

1. Add half of the gasoline quantity.
2. Add the full quantity of oil.
3. Shake the fuel mixture to mix the contents.
4. Add the remaining gasoline quantity.
5. Shake the fuel mixture to mix the contents.
6. Fill the fuel tank.

To add fuel

- Always use a fuel container with an antispill valve.
- If there is some fuel on the container, remove the unwanted fuel and let the container dry.
- Make sure that the area near the fuel tank cap is clean.
- Shake the fuel container before you add the fuel mixture to the fuel tank.

Work position

- Hold the product with 2 hands.
- Hold the product on the right side of your body.
- Keep the cutting attachment below waist level.
- Always keep the product attached to the harness.
- Keep body parts away from the hot surfaces.
- Keep body parts away from the cutting attachment.

To start the engine



WARNING: Keep the safety distance of 15 m when the engine starts. There is a risk that the cutting attachment starts to rotate.

1. Set the stop switch to the start position. (Fig. 22)
2. Push the air purge bulb until the bulb starts to fill with fuel. (Fig. 44)
3. Set the choke control in the choke position. (Fig. 45)
4. Hold the body of the product on the ground with your left hand. Do not step on the product. (Fig. 46)
5. Pull the starter rope handle slowly until you feel some resistance, then pull the starter rope handle with force.



WARNING: Do not wind the starter rope around your hand.

6. Continue to pull the starter rope handle until the engine starts.



CAUTION: Do not pull the starter rope until it stops. Do not let go of the starter rope when it is fully extended. Release the starter rope slowly. Risk of damage to the product.

7. When the engine starts, put the choke control in the run position and apply full throttle. The throttle trigger automatically disengages from the start position.
8. Make sure that the engine runs smoothly.



WARNING: Keep body parts away from the spark plug cap. Risk of burn injuries. Do not use the product with a damaged spark plug cap. Risk of electrical shock.

(Fig. 47)

Note: Push the lever forward to set the throttle control in the idling position.(Fig. 48)

To stop the engine

- Move the stop switch to the stop position. (Fig. 22)

Blade thrust

A blade thrust is when the product moves to the side quickly and with force. A blade thrust occurs when the grass blade hits or catches on an object that cannot be cut. A blade thrust can eject the product or operator in all directions. There is a risk of injury to the operator and bystanders.

The risk increases in areas where it is not easy to see the material that is cut.

Do not cut with the area of the blade that is shown in black. The speed and movement of the blade can cause blade thrust. The risk increases with the thickness of the stem that is cut.

(Fig. 49)

Grass clearing with a grass blade



CAUTION: Do not use grass blades and grass knives on wood. Use grass blades and grass knives for long or heavy grass only.

- Move the product from side to side.
- Start the movement from right to left when you cut. Move the product to the right before you cut again.
- Cut with the left side of the grass blade. (Fig. 50)
- Tilt the grass blade to the left to make the grass fall in a line. This makes it easy to collect the grass.
- Keep a stable position with your feet apart.
- Move forward after each right movement and make sure that you have a stable position again before you cut again.

- Keep the support cup with a light pressure against the ground to make sure that the grass blade does not hit the ground.
- Obey these instructions to decrease the risk that cut material winds around the grass blade:
 - a) Apply full throttle.
 - b) Do not move the grass blade through cut material when you move the product from left to right.
- Before you collect the cut material, stop the engine and remove the product from the harness. Put the product down on the ground.

5. Try to work rhythmically. Stand firmly with your feet apart. Move forward after the return stoke and stand firmly again.
6. Let the support cup rest lightly against the ground. It is used to protect the blade from hitting the ground.
7. Reduce the risk of material wrapping around the blade by always work at full throttle and avoid the previously cut material during the return stoke.
8. Stop the engine, unclip the harness and place the machine on the ground before you start to collect the cut material.

To cut the grass

1. Make sure that the trimmer line is parallel to the ground when you cut the grass. (Fig. 53)
2. Do not push the trimmer head to the ground. This can cause damage to the product.
3. Move the product from side to side when you cut grass. Use full speed. (Fig. 54)

To sweep the grass

The airflow from the rotating trimmer line can be used to remove cut grass from an area.

1. Hold the trimmer head and the trimmer line parallel to the ground and above the ground.
2. Apply full throttle.
3. Move the trimmer head from side to side and sweep the grass.



WARNING: Clean the trimmer head cover each time you assemble new trimmer line to prevent unbalance and vibrations in the handles. Also do a check of the other parts of the trimmer head and clean it if necessary.

To replace trimmer line

Refer to the last page of this operator's manual.

Grass trimming with a trimmer head

To trim the grass

1. Hold the trimmer head immediately above the ground at an angle. Do not push the trimmer line into the grass. (Fig. 51)
2. Decrease the length of the trimmer line by 10-12 cm / 4-4.75 in.
3. Decrease the engine speed to decrease the risk of damage to plants.
4. Use 80 % throttle when you cut grass near objects. (Fig. 52)

To clear grass with a grass blade

1. Grass blades and grass cutters must not be used on woody stems.
2. A grass blade is used for all types of tall or coarse grass.
3. The grass is cut down with a sideways, swinging movement, where the movement from right-to-left is the clearing stoke and the movement from left-to-right is the return stoke. Let the left-hand side of the blade (between 8 and 12 o'clock) do the cutting.
4. 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.

Maintenance

Introduction



WARNING: Before you do maintenance, you must read and understand the safety chapter.

For all servicing and repair work on the product, special training is necessary. We guarantee the availability of professional repairs and servicing. If your dealer is not a service agent, speak to them for information about the nearest service agent.

Maintenance schedule

Maintenance	Daily	Weekly	Monthly
Clean the external surface.	X		
Examine the harness for damages.	X		

Maintenance	Daily	Weekly	Monthly
Do a check of the throttle trigger lockout and the throttle trigger, see <i>To do a check of the throttle trigger lockout on page 13.</i>	X		
Make sure that the cutting attachment does not rotate at idle speed.	X		
Do a check of the stop switch, see <i>To do a check of the stop switch on page 13.</i>	X		
Examine the cutting attachment guard for damages and cracks.	X		
Make sure that the grass blade is aligned with the center, that it is sharp and does not have damages on the blade or the center hole.	X		
Examine the trimmer head for damages and cracks. Replace if it is damaged.	X		
Examine the handle and handlebar for damage and make sure that they are attached correctly.	X		
For cutting attachments with a support cup, tighten the locking screw fully.	X		
For cutting attachments with a locknut, tighten the locknut fully.	X		
Examine the transport guard for damage and make sure that it can be attached correctly.	X		
Examine the engine, the fuel tank and the fuel lines for leaks.	X		
Clean the air filter. Replace if it is necessary.	X		
Tighten nuts and screws	X		
Examine the fuel filter for contamination and the fuel hose for cracks and other defects. Replace if it is necessary.	X		
Examine all cables and connections.	X		
Examine the starter and the starter rope for damages.		X	
Examine the vibration damping units for damages and cracks.		X	
Examine the spark plug, see <i>To examine the spark plug on page 21.</i>		X	
Clean the cooling system.		X	
Make sure that the bevel gear is filled to $\frac{3}{4}$ with grease.		X	
Clean the external surface of the carburetor and the area around it.		X	
Examine the clutch, clutch springs and the clutch drum for wear. Replace if it is necessary.			X
Replace the spark plug.			X
Lubricate the drive shaft. ¹			X

To clean the cooling system



CAUTION: A dirty or blocked cooling system can make the product too hot, which can cause damage to the product.

The cooling system includes:

- The cooling fins on the cylinder (A).

- The air intake (B).

(Fig. 55)

- Make sure that the cooling system is not dirty or blocked.
- Clean the cooling system with a brush weekly or more frequently if it is necessary.

¹ At an interval of 6 months.

To adjust the idle speed

Your Husqvarna product is made to specifications that decrease harmful emissions.

- Make sure that the air filter is clean and the air filter cover is attached before you adjust the idle speed.
- Adjust the idle speed with the idle adjustment screw T which is identified with "T" mark.



WARNING: If the cutting attachment does not stop when you adjust the idle speed, speak to your servicing dealer. Do not use the product until it is correctly adjusted or repaired.

- The idle speed is correct when the engine operates smoothly in all positions. The idle speed must be below the speed when the cutting attachment starts to turn.
1. Turn the idle adjustment screw clockwise until the cutting attachment starts to turn. (Fig. 56)
 2. Turn the idle adjustment screw counterclockwise until the cutting attachment stops.

Note: Refer to *Technical data on page 22* for the recommended idle speed.

To clean the air filter



CAUTION: An air filter that is damaged must always be replaced.

If you use an air filter for a long time, it cannot be fully cleaned. Replace the air filter with a new one at regular intervals.

1. Remove the air filter cover and remove the air filter. (Fig. 57)
2. Clean the air filter with compressed air.
3. Clean the inner surface of the filter cover. Use air or a brush.
4. Make sure that the filter is dry.

To apply oil to the foam air filter



CAUTION: Always use Husqvarna special air filter oil. Do not use other types of oil.



WARNING: Put on protective gloves. The air filter oil can cause skin irritation.

1. Put the foam air filter in a plastic bag.
2. Put the oil in the plastic bag.
3. Rub the plastic bag to supply the oil equally across the foam air filter.

4. Push the unwanted oil out of the foam air filter while in the plastic bag. (Fig. 58)

Fuel filter

When the engine runs short of fuel, make sure that the air hole in the fuel tank cap and the fuel filter (A) are clean. (Fig. 59)

Bevel gear

The bevel gear is filled to $\frac{3}{4}$ with grease at the factory. Before you use the product, make sure that the grease level has not changed. Use Husqvarna special grease if it is necessary to fill up. Do not replace the grease in the bevel gear. Let servicing personnel do the repair of the bevel gear.

(Fig. 60)

To lubricate the flexible drive shaft

1. Pull up the knob and remove the drive shaft sleeve from the clutch cover. (Fig. 61)
 - a) Shake or pull the drive shaft out of the drive shaft sleeve. (Fig. 62)
2. Lubricate the drive shaft. (Fig. 63)
3. Push and turn the drive shaft at the same time to put it back in the drive shaft sleeve. Keep approximately 10 mm / 0.40 in. of the drive shaft outside the edge of the drive shaft sleeve. (Fig. 64)
4. Align the hole in the drive shaft sleeve with the knob on the clutch cover. (Fig. 65)
5. Push and turn the drive shaft at the same time to connect it.

To attach and remove the locknut



WARNING: Stop the engine, use protective gloves and be careful around the sharp edges of the cutting attachment.

A locknut is used to attach some types of cutting attachments. The locknut has a left thread.

- To attach, tighten the locknut in the opposite direction to the direction of turning of the cutting attachment.
- To remove the locknut, loosen the locknut in the same direction as the cutting attachment rotates.
- To loosen and tighten the locknut, use a socket wrench with a long shaft. The arrow in the picture shows the area where you can operate the socket wrench. (Fig. 66)



WARNING: When you loosen and tighten the locknut, there is a risk of injury from the blade. You must always make sure that the blade guard prevents injury to your hand when you do this.

Note: Make sure that you can not turn the locknut by hand. Replace the nut if the nylon lining does not have a resistance of a minimum of 1.5 Nm. The locknut must be replaced after it has been put on approximately 10 times.

- If the spark plug is dirty, clean it and make sure that the electrode gap is correct, refer to *Technical data on page 22*. (Fig. 67)
- Replace the spark plug if it is necessary.

To examine the spark plug



CAUTION: Always use the recommended spark plug type. Incorrect spark plug type can cause damage to the product.

- Examine the spark plug if the engine is low on power, is not easy to start or does not operate correctly at idle speed.
- To decrease the risk of unwanted material on the spark plug electrodes, obey these instructions:
 - a) Make sure that the idle speed is correctly adjusted.
 - b) Make sure that the fuel mixture is correct.
 - c) Make sure that the air filter is clean.



WARNING: Stop the engine. Use protective gloves.

- To sharpen the grass knife or grass blade correctly, refer to the instructions that come with the cutting attachment.
- Sharpen all edges equally to keep the balance.
- Use a single-cut flat file. (Fig. 68)



WARNING: Always discard a blade that is damaged. Do not try to make a bent or twisted blade straight and use it again.

Troubleshooting

The engine does not start

Check	Possible cause	Procedure
Stop switch	The stop switch is in the stop position.	Let an approved service agent replace the stop switch.
Fuel tank	Incorrect fuel type.	Drain the fuel tank and fill with correct fuel.
Spark plug	The spark plug is dirty or wet.	Make sure that the spark plug is dry and clean.
	The spark plug electrode gap is incorrect.	Clean the spark plug. Make sure that the electrode gap is correct. Make sure that the spark plug has a suppressor.
		Refer to technical data for correct electrode gap.
	The spark plug is loose.	Tighten the spark plug.

The engine starts but stops again

Check	Possible cause	Procedure
Fuel tank	Incorrect fuel type.	Empty the fuel tank and fill it with correct fuel.
Air filter	The air filter is clogged.	Clean the air filter.

Transportation and storage

- Let the product cool before transportation or storage.
- Remove the spark plug cap before long-term storage.
- Attach the product during transportation. Make sure that it cannot move.
- Make sure that there is no risk of fuel leaks, fuel fumes, sparks or flames during transportation and storage.
- Attach the transport guard during transportation and storage.
- Clean and do servicing on the product before long-term storage.

Technical data

Technical data

	543RB
Engine	
Cylinder displacement, cm ³	40.1
Cylinder bore, mm	40.5
Stroke, mm	31.1
Idle speed, rpm	3000
Recommended max. speed, rpm	12000
Speed of output shaft, rpm	9600
Max. engine output, according to ISO 8893, kW @ rpm	1.5/8500
Catalytic converter muffler	No
Ignition system	
Spark plug	NGK CMR7H-10
Electrode gap, mm	0.9-1.0
Fuel and lubrication system	
Fuel tank capacity, litre	0.75
Weight	
Without fuel, cutting attachment and guard, kg	9.0
Sound levels²	
Equivalent sound pressure level at the operator's ear, measured according to EN ISO 11806 and ISO 22868, dB(A), min./max.:	96
Vibration levels³	
Equivalent vibration levels ($a_{hv,eq}$) at handles, measured according to EN ISO 11806 and ISO 22867, m/s ² :	

² Reported data for equivalent sound pressure level has a typical statistical dispersion (standard deviation) of 1 dB (A).

³ Reported data for vibration level has a typical statistical dispersion (standard deviation) of 1 m/s².

	543RB
Equipped with trimmer head, front/rear	4.0/2.7

Accessories

Accessories 543RB

Approved accessories	Accessory type	Cutting attachment guard, art. no.
Grass blade/grass cutter	Multi 300-3 (Ø 300, 3 teeth)	588 55 02-01
	Multi 255-3 (Ø 255, 3 teeth)	
	Multi 275-4 (Ø 275, 4 teeth)	
	Grass 255-4 (Ø 255, 4 teeth)	
Trimmer head	PT104	
Support cup	Fixed	

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引言

产品概览

(图 1)

1. 斜齿轮
2. 斜齿轮润滑油加注口盖
3. 切割刀片防护罩
4. 驱动轴
5. 环形手柄
6. 油门扳机
7. 停止开关
8. 柔性驱动联轴节
9. 启动绳把手
10. 燃油箱
11. 空气滤清器外壳
12. 气缸罩
13. 火花塞帽和火花塞
14. 阻气门开关
15. 机架
16. 注油泵
17. 锁紧螺母
18. 支撑杯
19. 支撑凸缘
20. 驱动盘
21. 开口扳手
22. 内六角扳手
23. 套筒扳手
24. 螺丝刀
25. 护目镜
26. 说明书

产品说明

本产品为带可互换切割刀片的背负式装置。

预期用途

本产品与打草刀片或打草头配合使用，可用于修剪多种草本植物。本产品仅可用于草坪修剪和草坪清理，切勿用于其他任务。

注意：本机的使用可能会受到国家或地方法规的管制。请遵守指定的法规。

仅将本产品与制造商批准的附件配套使用。请参阅附件 543RB 在第 35 页上。

本产品上的符号

- (图 2) 警告！本产品非常危险。如果粗心大意或不正确地使用本产品，可能会导致操作人员或旁观者受伤甚至死亡。为防止伤害操作人员或旁观者，请仔细阅读并遵守说明书中的所有安全须知。
- (图 3) 请认真阅读本说明书，确保在充分理解各项说明之后再使用本产品。
- (图 4) 在可能被落物砸中的地方请使用保护头盔。请使用获得批准的听觉和眼睛保护装备。
- (图 5) 请使用获得批准的保护手套。
- (图 6) 请穿上结实、防滑的安全鞋。
- (图 7) 本产品可能致使物体弹射，这有可能会造成伤害。
- (图 8) 输出轴的极限速度。
- (图 9) 本产品运行期间，务必与人员和动物保持至少 15 m/50 ft 的距离。
- (图 10) 如果切割设备接触到其未立即切断的物体，那么存在甩刀的风险。产品可能会切断身体部位。本产品运行期间，要与人员和动物保持至少 15 m/50 ft 的距离。
- (图 11) 仅使用柔性切割丝。不得使用金属切割元件。安装打草防护罩附件后，仍需遵守此要求。
- (图 12) 箭头显示手柄杆位置的极限位置。
- (图 13) 注油泵球囊。
- (图 14) 阻气门。

yyyywwxxx 铭牌上显示序列号。yyyy 是生产年份，ww 是生产周。
x

注意：产品上的其他符号/标识涉及其他商用领域的认证要求。

产品责任

如产品责任法律中所引用的，在以下情况下，我们对我们的产品所导致的损坏不承担责任：

- 未正确修理产品。
- 使用并非来自制造商或者未获得制造商批准的零部件修理产品。
- 产品具有并非来自制造商或者未获得制造商批准的附件。
- 未在获得批准的服务中心修理产品，或者并非由获得批准的机构修理产品。

安全性

安全定义

本手册使用了“警告”、“小心”和“注意”来指出特别重要的内容。



警告：当不遵守手册中的说明可能会给操作员或周围人员带来伤害或死亡风险时，会使用此标志。



小心：当不遵守手册中的说明可能会对产品、其他材料或附近区域造成损坏时，会使用此标志。

注意：用于提供特定状况下所需的更多信息。

一般安全须知



警告：请在使用本产品前阅读下面的警告说明。

- 本产品在工作期间会产生电磁场。电磁场在某些情况下会干扰有源或无源医疗植入体。为了减少严重或致命性伤害风险，我们建议使用医疗植入体的人员在操作本产品之前事先咨询其医生及医疗植入体制造商。
- 当您感到疲倦、生病或受到酒精、麻醉或药物的影响时，请勿使用本产品。这些因素会对您的视觉、警惕性、协调能力或判断力产生不良影响。
- 请勿在不良的天气情况下操作本产品，例如浓雾、大雨、强风和严寒等。在天气不良的情况下操作本产品容易令人感到疲倦并增加危险，例如结冰地面和不可预测的倒落方向等。
- 请务必多加小心，并运用常识来判断。如果您在阅读说明书之后对工作状况或操作流程依然不确定，应在咨询保养经销商之后再继续操作。
- 如果要产品置于视线以外的地方，请摘下火花塞帽。

装配安全须知



警告：请在使用本产品前阅读下面的警告说明。

- 在装配本产品 and 切割锯片时，请戴上获得批准的防护手套。
- 安装产品之前，先拆下火花塞中的火花塞电缆。

- 在操作本产品之前，请确保已装配正确的手柄杆和切割刀片防护罩。
- 有故障或不正确的切割刀片防护罩可能会导致伤害。切勿在未安装经过批准的切割刀片防护罩的情况下使用切割刀片。
- 在启动本产品之前，请正确安装离合器罩和驱动轴。
- 驱动盘和支撑凸缘必须正确接合在切割刀片的中心孔中。切割刀片固定不当可致人受伤或死亡。
- 将背带连接到本产品上，以防止对操作员或他人造成伤害。

操作安全须知



警告：请在使用本产品前阅读下面的警告说明。

- 在使用本产品之前，请查阅和了解林地清理、草坪清理和草坪修剪之间的差异。
- 使用个人防护装备，请参阅 *个人防护装备在第 26 页上*。
- 长期接触噪音可能会导致永久性听力受损。请务必使用检验合格的听觉保护设备。
- 配戴听觉保护设备时，请留意警告信号或呼喊声。务必在引擎停机后摘下听觉保护设备。
- 切勿使用改装或有故障的产品。
- 确保火花塞帽和点火器导线完好无损，以免出现电击风险。
- 留心工作区域周围，确保没有人、动物或物体会对安全操作产品有负面影响。
- 留心工作区域周围，确保没有人或动物会触碰到切割刀片或者被切割刀片弹出的物体击中。
- 查看工作区域。清除所有可能被弹出或缠绕切割刀片的松散物体，如石块、碎玻璃、钉子、钢丝、线缆等。
- 切勿在发生意外时无法获得帮助的场所或地方使用产品。
- 切勿在未配备防护罩的情况下使用产品。
- 确保作业期间，与人员或动物保持最少 15 m 的距离。拿着产品转身时，务必注意您身后的状况。如果有人或动物进入 15 m 安全区域，应立即关闭产品。如果同一区域内有多名操作员一起作业，请保持最少两倍树高和最少 15 m 的安全距离。
- 确保您可以安全移动和站稳。检查您的周围区域是否存在树根、岩石、树枝和沟渠等障碍物。在斜坡上作业时要小心谨慎。
- 请勿伸得过远。请始终牢牢站稳并保持良好的平衡。

- 启动产品之前，请将其置于平坦表面上，而且离加油区和加油站应至少 3 m。确保无物体触碰切割刀片或在其附近。
- 如果切割刀片在怠速时转动，请联系保养厂对其进行调整。在产品经过调整或修理之前，切勿使用产品。
- 注意弹出物。务必使用经批准的眼部防护装备，并且远离切割刀片防护罩。石子和其他细小物体可能会弹入眼中，导致失明或其他伤害。
- 切勿在引擎开启的情况下放下产品，除非是放在您可以清楚看到的位置。
- 在引擎开启或切割设备旋转时，切勿清除落料或者让他人清除落料，因为这可能会导致严重的人身伤害。
- 在清除继续绕在刀片轴上或卡在防护罩和切割刀片之间的材料之前，务必先停止引擎，并确保切割刀片不转动。
- 清除切割刀片周围的材料时务必小心谨慎。斜齿轮在运行期间会发热，可能会导致灼伤。
- 引擎排出的废气温度很高，并可能带有火花。失火危险。在干燥易燃材料周围务必小心谨慎。
- 在移动到新的作业区域之前，先停止引擎。在移动设备之前，务必先装上运输护板。
- 血液循环不佳的人受到过度振动时，可能会导致血液循环系统或神经受损。如果您因过度振动而引起以下症状，请咨询医生。例如：麻痹、感觉麻木、发痒、刺痛、痛楚、体力缺乏、肤色或身体状况发生变化。这些症状通常出现在手指、双手或手腕上。低温情况下，这种危险会增加。

个人防护装备



警告： 请在使用本产品前阅读下面的警告说明。

- 操作产品时务必使用获得批准的个人防护装备。个人防护装备不能完全避免受伤，但当意外发生时，可降低伤害程度。请经销商协助您选择正确的装备。
- 如果工作区域的树木高度超过 2 m/6.5 ft，请佩戴头盔。

(图 15)

- 请使用获得批准的听觉保护设备。

(图 16)

- 请使用获得批准的眼部保护装备。如果佩戴面罩，必须同时佩戴获得批准的护目镜。在美国，经检验合格的护目镜必须符合 ANSI Z87.1 标准；在欧盟国家/地区，必须符合 EN 166。

(图 17)

- 必要时戴上手套，例如在安装、检查或清洁切割设备时。

(图 18)

- 请穿上带有钢制鞋头与防滑鞋底的防护靴。

(图 19)

- 穿着高强度纤维制成的衣物，务必穿着结实的长裤和长袖衣服。切勿穿着容易钩住小树枝和分枝的衣物。请勿佩戴珠宝，穿着短裤或凉鞋。请勿赤脚行走。确保头发安全地挽在肩部以上。

- 请将急救装备放在附近。

(图 20)

产品上的安全装置

有关在何处找到安全装置的信息，请参阅 *产品概览* 在第 24 页上。



警告： 请在使用本产品前阅读下面的警告说明。

- 切勿在安全装置有故障的情况下使用产品。定期检查和维护安全装置。如果安全装置有故障，请联系您的 Husqvarna 保养厂。
- 切勿改装安全装置。如果防护罩、安全开关或其他防护装备未安装或有故障，则不得使用本产品。
- 要对本产品（尤其是安全装置）执行任何保养和维修工作，都需要经过特殊培训。如果安全装置在本说明书所述检查中不达标，必须请求保养厂提供帮助。我们保证提供专业的维修和保养。如果您的经销商不是保养代理商，请联系该经销商以获取离您最近的保养代理商的信息。
- 在未配备经批准的切割刀片防护罩以及切割刀片防护罩未正确固定的情况下，切勿使用切割刀片。请参阅 *安装切割刀片* 在第 28 页上。

检查油门扳机锁

油门扳机锁定装置用于将油门扳机锁定在怠速位置。

1. 启动引擎，并全开油门。
2. 松开油门扳机，确保切割刀片停止转动。如果切割刀片转动，则必须调整化油器怠速。请参阅 *调整怠速* 在第 32 页上。(图 21)

检查停止开关

1. 启动引擎。
2. 将停止开关移至停止位置，确保引擎停止。(图 22)

检查切割刀片防护罩

切割刀片防护罩可防止物体弹向操作员。它还可防止因触碰切割刀片而致人受伤。

1. 停止引擎。
2. 目视检查是否存在损坏，如裂纹。(图 23)
3. 更换损坏的切割刀片防护罩。

检查防振系统

防振系统用于最大程度减少手柄上的振动，使操作更简单。

1. 停止引擎。
2. 目视检查是否存在变形和损坏，如裂纹。
3. 请确保防振系统的元件已正确固定。(图 24)

检查消音器



警告：切勿使用消音器发生故障的产品。

(图 25)



警告：请记住，引擎的废气很热，并可能带有火花，继而引发火灾。切勿在室内或易燃材料附近启动本产品！

消音器用于最大程度降低噪音级并将引擎的废气导离操作人员。对于消音器，务必按照有关如何检查、维修和保养产品的说明进行操作。

(图 26)

定期检查消音器是否牢固安装在产品上。

(图 27)

切割刀片



警告：请在使用本产品前阅读下面的警告说明。

- 定期进行维护。定期让获得批准的服务中心检查切割刀片，以进行调节或修理。
 - 提高切割刀片的性能。
 - 延长切割刀片的使用寿命。
 - 降低发生事故的风险。
- 仅使用获得批准的切割刀片防护罩。请参阅附件 543RB 在第 35 页上。
- 切勿使用损坏的切割刀片。

打草头

- 确保将打草绳紧密、均匀地缠绕在卷筒上，以减少振动。
- 仅使用经批准的打草头和打草绳。请参阅附件 543RB 在第 35 页上。
- 使用正确长度的打草绳。长打草绳会比短打草绳消耗更多的引擎功率。
- 请确保切割锯片防护罩上的刀片完好无损。
- 将打草绳连接到产品上之前，先将其在水中浸泡 2 天。这可延长打草绳的使用寿命
- 请参阅切割锯片的说明，以使用正确的程序安装打草绳，以及使用正确的打草绳直径。

打草刀片

- 使用经过正确研磨的刀片。未经过正确研磨或损坏的刀片会增加致伤风险。请参阅刀片包装上的说明。
- 使用经过正确设定的刀片。刀片设定不当会增加致伤和损坏风险。

燃油安全须知



警告：请在使用本产品前阅读下面的警告说明。

- 切勿在室内或热源附近混合燃油。
- 如果产品上沾染燃油或引擎机油，切勿启动产品。去除多余的燃油/机油，使产品保持干燥。去除产品上多余的燃油。
- 如果燃油溅到衣物上，请立即更换衣物。
- 切勿使身体沾染上燃油，否则可能会导致伤害。如果身体沾染上燃油，应使用肥皂和水去除燃油。
- 如果产品或身体溅上机油或燃油，切勿启动引擎。
- 如果引擎发生泄漏，切勿启动产品。定期检查引擎是否有泄漏。
- 请小心处理燃油。燃油易燃，油烟具有爆炸性，并且可能导致伤害或死亡。
- 切勿吸入油烟，它可能导致伤害。确保充分通风。
- 切勿在燃油或引擎附近吸烟。
- 切勿在燃油或引擎附近放置高温物体。
- 切勿在引擎运转期间添加燃油。
- 确保重新加注燃油之前，引擎处于冷却状态。
- 重新加注燃油之前，缓缓打开燃油箱盖，并小心释放压力。
- 在加油和混合燃油（汽油和二冲程机油）或排放燃油箱时，确保充分通风。
- 燃油和燃油蒸汽高度易燃，一旦吸入或与皮肤接触，会造成严重伤害。为此需要小心处理燃油，并确保充分通风。
- 小心拧紧燃油箱盖，否则可能会发生火灾。
- 启动之前，将产品从加油位置移开至少 3 m (10 ft)。
- 切勿往燃油箱中加入过多的燃油。
- 确保移动产品或油罐时不会发生泄漏。
- 切勿将产品或油罐置于明火、火花或常明火位置。确保存放区域不存在明火。
- 运输燃油或者存放燃油时，仅使用获得批准的油罐。
- 长期存放之前，请先排空燃油箱。请遵守当地法律关于何处处置燃油的规定。
- 长期存放之前，请先清洁产品。
- 存放产品之前请拆下火花塞线缆，以确保引擎不会意外启动。

维护安全须知



警告：请在使用本产品前阅读下面的警告说明。

- 停止引擎，确保切割刀片停止转动。进行维护之前，先拆下汽缸罩，并断开火花塞帽。
- 发动机排出的废气含有一氧化碳，这是一种极危险的无味有毒气体，可能导致死亡。切勿在室内或密闭空间中运行本产品。
- 引擎排出的废气温度很高，并可能带有火花。切勿在室内或易燃材料附近运行本产品。

- 未经制造商批准加装附件或改动产品可能导致严重的伤害或死亡。切勿改动本产品。必须使用原厂零件。
- 如未正确和定期地进行维护，会增加伤害风险和损坏风险。
- 只能进行本说明书所建议的维护工作。由经过批准的 Husqvarna 保养厂执行所有其他保养工作。

- 由经过批准的 Husqvarna 保养厂定期对产品进行保养。
- 更换已经损坏、磨损或破损的零件。

安装

简介



警告： 在安装本产品之前，您必须阅读并理解安全章节。



警告： 安装产品之前，先拆下火花塞中的火花塞电缆。

安装切割刀片

切割设备包括切割刀片和切割刀片防护罩。



警告： 使用防护手套。



警告： 务必使用建议用于切割刀片的切割刀片防护罩。请参阅附件 543RB 在第 35 页上。



警告： 切割刀片固定不当可致人受伤或死亡。

安装柔性驱动轴

1. 拆下轴联轴节上的螺丝。(图 28)
2. 将柔性驱动轴穿过线束处的线环。
3. 同时转动并推动柔性驱动轴以将其连接。
4. 拧紧 2 颗螺丝。
5. 将驱动轴套安装在离合器罩中。同时转动并推动驱动轴以将其连接。(图 29)
6. 确保锁定销返回到其初始位置。

连接油门线和停止开关导线

1. 打开壳盖。
2. 在壳盖内，将接自线束 (A) 的油门线和接自引擎的油门线 (B) 连接。(图 30)
3. 扣上壳盖。
4. 将停止开关导线连接到引擎的相关连接器中。(图 31)

安装环形手柄

1. 将环形手柄安装到轴上。(图 32)

2. 用螺母和螺丝固定环形手柄。不要完全拧紧。
3. 将手柄的位置调节至相应的工作位置，然后完全拧紧螺丝。

安装切割刀片防护罩

1. 用螺栓 (L) 将切割刀片防护罩 (A) 安装到驱动轴上。(图 33)

安装打草刀片或割草刀

1. 将驱动盘 (B) 安装在输出轴上。(图 34)
2. 转动输出轴，直至驱动盘 (B) 上的其中 1 个孔与齿轮箱上的相关孔对准。
3. 将锁定销 (C) 插入孔中以将轴锁定。
4. 将刀片 (D)、支撑凸缘 (G) 和支撑杯 (F) 放到输出轴上。
5. 安装螺母 (E)。在靠近刀片防护罩的位置握住扳手的轴。要拧紧螺母，必须按与旋转方向相反的方向转动扳手。将螺母拧紧至扭矩为 35-50 Nm (3.5-5 kpm)。

注意： 这是左旋螺纹。

安装打草头

1. 将驱动盘 (B) 和支撑凸缘 (G) 安装在输出轴上。(图 35)
2. 转动输出轴，直至驱动盘上的孔与齿轮箱上的孔对准。
3. 将锁定销 (C) 插入孔中以将轴锁定。
4. 安装时逆时针转动打草头 (H)。(图 36)
5. 要进行拆卸，请按照相反的顺序进行操作。

安装 2 齿刀片至护板中

1. 将刀片安装在运输护板中。(图 37)

安装肩带

1. 将肩带环穿过挂钩 (A)，并用螺栓将其固定。
2. 将肩带的挂钩 (B) 连接到框架上的环 (C) 上。(图 38)

调节肩带

1. 停止引擎。
2. 穿上背带。
3. 调节肩带，使产品重量均匀分布在双肩。

操作

引言



警告： 在使用本产品之前，您必须阅读并理解安全章节。

操作产品之前

- 检查工作区域，确保您了解地形、地面坡度，以及是否有石子、树枝和沟渠等障碍物。
- 对产品进行全面检查。
- 按照本手册中的说明进行安全检查、维护和保养。
- 确保所有护盖、防护罩、手柄和切割设备均已正确固定且完好无损。
- 确保打草刀片齿部底部或刀片中心孔附近没有裂纹。更换损坏的锯片。

(图 39)

- 检查支撑凸缘是否有裂纹。更换损坏的支撑凸缘。

(图 40)

- 确保锁紧螺母无法用手拆下。如果可以用手拆下，则它将无法充分锁紧切割刀片，您必须将其更换。

(图 41)

- 检查刀片防护罩是否存在损坏或裂纹。更换被撞坏或者有裂纹的刀片防护罩。

(图 42)

- 检查打草头和切割刀片防护罩是否存在损坏和裂纹。更换被撞坏或者有裂纹的打草头和切割刀片防护罩。

(图 43)

燃油

使用燃油



小心： 本产品配备一个二冲程引擎。使用汽油和二冲程引擎机油组成的混合燃油。确保在混合燃油中使用正确数量的机油。不正确的汽油和机油比例可能导致引擎损坏。

Husqvarna 烷基化燃油



小心： 切勿使用辛烷值低于 90 RON (87 AKI) 的汽油。这可能导致损坏产品。



小心： 切勿使用乙醇浓度超过 10% (E10) 的汽油。这可能导致损坏产品。



小心： 切勿使用含铅汽油。这可能导致损坏产品。

我们建议使用 Husqvarna 烷基化燃油，以获得最佳性能。与普通燃油相比，该燃油可减少有害气体排放。这可保持引擎清洁，延长引擎使用寿命。有些地区的市场可能购买不到 Husqvarna 烷基化燃油。

- 务必使用辛烷标号最低为 90 RON (87 AKI) 且乙醇浓度低于 10% (E10) 的新型无铅汽油。
- 如果频繁地持续高速使用产品，请使用辛烷值更高的汽油。
- 务必使用优质的无铅汽油/机油混合物。

二冲程机油

- 为获得最佳的效果和性能，请使用专为我们的二冲程引擎开发的 Husqvarna 二冲程机油。
- 如果无法获得 Husqvarna 的二冲程机油，请选用其它气冷式引擎专用的高品质二冲程机油。选择机油时，请与您的代理商联络。
- 切勿使用水冷式舷外引擎专用的二冲程机油，即所谓的舷外机油。
- 切勿使用四冲程引擎专用的机油。

汽油 (升)	二冲程机油, 公升
	2% (50:1)
5	0.10
10	0.20
15	0.30
20	0.40

配制混合燃油

注意： 混合燃油时，务必使用清洁的油罐。

注意： 切勿配制超过 30 天用量的混合燃油。

1. 加入一半汽油。
2. 加入全部机油。
3. 摇晃混合燃油，以混合均匀。
4. 加入剩余的汽油。
5. 摇晃混合燃油，以混合均匀。
6. 加注燃油箱。

添加燃油

- 务必使用带防溢阀的油罐。
- 如果油罐上面有一些燃油，请清除多余的燃油，使油罐保持干燥。
- 确保燃油箱盖附近位置保持清洁。
- 将混合燃油添加到燃油箱中之前，先摇晃油罐。

工作位置

- 用双手握住产品。
- 将产品保持在身体右侧。
- 将切割锯片保持在腰部以下。
- 务必将产品固定到背带。
- 确保身体各部位远离高温表面。
- 确保身体各部位远离切割刀片。

启动引擎



警告：引擎启动时，请保持 15 m 的安全距离。存在切割刀片开始旋转风险。

1. 将停止开关设置到开始位置。(图 22)
2. 按动注油泵球囊，直至燃油开始注入球囊中。(图 44)
3. 将风门设在阻塞位置。(图 45)
4. 用左手将产品机体按在地上。切勿踩踏产品。(图 46)
5. 缓缓拉动启动绳把手，直至感觉到一些阻力，然后用拉力拉动启动绳把手。



警告：切勿将启动绳绕在手上。

6. 继续拉动启动绳把手，直到引擎启动。



小心：切勿完全拉出启动绳。当启动绳完全拉出时，切勿放开它。缓缓释放启动绳。存在产品损坏风险。

7. 当引擎启动后，将风门置于运行位置，并且全开油门。油门扳机会自动脱离启动设置。
8. 确保引擎平稳运行。



警告：确保身体各部位远离火花塞帽。存在烫伤风险。切勿使用火花塞帽损坏的产品。有发生电击的危险。

(图 47)

注意：向前按操纵杆，以便将油门控制设在怠速位置。(图 48)

停止引擎

- 将停止开关移至停止位置。(图 22)

甩刀

甩刀是产品突然用力向一侧移动的现象。当打草刀片击中无法被切割的物体或卡在其上时，就会出现甩刀现象。甩刀可能将产品或操作员弹向任何方向。存在伤害操作员和旁观者的风险。

在被切割物视野不佳的区域，这种风险会有所增加。

切勿用刀片的黑色区域进行切割。刀片的速度和移动可能会导致甩刀现象。被切割的茎秆越粗，风险就越大。

(图 49)

使用打草刀片清理草坪



小心：切勿用打草刀片和割草刀切割木质材料。打草刀片和割草刀仅可用于切割长草或厚草。

- 将产品从一侧移到另一侧。
- 切割时，从右到左移动开始移动。再次切割前，将产品移到右侧。
- 用打草刀片的左侧进行切割。(图 50)
- 向左倾斜打草刀片，使草倒成一行。这样更容易收集割下的草。
- 双脚分开，保持站稳。
- 每次向右移动时向前移动，确保再次切割前再次站稳。
- 稍稍用力将支撑杯贴到地上，确保打草刀片不会撞地。
- 请遵循这些说明进行操作，以降低切割材料缠绕打草刀片的风险：
 - a) 全开油门。
 - b) 从左向右移动产品时，切勿让打草刀片穿过已切割物。
- 收集切割物前，先停止引擎，并将本产品从背带取下。将产品放到地上。

使用打草头修剪草坪

修剪草坪

1. 稳定控制打草头，使其与地面呈一定角度且恰好离地。切勿将打草绳推入草坪中。(图 51)
2. 按 10-12 cm / 4-4.75 in 减少打草绳的长度。
3. 降低引擎速度，以降低伤及植物的风险。
4. 切割物体附近的草坪时，请用 80 % 的油门。(图 52)

用打草刀片清理草坪

1. 打草刀片和割草刀不得用于切割木质茎。
2. 打草刀片适用于清理各类高草或杂草。
3. 通过侧向摆动方式进行割草，其中从右向左移动是清理行程，从左向右移动是回程。使用刀片的左侧（8 点钟到 12 点钟位置之间）进行切割。
4. 清理草坪时，如果刀片向左倾斜，则草会聚拢成一行，用耙子等很容易收集。
5. 尝试有节奏地作业。双脚分开站稳。回程后向前移动，然后重新站稳。
6. 将支撑杯稍稍靠在地面上。它用于防止刀片撞击地面。
7. 始终在全开油门状态下进行作业并在回程期间避开之前切割下的材料，以降低材料缠绕刀片的风险。
8. 停止引擎运行，解开背带并将机器放在地上，然后再收集切割的材料。

割草

1. 确保割草时打草绳与地面保持平行。(图 53)

- 切勿将打草头推向地面。这可能导致损坏产品。
- 割草时将产品从一侧移到另一侧。使用全速。(图 54)

吹扫草屑

转动的打草绳所产生的空气流可用于清理从某一区域切割下的草屑。

- 使打草头及打草绳与地面保持平行并且高于地面。
- 全开油门。
- 将打草头从一侧移动到另一侧并吹扫草屑。



警告：每次安装新的打草绳时请清洁打草头护罩，以防止把手出现不平衡和产生振动的问题。此外，请检查打草头的其他零部件，并根据需要进行清洁。

更换打草绳

请参考此操作手册的最后一页。

维护

引言



警告：进行维护之前，您必须阅读并理解安全须知章节。

要对本产品执行任何保养和维修工作，都需要经过特殊培训。我们承诺提供专业的维修和保养。如果您的经销商不是保养代理商，请联系该经销商以获取离您最近的保养代理商的信息。

维护时间表

维护	每天	每周	每月
清洁外部表面。	X		
检查背带是否损坏。	X		
检查油门扳机锁和油门扳机，请参阅 <i>检查油门扳机锁在第 26 页上</i> 。	X		
确保切割刀片在怠速时不转动。	X		
检查停止开关，请参阅 <i>检查停止开关在第 26 页上</i> 。	X		
检查切割刀片防护罩是否存在损坏和裂纹。	X		
确保打草刀片与中心对准，并确保打草刀片保持锋利，刀片或中心孔完好损坏。	X		
检查打草头是否存在损坏和裂纹。如有损坏，请予以更换。	X		
检查手柄和手柄杆是否损坏，确保已将其正确固定。	X		
对于带支撑杯的切割刀片，请完全拧紧锁定螺丝。	X		
对于带锁紧螺母的的切割刀片，请完全拧紧锁紧螺母。	X		
检查运输护板是否损坏，确保已将其正确固定。	X		
检查引擎、燃油箱和燃油管是否泄漏。	X		
清洁空气滤清器。必要时进行更换。	X		
拧紧螺母和螺丝。	X		
检查燃油滤清器上是否有污物，油管是否有裂痕和其它破损现象。必要时进行更换。	X		
检查所有线缆和接头。	X		
检查启动器和启动绳是否损坏。		X	
检查减震装置是否存在损坏和裂纹。		X	
检查火花塞，请参阅 <i>检查火花塞在第 33 页上</i> 。		X	

维护	每天	每周	每月
清洗冷却系统。		X	
确保向斜齿轮加注润滑脂至 $\frac{3}{4}$ 满。		X	
清洁化油器外表面及其周围区域。		X	
检查离合器、离合器弹簧及离合杯的磨损状况。必要时进行更换。			X
更换火花塞。			X
润滑驱动轴。 ⁴			X

清洁冷却系统



小心：冷却系统脏污或堵塞会使产品变得过热，进而导致产品损坏。

冷却系统包括：

- 汽缸 (A) 上的散热片。
- 进气口 (B)。

(图 55)

- 确保冷却系统洁净且未堵塞。
- 用刷子每周清洁一次冷却系统，必要时应更频繁地进行清洁。

调整怠速

Husqvarna 产品按照有助于降低有害气体排放的规范制造。

- 在调整怠速之前，确保空气滤清器清洁并且装上空气滤清器外壳。
- 通过用“T”标记标识的怠速调节螺钉 T 调节怠速。



警告：如果调整怠速时切割刀片不停转动，请咨询您的保养代理商。在未正确调整或修理产品之前，请勿使用产品。

- 当引擎在所有位置都能平稳运行时，表明怠速正常。怠速必须低于切割刀片开始转动时对应的转速。
1. 顺时针转动怠速调节螺钉，直至切割刀片开始旋转。(图 56)
 2. 逆时针转动怠速调节螺钉，直至切割刀片停止旋转。

注意：有关建议的怠速，请参阅 *技术参数* 在第 34 页上。

清洁空气滤清器



小心：务必更换损坏的空气滤清器。

如果空气滤清器的使用时间较长，则可能无法对其进行彻底清洁。请定期将空气滤清器更换为新的。

⁴ 间隔为 6 个月。

1. 拆下空气滤清器外壳，然后取出空气滤清器。(图 57)
2. 用压缩空气清洁空气滤清器。
3. 清洁滤清器罩的内表面。使用压缩空气或刷子。
4. 确保滤清器干燥。

在海绵空气滤清器上涂抹机油



小心：务必使用 Husqvarna 专用空气滤清器机油。切勿使用其他类型的机油。



警告：戴上保护手套。空气滤清器机油对皮肤有刺激性。

1. 将海绵空气滤清器放入塑料袋中。
2. 将机油加入塑料袋中。
3. 搓揉塑料袋，确保机油均匀渗入海绵空气滤清器中。
4. 在塑料袋中将海绵空气滤清器中多余的机油挤出。(图 58)

燃油滤清器

如果引擎在运行时燃油供给不足，请确保燃油箱盖和燃油滤清器 (A) 中的气孔干净清洁。(图 59)

斜齿轮

斜齿轮在出厂时已经注入 $\frac{3}{4}$ 满的润滑脂。使用产品之前，确保润滑脂液位未变。如果需要加满，请使用 Husqvarna 提供的专用润滑脂。切勿更换斜齿轮中的润滑脂。请让保养人员修理斜齿轮。

(图 60)

润滑柔性驱动轴

1. 向上拉动旋钮，将驱动轴套从离合器罩中拆下。(图 61)
 - a) 晃动驱动轴，将其从驱动轴套中拉出。(图 62)
2. 润滑驱动轴。(图 63)

3. 同时推动并转动驱动轴，以将其推回到驱动轴套中。确保驱动轴从驱动轴套的边缘伸出约 10 mm / 0.40 in。(图 64)
4. 将驱动轴套中的孔与离合器罩上的旋钮对准。(图 65)
5. 同时推动并转动驱动轴以将其连接。

安装和拆卸锁紧螺母



警告： 停止引擎，使用保护手套，并小心切割片的锋利刀刃。

锁紧螺母用于安装某些类型的切割刀片。锁紧螺母具有左旋螺纹。

- 安装时，按照与切割刀片转动方向相反的方向拧紧锁紧螺母。
- 要拆下锁紧螺母，请按照与切割刀片转动方向相同的方向松开锁紧螺母。
- 要松开和拧紧锁紧螺母，请使用带长轴的套筒扳手。图中箭头显示了可以操作套筒扳手的区域。(图 66)



警告： 松开和拧紧锁紧螺母时，存在刀片造成伤害的风险。当您这样操作时务必确保刀片防护罩对手进行保护。

注意： 确保您无法用手转动锁紧螺母。如果尼龙衬套没有最小 1.5 Nm 的阻力，请更换螺母。锁紧螺母安装约 10 次后必须进行更换。

检查火花塞



小心： 务必使用建议的火花塞类型。火花塞类型不正确可能导致产品损坏。

- 如果引擎动力不足，请检查火花塞是否不容易启动或者怠速时是否运行不正确。
- 为降低在火花塞电极上出现多余物质的风险，请遵循这些说明：
 - a) 确保已正确调节怠速。
 - b) 确保混合燃油正确。
 - c) 确保空气滤清器清洁。
- 如果火花塞脏污，请进行清洁并确保电极间隙正确，请参阅 *技术参数* 在 *第 34 页* 上。(图 67)
- 必要时请更换火花塞。

修磨割草刀和打草刀片



警告： 停止引擎。使用防护手套。

- 要正确修磨割草刀或打草刀片，请参阅切割刀片随附的说明。
- 均匀地修磨所有刀刃以保持均衡。
- 使用单纹扁锉。(图 68)



警告： 务必丢弃损坏的刀片。切勿试图将弯曲或扭曲的刀片掰直后再次使用。

故障排除

引擎不启动

检查	可能原因	程序
停止开关	停止开关处于停止位置。	由经过批准的保养厂更换停止开关。
燃油箱	燃油类型不正确。	排空燃油箱，并且用正确的燃油加注。
火花塞	火花塞脏污或受潮。	确保火花塞干燥清洁。
	火花塞电极间隙不正确。	清洁火花塞。确保电极间隙正确。确保火花塞具有抑制剂。
		正确的跳火间距请参考技术资料。
火花塞较松。	拧紧火花塞。	

引擎启动但是再次停止

检查	可能原因	程序
燃油箱	燃油类型不正确。	排空燃油箱，并且加注正确的燃油。
空气滤清器	空气滤清器堵塞。	清洁空气滤清器。

运输及存放

- 在运输或存放之前，先让产品冷却下来。
- 长期存放之前，先拆下火花塞帽。
- 运输期间请固定好产品。确保产品不会移动。
- 运输和存放期间，确保不存在燃油泄漏，产生油气、火花或明火的风险。
- 运输和存放期间，请安装好运输护板。
- 长期存放之前，请先清洁产品并做好保养。

技术参数

技术资料

543RB	
引擎	
汽缸排量 (cm ³)	40.1
缸径 (mm)	40.5
行程 (mm)	31.1
空转速度 (rpm)	3000
建议的最大转速 (rpm)	12000
输出轴速度 (rpm)	9600
最大引擎输出，按照 ISO 8893 (kW/rpm)	1.5/8500
催化转换器消音器	无
点火系统	
火花塞	NGK CMR7H-10
跳火间距 (mm)	0.9-1.0
燃油和润滑系统	
燃油箱容量 (L)	0.75
重量	
不包括燃油、切割刀片和保护装置在内的重量 (kg)	9.0
声压级⁵	

⁵ 等效声压级的报告数据中具有 1 dB (A) 的典型统计离差 (标准偏差)。

	543RB
操作员耳旁的等效声压级根据 EN ISO 11806 和 ISO 22868 测得，单位为 dB(A)，最小值/最大值：	96
振级⁶	
手柄的等效振动级 ($a_{hv,eq}$) 根据 EN ISO 11806 和 ISO 22867 测量得出，单位为 m/s^2 ：	
配有打草头，前/后	4.0/2.7

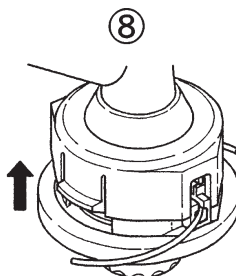
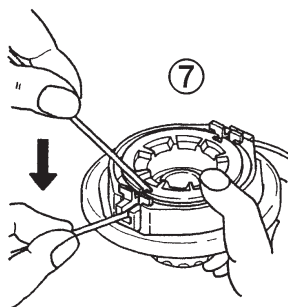
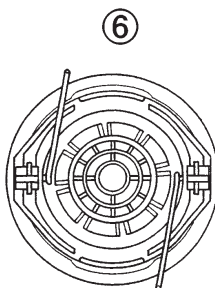
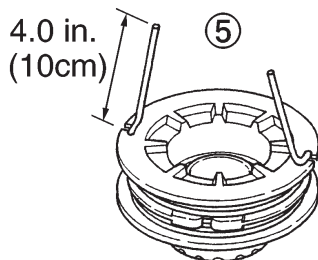
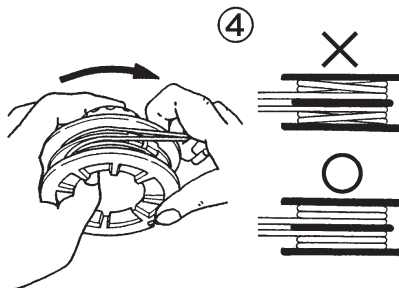
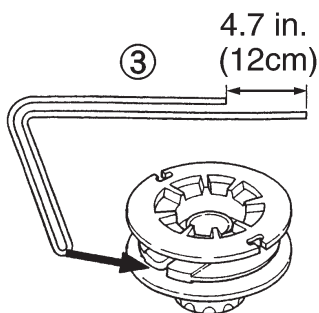
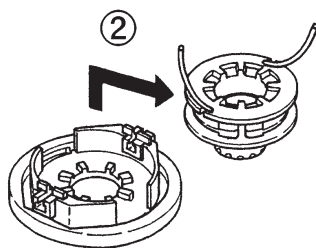
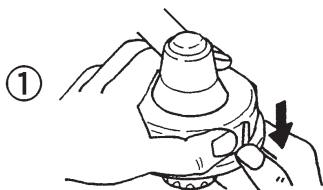
附件

附件 543RB

经批准使用的附件	附件类型	切割刀片防护罩，货号
打草刀片/割草刀	Multi 300-3 (Ø 300 , 3 齿)	588 55 02-01
	Multi 255-3 (Ø 255 , 3 齿)	
	Multi 275-4 (Ø 275 , 4 齿)	
	Grass 255-4 (Ø 255 , 4 齿)	
打草头	PT104	
支撑杯	固定	

⁶ 等效振级的报告数据中具有 $1 m/s^2$ 的典型统计离差 (标准偏差)。

PT104





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Original instructions
原始说明

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