

STIHL

STIHL MH 600

Gebrauchsanleitung
Instruction Manual
Manual de instrucciones
Uputa za uporabu

Návod k použití
Instruções de serviço
Instrukcja użytkowania
Uputstvo za upotrebu



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STIHL

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Translation of Original Instruction Manual

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1 Introduction

Dear Customer,

Thank you for choosing STIHL. We develop and manufacture our quality products to meet our customers' requirements. The products are designed for reliability even under extreme conditions.

STIHL also stands for premium service quality. Our dealers guarantee competent advice and instruction as well as comprehensive service support.

STIHL expressly commit themselves to a sustainable and responsible handling of natural resources. This user manual is intended to help you use your STIHL product safely and in an environmentally friendly manner over a long service life.

We thank you for your confidence in us and hope you will enjoy working with your STIHL product.



Dr. Nikolas Stihl

IMPORTANT! READ BEFORE USING AND KEEP IN A SAFE PLACE FOR REFERENCE.

2 Guide to Using this Manual

2.1 Applicable Documents

This instruction manual constitutes original manufacturer's instructions in the sense of EC Directive 2006/42/EC.

Local safety regulations apply.

- In addition to this instruction manual, read, understand and keep the following documents:
 - STIHL EHC 600 engine instruction manual

2.2 Warning Notices in Text

DANGER

This notice refers to risks which result in serious or fatal injury.

- Serious or fatal injuries can be avoided by taking the precautions mentioned.

WARNING

This notice refers to risks which **can** result in serious or fatal injury.

- Serious or fatal injuries can be avoided by taking the precautions mentioned.

NOTICE

This notice refers to risks which can result in damage to property.

- Damage to property can be avoided by taking the precautions mentioned.

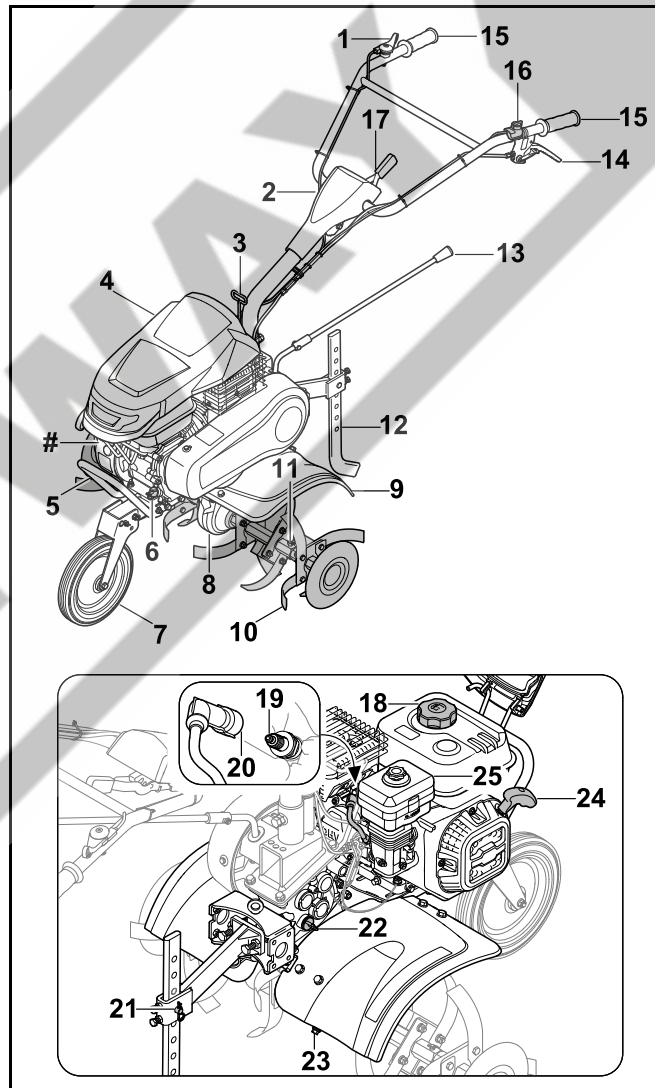
2.3 Symbols in Text



This symbol refers to a chapter in this instruction manual.

3 Overview

3.1 Tiller



1 Throttle lever

The throttle lever is used to adjust the engine speed.

2 Handlebar

The handlebar is used to hold, guide and transport the tiller.

3 Clutch lever for lateral adjustment

The clutch lever for lateral adjustment is used to adjust the handlebar laterally.

4 Cover

The cover protects the engine.

5 Transport handle

The transport handle is used to carry the tiller.

6 Engine oil cap

The engine oil cap seals the opening for adding engine oil.

7 Front wheel

The front wheel is used to transport the tiller.

8 Gearbox housing

The gearbox housing covers the gearbox.

9 Guard

The guard protects the user from high-velocity objects and from contact with the hoes.

10 Hoe

The hoe tills the ground.

11 Folding retainer

The folding retainer secures the hoe.

12 Blade spur

The blade spur is used to regulate the working speed and working depth.

13 Gear lever

The gear lever is used to set the gears.

14 Clutch lever for self-propulsion

The clutch lever for self-propulsion engages and disengages the drive shaft.

15 Handle

The handles are used to operate, hold and guide the tiller.

16 Main switch

The main switch is used to start and stop the engine.

17 Lever

The lever is used to set the handlebar height.

18 Fuel tank cap

The fuel tank cap seals the opening for adding petrol.

19 Spark plug

The spark plug ignites the fuel in the engine.

20 Spark plug socket

The spark plug socket connects the ignition lead to the spark plug.

21 Blade spur mounting

The blade spur mounting consists of a pin and retaining pin and secures the blade spur.

22 Gearbox oil cap

The gearbox oil cap seals the opening for adding gearbox oil.

23 Screw plug

The screw plug seals the opening for draining the gearbox oil.

24 Starter handle

The starter handle is used to start the engine.

25 Oil bath air filter

The oil bath air filter filters the air taken in by the engine.

Rating plate with machine number**3.2 Symbols**

The symbols can be on the tiller and have the following meaning:



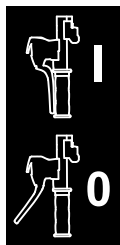
LWA Guaranteed sound power level in accordance with Directive 2000/14/EC in dB(A) for the purpose of comparing the sound emissions of products.



Do not dispose of the product with domestic waste.



Indicates the position of the main switch.



If the clutch lever for self-propulsion is pressed: self-propulsion is engaged.

If the clutch lever for self-propulsion is not pressed: self-propulsion is disengaged.

120R

Indicates the engaged gear.

4 Safety Precautions

4.1 Warning Symbols

The warning symbols on the tiller have the following meaning:



Follow the safety instructions and their measures.



Read, understand and keep the instruction manual.



Observe the safety instructions on high-velocity objects and their measures.



Maintain a safety distance.



Do not touch turning hoes.



Detach the spark plug socket during transport, storage, maintenance or repair.



Wear hearing protection.



Do not touch hot surfaces.



4.2 Intended Use

The STIHL MH 600 tiller is used to loosen and till soil, work in soil additives and make furrows.

The working width formed by the hoes must not exceed 780 mm.

⚠ WARNING

- Failure to use the tiller as intended may result in serious or fatal injury to people and damage to property.
 - ▶ Use the tiller as described in this instruction manual and in the engine instruction manual.

4.3 Requirements for the User

⚠ WARNING

- Uninstructed users cannot recognise or evaluate the dangers posed by the tiller. This may result in serious or fatal injury to the user or other people.



- ▶ Read, understand and keep the instruction manual.

- ▶ If passing on the tiller to another person: provide them with the tiller and engine instruction manuals also.
- ▶ Make sure that the user meets the following conditions:
 - The user is rested.
 - The user is physically, sensorily and mentally capable of operating the tiller and working with it. If the user is physically, sensorily or mentally impaired, the machine must only be used under supervision or following instruction by a responsible person.
 - The user can recognise and evaluate the dangers posed by the tiller.
 - The user is aware that they are responsible for accidents and damage.
 - The user is of legal age or the user is being trained under supervision in a profession in accordance with national regulations.
 - The user has received instruction from a STIHL specialist dealer or a competent person before using the tiller for the first time.
 - The user is not impaired by alcohol, medicines or drugs.

- ▶ If anything is unclear: consult a STIHL specialist dealer.

4.4 Clothing and Equipment

⚠ WARNING

- Long hair may be pulled into the tiller when working. This may result in serious injury to the user.
 - ▶ Tie back long hair to ensure that it cannot be pulled into the tiller.
- Objects may be thrown up at high velocity while working. This may result in injury to the user.
 - ▶ Wear close-fitting safety glasses. Suitable safety glasses are tested in accordance with EN 166 or national regulations and available commercially with the corresponding marking.
 - ▶ Wear long trousers made from resistant material.
- Noise is produced when working. Noise can damage the hearing.
 - ▶ Wear hearing protection.



- Dust may be stirred up while working. Breathing in dust may be harmful to health and cause allergic reactions.
 - ▶ If dust is stirred up: wear a dust mask.
- Unsuitable clothing may get caught in wood, brambles and in the tiller. This may result in serious injury to the user.
 - ▶ Wear close-fitting clothing.
 - ▶ Remove scarves and jewellery.
- The user may come into contact with the hoes when working. This may result in serious injury to the user.
 - ▶ Wear protective boots with steel caps.
 - ▶ Wear long trousers made from resistant material.

- The user may come into contact with the hoes during cleaning or maintenance. This may result in injury to the user.
 - ▶ Wear work gloves made from resistant material.
- Wearing unsuitable footwear may cause the user to slip. This may result in injury to the user.
 - ▶ Wear sturdy, closed-toed footwear with high-grip soles.

4.5 Work Area and Surroundings

⚠ WARNING

- Bystanding people, children and animals cannot recognise or evaluate the dangers posed by the tiller and high-velocity objects. This may result in serious injury to bystanding people, children and animals and damage to property.



- ▶ Keep bystanding people, children and animals out of the work area.

- ▶ Maintain a distance from objects.
- ▶ Do not leave the tiller unattended.
- ▶ Make sure that children cannot play with the tiller.
- Hot exhaust gases are emitted from the muffler when the engine is running. Hot exhaust gases may ignite easily inflammable materials and cause fires.
 - ▶ Keep the exhaust gas flow away from easily inflammable materials.

4.6 Safe Condition

4.6.1 Tiller

The tiller is in **safe condition** when the following conditions are met:

- The tiller is not damaged.
- The hoes or running wheels are installed in pairs.
- There is no petrol leaking from the tiller.

- The fuel tank cap is closed.
- There is no engine oil leaking from the tiller.
- The engine oil cap is closed.
- The oil bath air filter is sealed.
- There is no gearbox oil leaking from the gearbox housing.
- The gearbox oil cap is closed.
- The screw plug is closed.
- The tiller is clean.
- The controls are working and have not been modified.
- The hoes or running wheels are correctly attached.
- Genuine STIHL accessories for this tiller are attached.
- The accessories are correctly attached.

⚠ WARNING

- If not in **safe condition**, components may no longer operate correctly, safety devices may be disabled and fuel may leak. This may result in serious or fatal injury to people.
 - ▶ Use an undamaged tiller.
 - ▶ If there is petrol leaking from the tiller: do not use the tiller and consult a STIHL specialist dealer.
 - ▶ Close the fuel tank cap.
 - ▶ If there is engine oil leaking from the tiller: do not use the tiller and consult a STIHL specialist dealer.
 - ▶ Close the engine oil cap.
 - ▶ If there is gearbox oil leaking from the tiller: do not use the tiller and consult a STIHL specialist dealer.
 - ▶ Close the gearbox oil cap.
 - ▶ The screw plug is tightened securely.
 - ▶ If the tiller is dirty: clean the tiller.
 - ▶ Do not modify the tiller. Exception: attaching hoes or running wheels.
 - ▶ If the controls are not working: do not use the tiller.

- ▶ Attach genuine STIHL accessories for this tiller.
- ▶ Attach hoes and running wheels as described in this instruction manual.
- ▶ Attach accessories as described in this instruction manual or in the instruction manual for the accessories.
- ▶ Do not insert objects into the apertures in the tiller.
- ▶ Replace worn or damaged warning signs.
- ▶ If anything is unclear: consult a STIHL specialist dealer.

4.6.2 Rotor Blades

The blades are in a safe condition if the following points are observed:

- The blades are not damaged.
- The blades are not deformed.
- The blades are properly mounted.

WARNING

- The user can lose control of the cultivator if it is not in a safe condition. This can result in serious injuries.
 - ▶ Work with undamaged rotor blades.
 - ▶ If you have any queries: Contact your STIHL servicing dealer for assistance.

4.7 Fuel and Refueling

WARNING

- The fuel used for this tiller is petrol. Petrol is extremely inflammable. If petrol comes into contact with an open flame or hot objects, it may cause fires or explosions. This may result in serious or fatal injury to people and damage to property.
 - ▶ Protect petrol from heat and fire.
 - ▶ Do not spill petrol.
 - ▶ If petrol is spilled: wipe up the petrol with a cloth and wait until all parts of the tiller are dry before attempting to start the engine.

- ▶ Do not smoke.
- ▶ Do not refuel in the vicinity of flames.
- ▶ Before refilling the tank, stop the engine and allow it to cool.
- ▶ If the tank needs to be emptied: do this out of doors.
- ▶ Start the engine at least 3 m away from the refueling site.
- ▶ Never store the tiller with petrol in the tank inside a building.
- Breathing in petrol fumes may result in poisoning.
 - ▶ Do not breathe in petrol fumes.
 - ▶ Refuel in a well ventilated place.
- The tiller warms up while working. The petrol expands and overpressure may occur in the fuel tank. Petrol may gush out if the fuel tank cap is opened. The gushing petrol may ignite. This may result in serious injury to the user.
 - ▶ Allow the tiller to cool down before opening the fuel tank cap.
- Clothing that comes into contact with petrol is highly inflammable. This may result in serious or fatal injury to people and damage to property.
 - ▶ If clothing comes into contact with petrol: change clothing.
- Petrol poses a risk to the environment.
 - ▶ Do not spill fuel.
 - ▶ Dispose of petrol in accordance with regulations and in an environmentally acceptable way.
- If petrol comes in contact with the skin or eyes, this may cause irritation.
 - ▶ Avoid contact with petrol.
 - ▶ In the event of contact with the skin: wash the affected areas with plenty of soap and water.
 - ▶ In the event of contact with the eyes: rinse the eyes with plenty of water for at least 15 minutes and seek medical attention.

- Overflowed petrol may ignite. This may result in serious or fatal injury to people and damage to property.
 - ▶ Clean any surfaces contaminated with petrol.
 - ▶ Avoid attempts at starting until the petrol fumes have dispersed.
- The tiller's ignition system generates sparks. Sparks may escape and cause fires and explosions in highly inflammable or explosive environments. This may result in serious or fatal injury to people and damage to property.
 - ▶ Use the spark plugs described in the engine instruction manual.
 - ▶ Screw in the spark plug and tighten.
 - ▶ Press firmly on the spark plug socket.
- The tiller may be damaged if it is refueled with petrol that is not suitable for the engine.
 - ▶ Use fresh, good quality unleaded petrol.
 - ▶ Observe the specifications in the engine instruction manual.

4.8 Working

⚠ WARNING

- The user may lose control of the tiller if they do not start the engine correctly. This may result in serious injury to the user.
 - ▶ Start the engine as described in this instruction manual.
- In certain situations, the user may no longer be able to concentrate on their work. The user may lose control of the tiller, trip, fall and be seriously injured.
 - ▶ Work calmly and carefully.
 - ▶ If the light and visibility conditions are poor: do not use the tiller.
 - ▶ Operate the tiller alone.
 - ▶ Guide the hoes close to the ground.
 - ▶ Watch out for obstacles.
 - ▶ Do not tilt the tiller.

- ▶ If working on stony or hard ground: do not work at full throttle.
- ▶ Work standing on the ground and maintain balance.
- ▶ If signs of fatigue occur: take a break.
- ▶ If working on a slope: work across the slope.
- ▶ Do not work on slopes with an inclination greater than 15° (26.8%).
- Exhaust gases are produced when the engine is running. Breathing in exhaust gases may result in poisoning.
 - ▶ Do not breathe in exhaust gases.
 - ▶ Use the tiller in a well ventilated place.
 - ▶ If nausea, headaches, vision problems, hearing problems or dizziness occur: stop working and consult a doctor.
- If the user is wearing hearing protection and the engine is running, their perception and assessment of noise may be limited.
 - ▶ Work calmly and carefully.
- The turning hoes may cut the user. This may result in serious injury to the user.
 - ▶ Do not touch turning hoes.



- The tiller may be damaged if the hoes are blocked by an object and throttle is applied.
 - ▶ Stop the engine. Only then remove the object.
- If the tiller changes or starts to behave differently when working, it may not be in safe condition. This may result in serious injury to people and damage to property.
 - ▶ Stop working and consult a STIHL specialist dealer.
- The tiller may cause vibrations when working.
 - ▶ Wear gloves.
 - ▶ Take breaks.
 - ▶ If signs of a circulatory disturbance occur: consult a doctor.

- The hoes continue to turn for a short time when the clutch lever is released. This may result in serious injury to people.
 - ▶ Wait until the hoes are no longer turning.

⚠ DANGER

- If working near live wires, the hoes may come into contact with the live wires and damage them. This may result in serious or fatal injury to the user.
 - ▶ Do not work near live wires.

4.9 Transporting

⚠ WARNING

- The gearbox housing may become hot when working. This may result in the user burning themselves.
 - ▶ Do not touch the hot gearbox housing.
- The tiller may tip over or move during transport. This may result in injury to people and damage to property.
 - ▶ Stop the engine.



- ▶ Detach the spark plug socket.

- ▶ Secure the tiller with lashing straps, belts or a net so it cannot tip over and move.
- The muffler and engine may be hot after the engine has been running. This may result in the user burning themselves.
 - ▶ Tilt and push the tiller towards the user.
- The tiller is heavy. Attempting to carry the tiller without assistance may result in injury to the user.
 - ▶ Wear gloves.
 - ▶ The tiller must be carried by two people.

4.10 Storing

⚠ WARNING

- Children are not aware of and cannot assess the dangers of a cultivator and can be seriously injured.
 - ▶ Shut off the engine.
 - ▶ Store the cultivator out of the reach of children.
- Dampness can corrode the electrical contacts on the cultivator and metal components. This can damage the cultivator.
 - ▶ Store your cultivator in a clean and dry condition.

4.11 Cleaning, Maintenance and Repair

⚠ WARNING

- The hoes may unintentionally start to rotate if the engine is running during cleaning, maintenance or repair. This may result in serious injury to people and damage to property.
 - ▶ Stop the engine.
 - ▶ Detach the spark plug socket.



- The muffler and engine may be hot after the engine has been running. This may result in people burning themselves.
 - ▶ Wait until the muffler and engine have cooled down.
- The gearbox housing may become hot when working. This may result in the user burning themselves.
 - ▶ Do not touch the hot gearbox housing.
- Abrasive cleaning agents, using a water jet for cleaning or sharp objects may result in damage to the tiller or hoes. If the tiller or hoes are not cleaned correctly, components may no longer operate correctly and safety devices may be disabled. This may result in serious injury to people.
 - ▶ Clean the tiller and hoes as described in this instruction manual.
- If the tiller or hoes are not maintained or repaired correctly, components may no longer operate correctly and safety devices may be disabled. This may result in serious or fatal injury to people.
 - ▶ Do not maintain or repair the tiller or hoes yourself.
 - ▶ If the tiller or hoes need to be maintained or repaired: consult a STIHL specialist dealer.
- The user may cut themselves on sharp cutting edges during hoe cleaning. This may result in injury to the user.
 - ▶ Wear work gloves made from resistant material.

5 Preparing Cultivator for Operation

5.1 Preparing the Tiller for Operation

The following steps must be performed before commencing work:

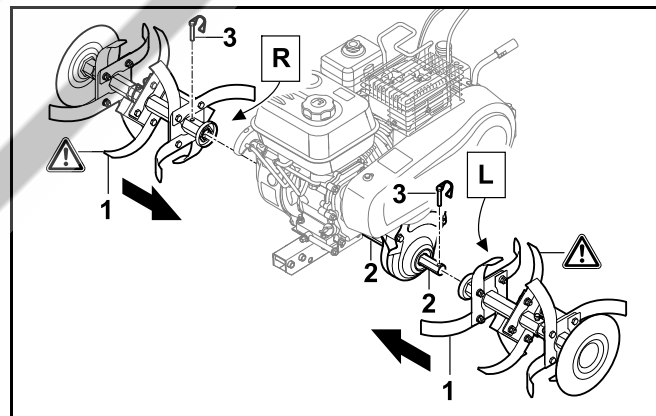
- ▶ Make sure that the following components are in safe condition:
 - Tiller, 4.6.1.
 - Hoes, 4.6.2.
- ▶ Clean the tiller, 15.1.
- ▶ Attach the hoes, 6.1.1.

- ▶ Attach the blade spur, 6.2.
- ▶ Attach the front wheel, 6.3.
- ▶ Attach the handlebar, 6.4.
- ▶ Attach the transport handle, 6.5
- ▶ Attach the guard and covers, 6.6.
- ▶ Attach the gear lever, 6.7.
- ▶ Add gearbox oil, 6.8.
- ▶ Check the gearbox oil level, 16.3.
- ▶ Add engine oil, 6.9.
- ▶ Fill the oil bath air filter, 6.10.
- ▶ Refuel the tiller, 7.1.
- ▶ Adjust the handlebar for the user, 8.
- ▶ Check the controls, 10.1.
- ▶ If the steps cannot be performed: do not use the tiller and consult a STIHL specialist dealer.

6 Assembling the Cultivator

6.1 Fitting and Removing the Blades

6.1.1 Attaching the Hoes



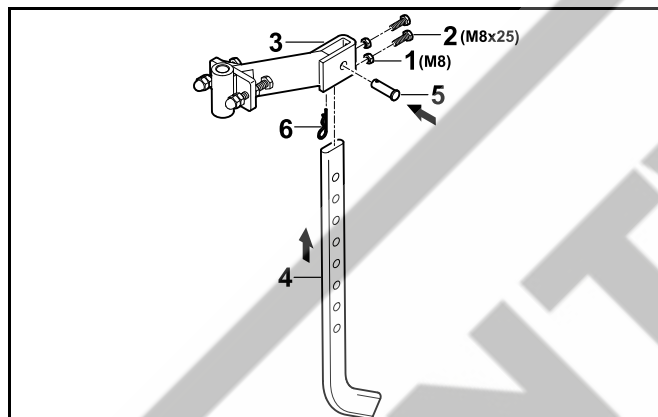
- ▶ Push hoes (1) onto drive shaft (2) so the bores align.

- ▶ Push folding retainers (3) through the bores in drive shaft (2) and close the securing clips. Hoes (1) are secured.

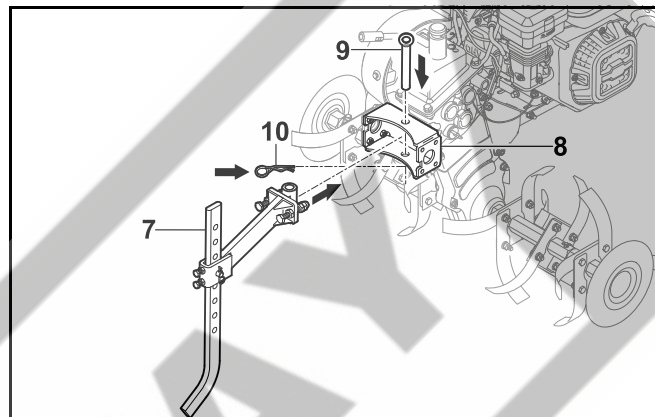
6.1.2 Removing the Hoes

- ▶ Stop the engine.
- ▶ Pull out the folding retainers.
- ▶ Remove the hoes.
- ▶ Push the folding retainers through the bores in the drive shaft. The folding retainers are kept in place.

6.2 Attaching the Blade Spur

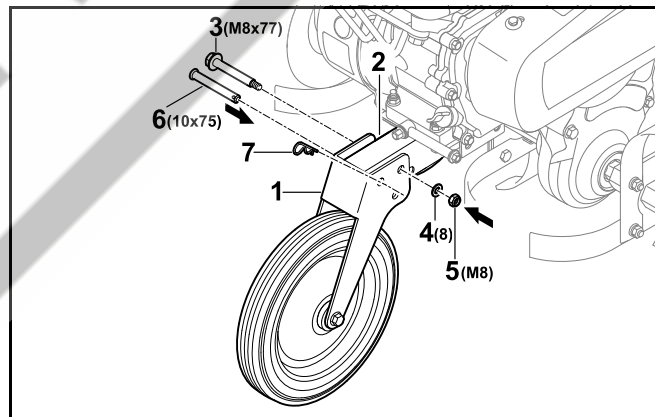


- ▶ Screw nuts (1) onto bolts (2) and screw into the bores in adapter (3).
- ▶ Fit blade spur (4) into adapter (3) from below so the bores on adapter (3) align with the lowermost bore on blade spur (4).
- ▶ Insert pin (5).
- ▶ Push retaining pin (6) through the bore in pin (5).



- ▶ Insert the adapter with attached blade spur (7) into mount (8) on the tiller.
- ▶ Insert pin (9).
- ▶ Push retaining pin (10) through the bore in pin (9). The blade spur is secured.

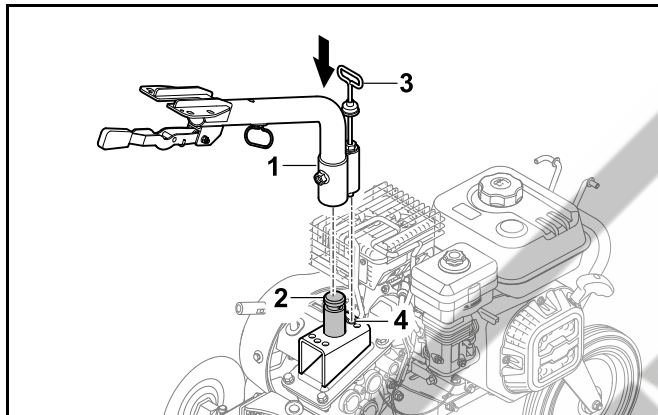
6.3 Attaching the Front Wheel



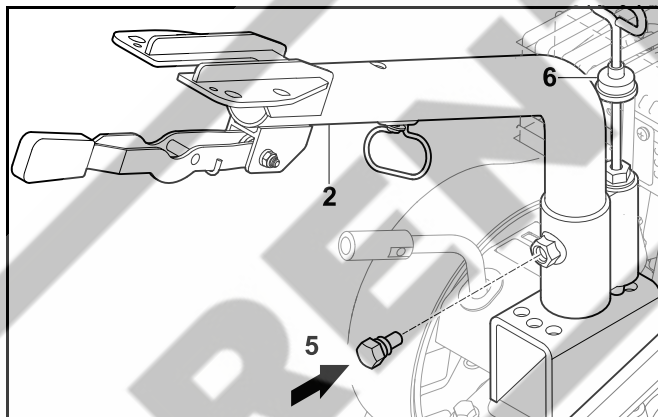
- ▶ Slide front wheel (1) onto frame (2) so the bores align.
- ▶ Insert bolt (3) into the rear bore.
- ▶ Place washer (4) on bolt (3).
- ▶ Screw on nut (5) and tighten.

- Insert pin (6) through the front bore.
- Push retaining pin (7) through the bore in pin (6).
Pin (6) is secured and front wheel (1) is locked in position.
The front wheel must not be dismantled again.

6.4 Attaching the Handlebar

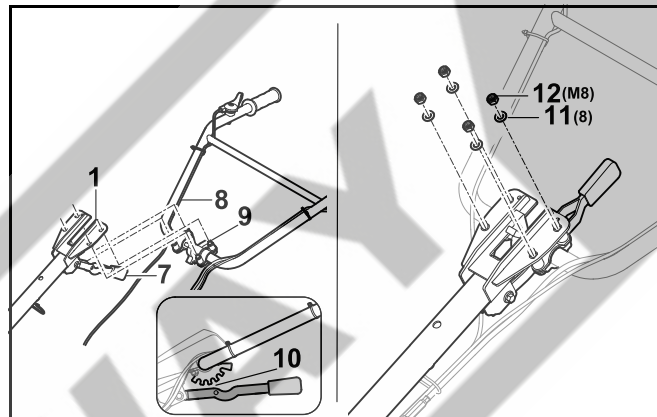


- Fit lower handlebar (1) onto mount (2) and align locating lug (3) with centre position (4).



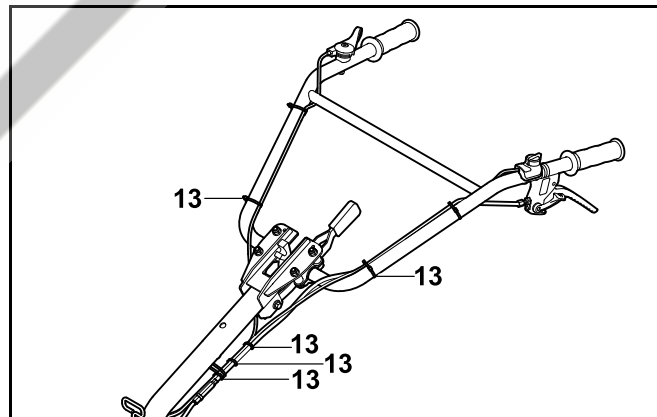
- Screw in screw (5).
Lower handlebar (1) is locked in place.

- Push anti-dust protection (6) downwards so that locating lug is covered.

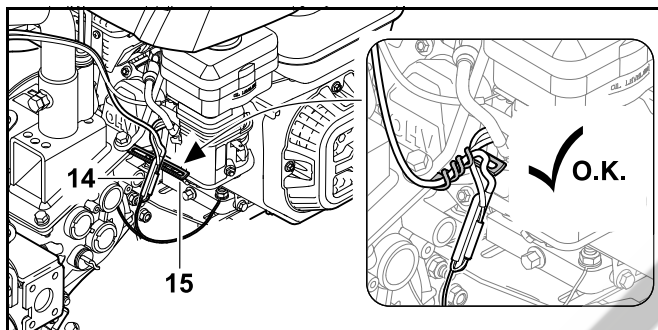


- Press lever (7) downwards and hold.
- Insert upper handlebar (8) through lower handlebar (1) from below using bolts (9).
- Release lever (7) and allow upper handlebar (8) to engage at centre detent (10).
- Attach upper handlebar (8) with washers (11) and nuts (12).
- Tighten nuts (12) to 20 Nm to 25 Nm.
Upper handlebar (8) is locked in place.

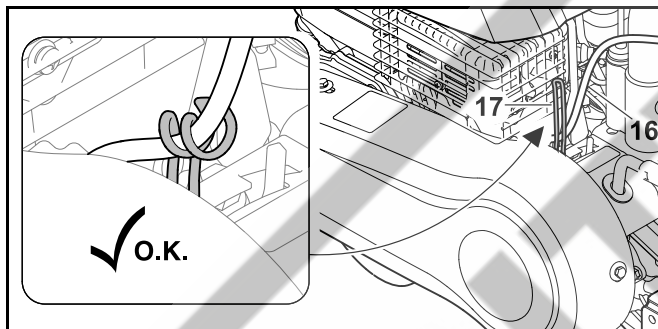
The handlebar must not be dismantled again.



- Fasten the cables to the handlebar at regular intervals using cable ties (13).

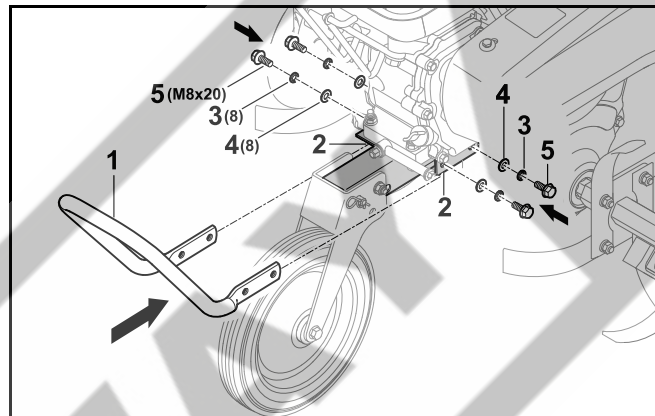


- Secure cables (14) by bending the cable clip (15) on the tiller.



- Secure cables (16) by bending the cable clip (17) on the tiller.

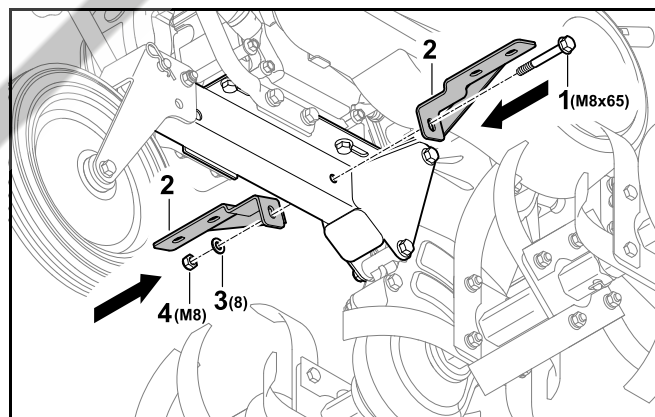
6.5 Attaching the Transport Handle



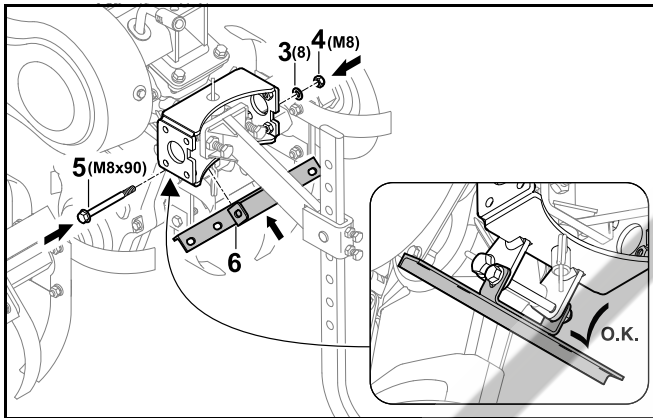
- Hold transport handle (1) against console (2) so the bores align.
- Fit spring washers (3) and washers (4) on bolts (5).
- Insert bolts (5) together with spring washers (3) and washers (4).
- Tighten bolts (5) to 22 Nm to 28 Nm.
Transport handle (1) is locked in place.

6.6 Attaching the Guard and Covers

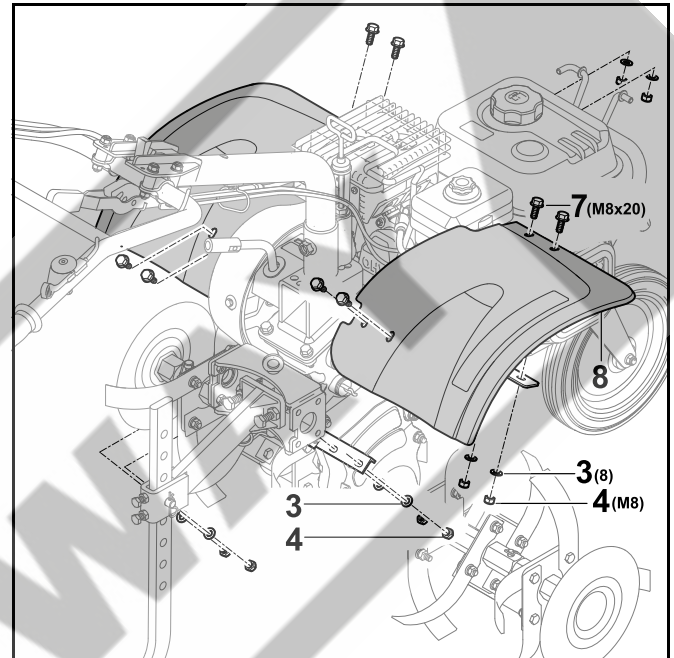
6.6.1 Attaching the Guard



- ▶ Insert bolt (1) through holders (2), aligning the bores.
- ▶ Place washer (3) on bolt (1).
- ▶ Screw on nut (4) and tighten.

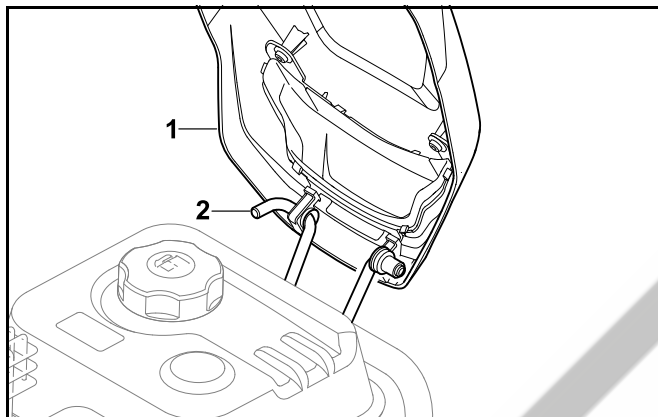


- ▶ Insert bolt (5) through holder (6), aligning the bores.
- ▶ Place washer (3) on bolt (5).
- ▶ Screw on nut (4) and tighten.

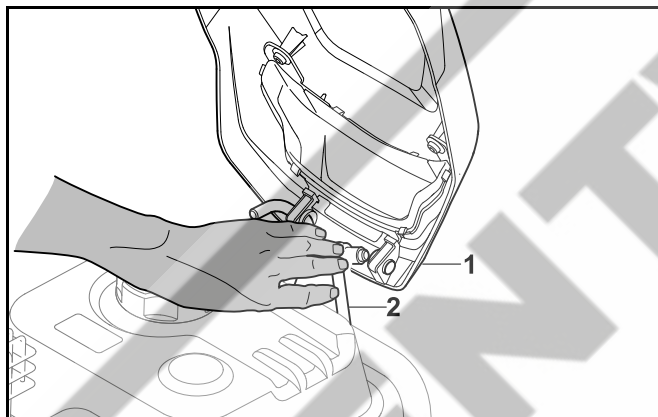


- ▶ Insert bolts (7) through guard plate (8).
- ▶ Place washers (3) on bolts (7).
- ▶ Screw on nuts (4) and tighten.

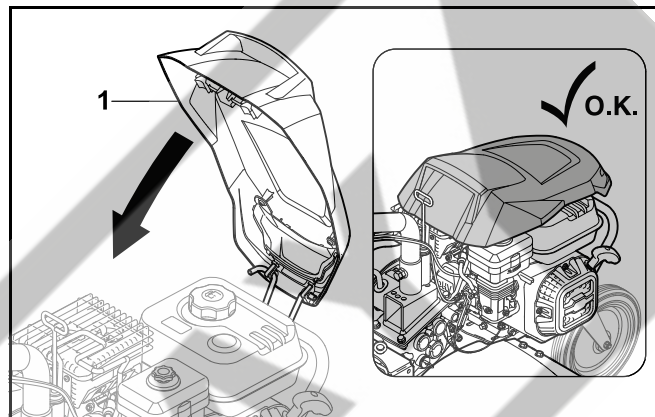
6.6.2 Attaching the Covers



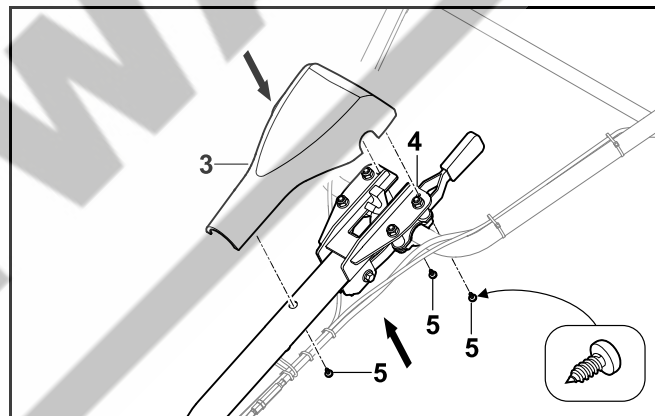
- Hook cover (1) onto bracket (2).



- Push bracket (2) inwards so that cover (1) can be attached.

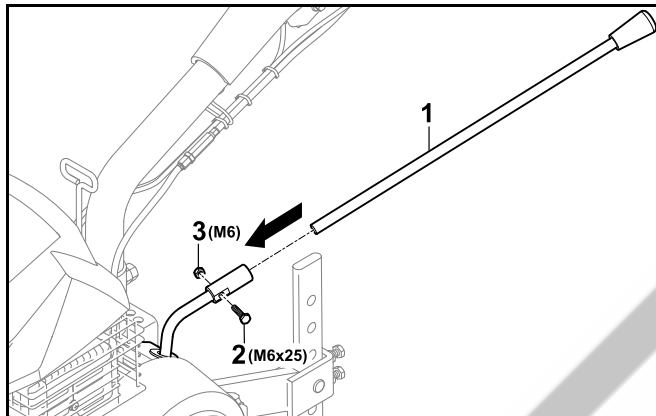


- Fold cover (1) downwards so that it engages.



- Place cover (3) on the handlebar (4).
- Screw in screws (5).

6.7 Attaching the Gear Lever



- ▶ Slide gear lever (3) onto the mount so the bores align.
- ▶ Insert bolt (2).
- ▶ Screw on nut (1) and tighten.

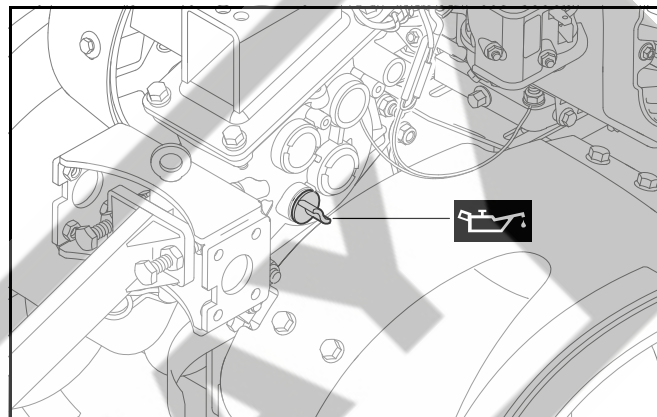
6.8 Topping Up the Gearbox Oil

The gearbox oil lubricates and cools the tiller gearbox.

NOTICE

The tiller does not contain any gearbox oil on delivery. Starting the engine with no or too little gearbox oil may damage the tiller.

- ▶ Check the gearbox oil level before starting and if necessary top up.
-
- ▶ Stop the engine.
 - ▶ Place the tiller on a level surface.
 - ▶ Clean the area around the gearbox oil cap with a damp cloth.



- ▶ Turn the gearbox oil cap anti-clockwise until it can be removed.
- ▶ Remove the gearbox oil cap.
- ▶ Add 1.25 l of SAE10W30 gearbox oil without spilling any.
- ▶ Place the gearbox oil cap on the filler neck.
- ▶ Turn the gearbox oil cap clockwise and hand tighten. The filler neck is sealed.

6.9 Topping Up the Engine Oil

The engine oil lubricates and cools the engine.

The engine oil specification and capacity can be found in the engine instruction manual.

NOTICE

The tiller does not contain any engine oil on delivery. Starting the engine with no or too little engine oil may damage the tiller.

- ▶ Always check the engine oil level before starting and if necessary top up.
-
- ▶ Add the engine oil as described in the engine instruction manual.

6.10 Filling the Oil Bath Air Filter

The oil bath air filter filters the air taken in by the engine.

NOTICE

The oil bath air filter does not contain any engine oil on delivery. Starting the engine with no or too little engine oil in the oil bath air filter may damage the tiller.

- ▶ Always check the engine oil level in the oil bath air filter before starting and if necessary top up.

The engine oil specification and capacity can be found in the engine instruction manual.

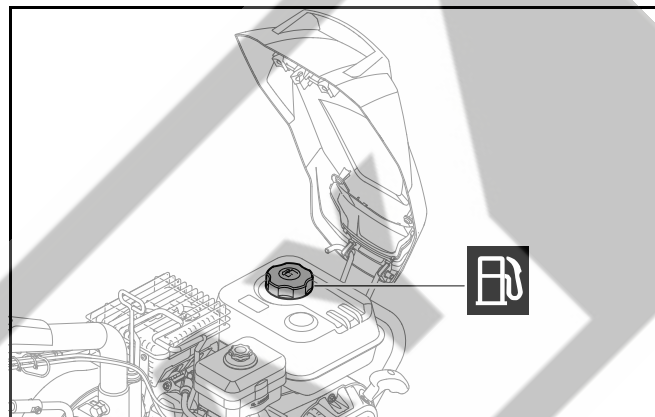
7 Refueling the Tiller

7.1 Refuelling the Tiller

NOTICE

The tiller may be damaged if the correct fuel is not used.

- ▶ Observe the specifications in the engine instruction manual.
- ▶ Stop the engine.
- ▶ Place the tiller on a level surface.
- ▶ Open the cover.
- ▶ Clean the area around the fuel tank cap with a damp cloth.



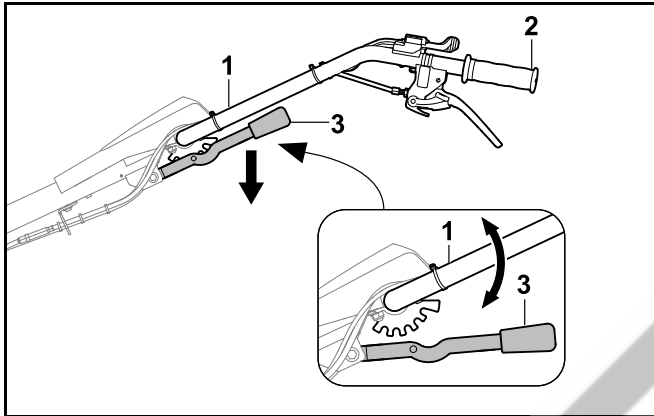
- ▶ Turn the fuel tank cap anti-clockwise until it can be removed.
- ▶ Remove the fuel tank cap.
- ▶ Add fuel without spilling any and stop at least 15 mm short of the fuel tank brim.
- ▶ Place the fuel tank cap on the fuel tank.
- ▶ Turn the fuel tank cap clockwise and hand tighten. The fuel tank is sealed.

8 Adjusting the Tiller for the User

8.1 Adjusting the Handlebar Height

The handlebar can be adjusted to five different height settings.

- ▶ Stop the engine.
- ▶ Place the tiller on a level surface.

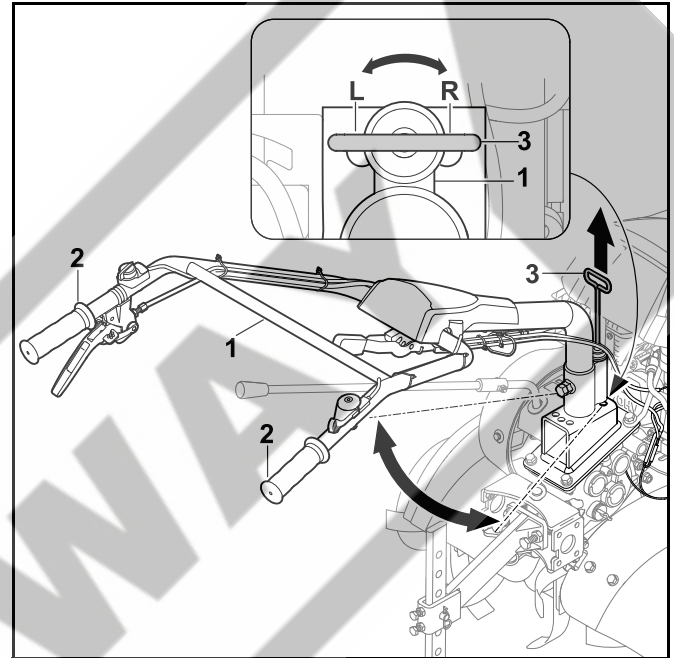


- ▶ Hold handlebar (1) with one hand on handle (2).
 - ▶ Press lever (3) downwards with the other hand and hold.
 - ▶ Move handlebar (1) into the desired position.
 - ▶ Release lever (3).
- The handlebar is engaged.

8.2 Adjusting the Handlebar Laterally

The handlebar can be adjusted laterally to three positions.

- ▶ Stop the engine.
- ▶ Place the tiller on a level surface.



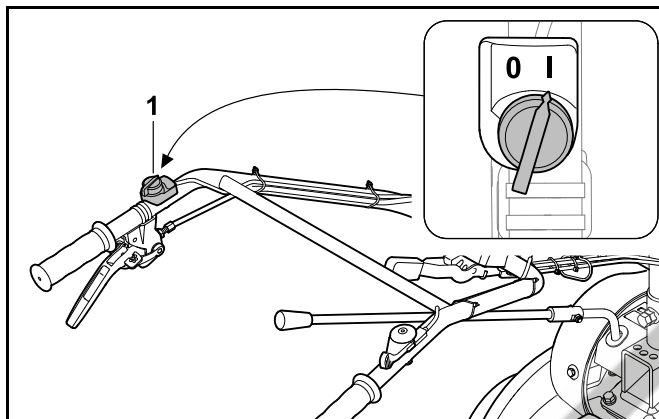
- ▶ Hold handlebar (1) with one hand on one of the two handles (2).
 - ▶ Pull lever (3) upwards with the other hand.
 - ▶ Move handlebar (1) into the desired position.
 - ▶ Release lever (3).
- The handlebar is engaged.

9 Starting and Stopping the Tiller

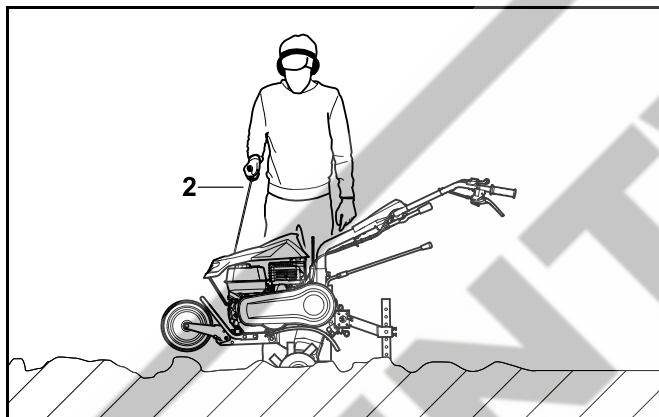
9.1 Starting and Stopping the Engine

9.1.1 Starting the Engine

- ▶ Place the tiller on a level surface.
- ▶ Set idle.



- ▶ Set main switch (1) to the I position.

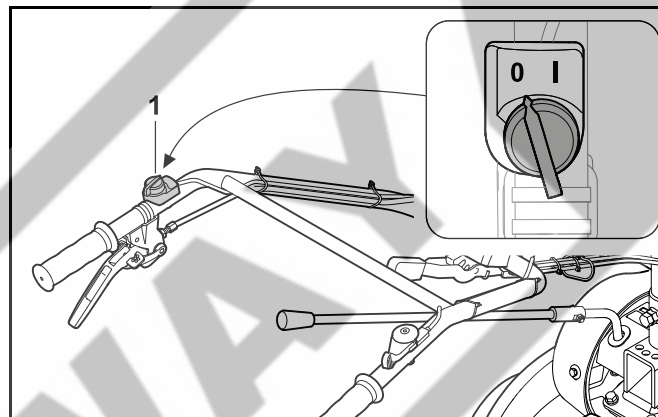


- ▶ Slowly pull out starter handle (2) to the point of noticeable resistance.
- ▶ Keep quickly pulling out and returning starter handle (2) until the engine is running.
- ▶ If the engine does not start: see the engine instruction manual.

9.1.2 Stopping the Engine

- ▶ Place the tiller on a level surface.

- ▶ Switch off self-propulsion.
The drive is disengaged and the drive shaft no longer rotates.

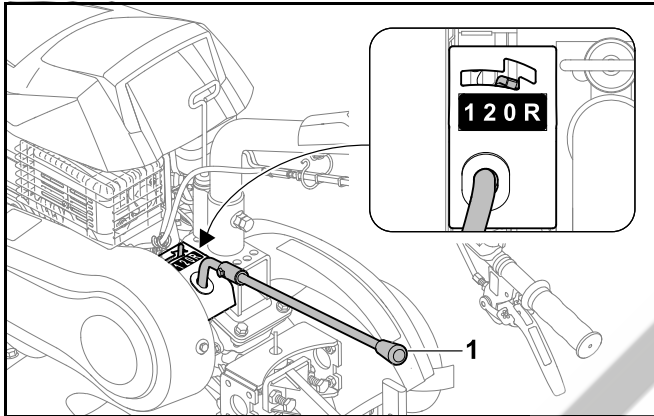


- ▶ Set main switch (1) to the 0 position.
The engine cuts out.

9.2 Setting the Gear

Four gears can be set.

- 0 = Idle
 - Idle is used to start the engine or to keep the tiller stationary with the engine running.
- 1 = Slow forward gear
 - Slow forward gear is selected when loosening firm soil or when making furrows.
- 2 = Fast forward gear
 - Fast forward gear is selected when working soil additives into loose soil or when tilling loose soil.
- R = Reverse gear
 - Reverse gear is used to free the hoes or to position the tiller.

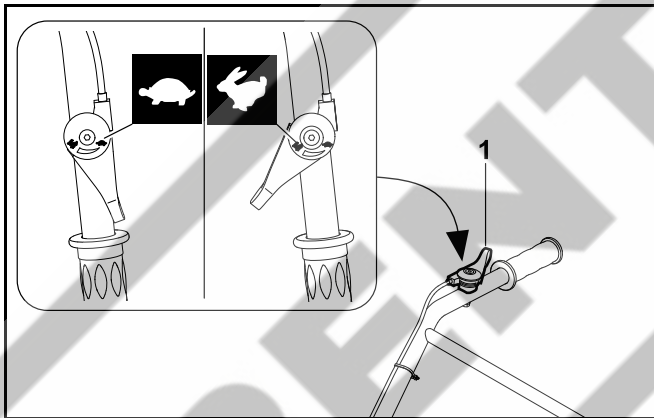


- Move gear lever (1) to the desired position.

9.3 Adjusting the Engine Speed

The engine speed can be regulated using the throttle lever.

- Start the engine.



- Adjust the engine speed using throttle lever (1).

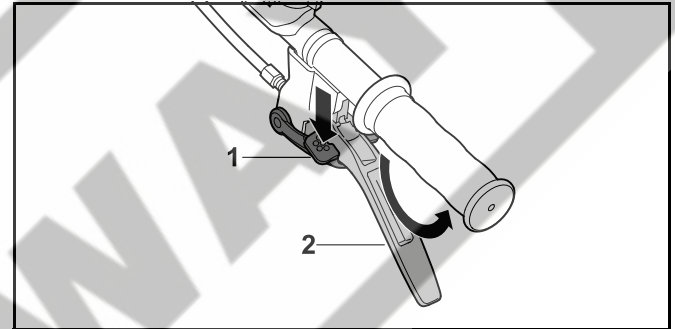
9.4 Engaging and Disengaging Self-propulsion

9.4.1 Engage self-propulsion.

The clutch lever for self-propulsion is used to engage or disengage the drive shaft when the engine is running.

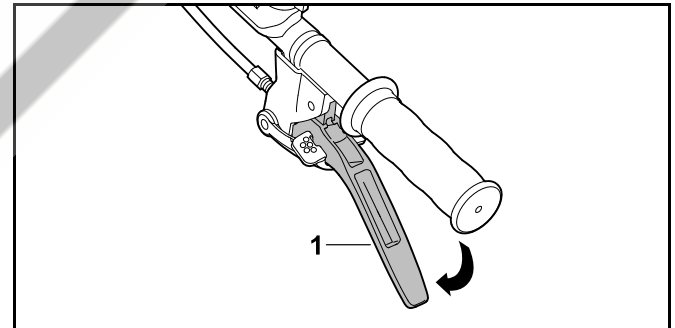
When the clutch lever for self-propulsion is actuated with the hoes attached and gear 1, 2 or R engaged, the tiller moves.

- Start the engine.



- Press lock (1) to the stop and hold.
- Press clutch lever for self-propulsion (2) quickly to the stop and hold.
- Release lock (1).
The drive is engaged and the drive shaft rotates.

9.4.2 Disengaging Self-propulsion



- ▶ Release clutch lever for self-propulsion (1).
The drive is disengaged and the drive shaft does not rotate.

10 Checking the Cultivator

10.1 Checking the Controls

Lock

- ▶ Stop the engine.
- ▶ Try to press the clutch lever for self-propulsion without pressing the lock.
- ▶ If the clutch lever for self-propulsion can be pressed: do not use the tiller and consult a STIHL specialist dealer.
The lock is defective.
- ▶ Press the lock and hold.
- ▶ Press the clutch lever for self-propulsion.
- ▶ Release the clutch lever for self-propulsion and lock.
- ▶ If the clutch lever for self-propulsion or lock is stiff or does not spring back into the initial position: do not use the tiller and consult a STIHL specialist dealer.
The clutch lever for self-propulsion or lock is defective.

Clutch lever for self-propulsion

- ▶ Start the engine.
- ▶ Set 1st, 2nd or reverse gear.
- ▶ Engage self-propulsion.
The drive is engaged and the drive shaft rotates.
- ▶ If self-propulsion does not engage:
 - ▶ Do not use the tiller and consult a STIHL specialist dealer.
The clutch lever for self-propulsion is defective.

Main switch

- ▶ Start the engine.
- ▶ Set the main switch to the 0 position.
The engine cuts out.
- ▶ If the engine does not cut out:

- ▶ Do not use the tiller and consult a STIHL specialist dealer.
The main switch is defective.

Throttle lever

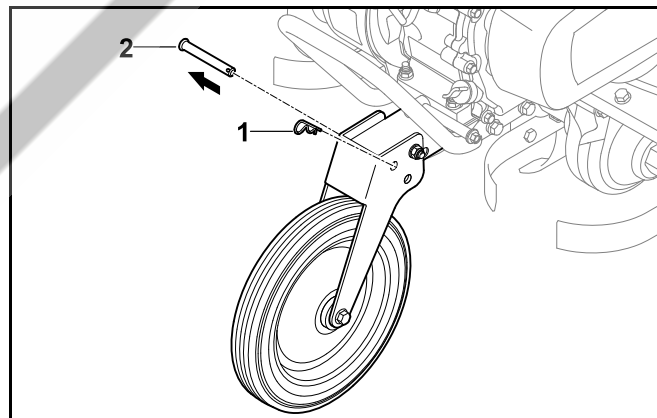
- ▶ Start the engine.
- ▶ Move the throttle lever.
The engine speed changes.
- ▶ If the engine speed does not change:
 - ▶ Do not use the tiller and consult a STIHL specialist dealer.
The throttle lever is defective.

Gear lever

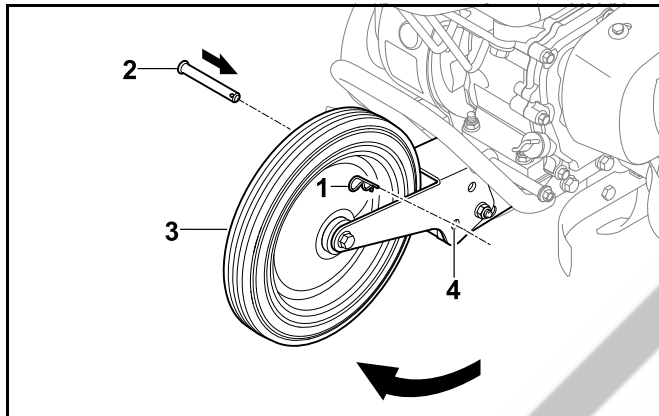
- ▶ Engage 0, 1st, 2nd and reverse gear.
- ▶ If one of the gears cannot be engaged:
 - ▶ Do not use the tiller and consult a STIHL specialist dealer.
The gear lever is defective.

11 Working with the Cultivator

11.1 Placing the Front Wheel in the Operating Position

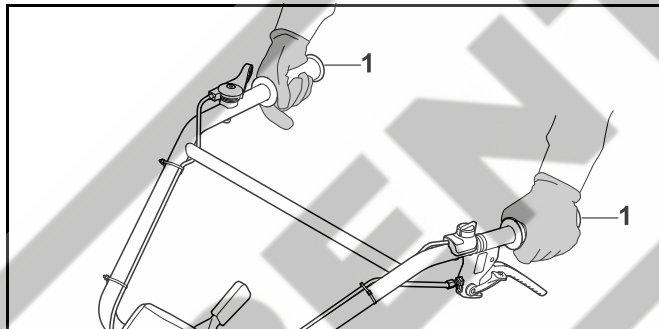


- ▶ Detach retaining pin (1) and remove pin (2).



- ▶ Fold up front wheel (3) so bores (4) align.
- ▶ Insert pin (2) through bores (4).
- ▶ Push retaining pin (1) through the bore in pin (2). Pin (2) is secured and front wheel (3) is in the operating position.

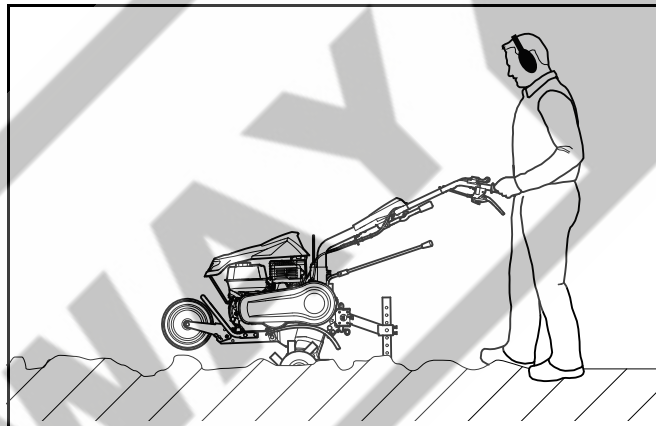
11.2 Holding and Guiding the Tiller



- ▶ Hold the tiller with both hands on handles (1) so the thumbs enclose the handles.

11.3 Loosening Firm Soil or Working Soil Additives into Loose Soil

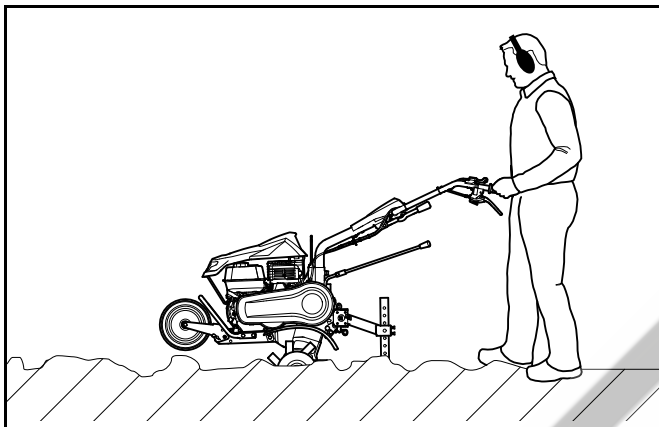
- ▶ Place the front wheel in the operating position.
- ▶ Start the engine.



- ▶ Guide the tiller forwards and regulate the working speed and working depth using the blade spur.
- ▶ Move forwards slowly and in a controlled manner.
- ▶ If the hoes become blocked:
 - ▶ Engage reverse gear.
 - ▶ Guide the tiller slowly backwards until the hoes free themselves.
 - ▶ Set the gear.
 - ▶ Move forwards slowly and in a controlled manner.

11.4 Tilling Loose Soil

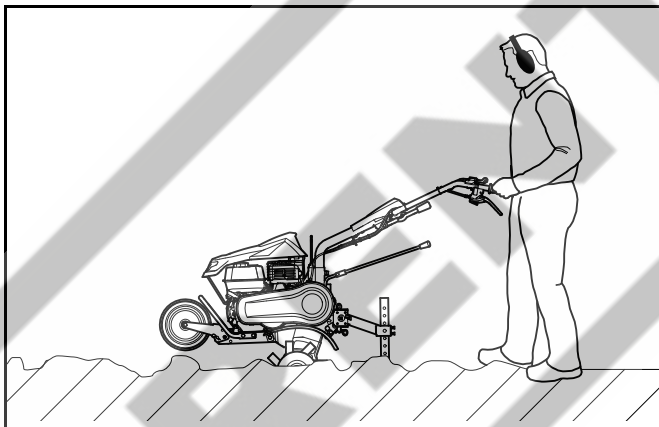
- ▶ Place the front wheel in the operating position.
- ▶ Start the engine.



- ▶ Guide the tiller forwards and regulate the working speed and working depth using the blade spur.
- ▶ Move forwards slowly and in a controlled manner.

11.5 Making Furrows

- ▶ Place the front wheel in the operating position.
- ▶ Start the engine.



- ▶ Guide the tiller forwards and regulate the working speed and working depth using the blade spur.
- ▶ Move forwards slowly and in a controlled manner.

12 After Finishing Work

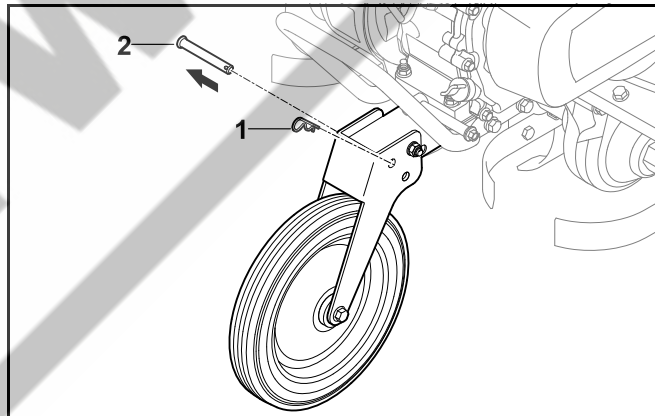
12.1 After Finishing Work

- ▶ Stop the engine.
- ▶ Allow the tiller to cool down.
- ▶ If the tiller is wet: allow the tiller to dry.
- ▶ Clean the tiller.
- ▶ Clean the hoes.

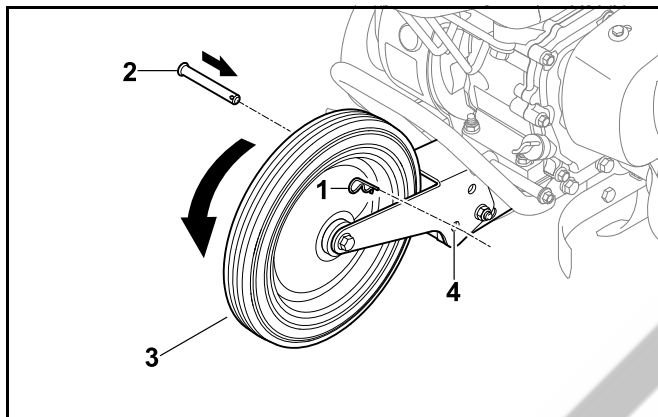
13 Transporting

13.1 Transporting the Tiller

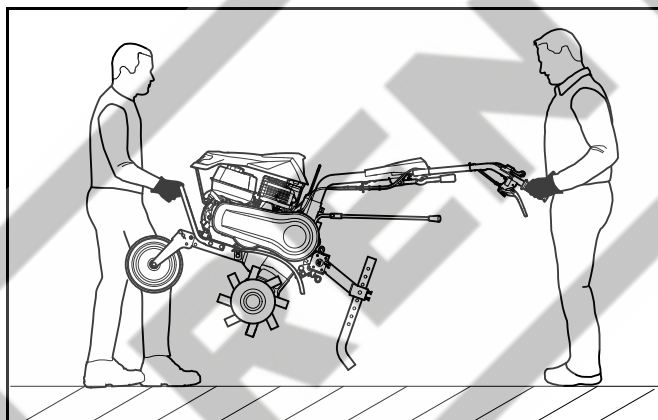
- ▶ Stop the engine.



- ▶ Detach retaining pin (1) and remove pin (2).



- ▶ Fold front wheel (3) downwards so bores (4) align.
- ▶ Insert pin (2) through bores (4).
- ▶ Push retaining pin (1) through the bore in pin (2). Pin (2) is secured and front wheel (3) is in the transport position.
- ▶ If the tiller is being transported using the front wheel:
 - ▶ Place the front wheel in the transport position.
 - ▶ Hold the tiller by both handles and lift so it is resting on the front wheel.
 - ▶ Push or pull the tiller slowly.



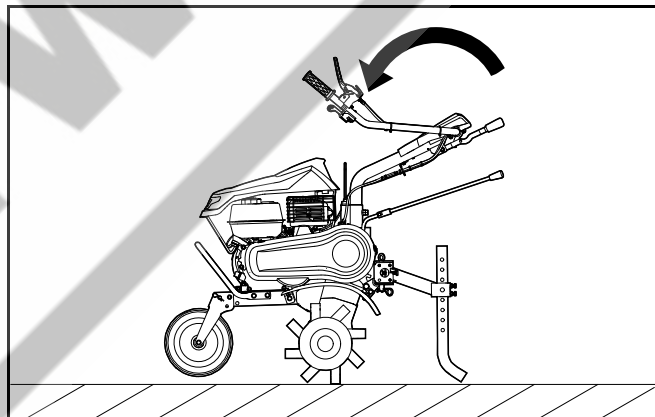
- ▶ If the tiller is being carried:

- ▶ One person holds the front transport handle using both hands and another person holds the handles using both hands.
- ▶ The tiller must be lifted and carried by two people.
- ▶ Wear work gloves made from resistant material.
- ▶ If the tiller is being transported in a vehicle:
 - ▶ Secure the tiller so it does not tip over and cannot move.

14 Storing

14.1 Storing the Tiller

- ▶ Stop the engine.
- ▶ Allow the tiller to cool down.
- ▶ Place the front wheel in the transport position.
- ▶ Fasten blade spur at fifth bore.



- ▶ Fold down the upper handlebar.
- ▶ Store the tiller in accordance with the following conditions:
 - The tiller is on a level surface resting on the front wheel, hoes and blade spur.
 - The tiller is out of reach of children.
 - The tiller is clean and dry.

If the tiller is to be stored for more than three months:

- ▶ Remove the hoes.
- ▶ Open the fuel tank cap.
- ▶ Empty the fuel tank.
- ▶ Seal the fuel tank.
- ▶ Have the fuel tank cleaned by a STIHL specialist dealer.
- ▶ Start the engine and leave it idling until it cuts out.

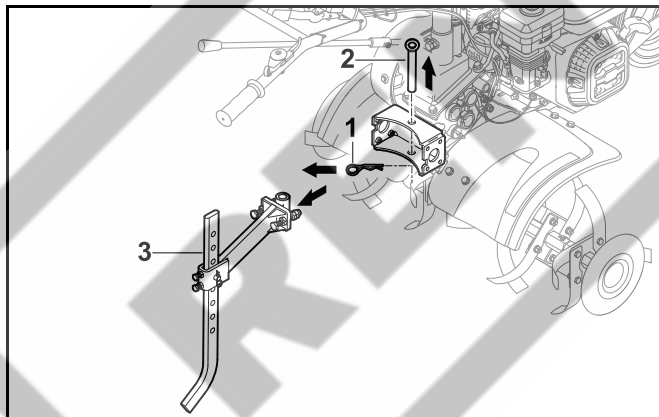
15 Cleaning

15.1 Cleaning the Tiller

- ▶ Stop the engine.
- ▶ Allow the tiller to cool down.
- ▶ Clean the tiller with a damp cloth or STIHL resin solvent.
- ▶ Clean the ventilation slots with a paintbrush.
- ▶ Spray the drive shaft with STIHL multispray.

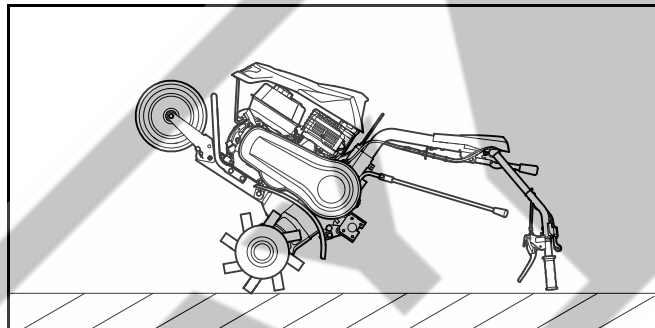
15.2 Cleaning the Hoes

- ▶ Stop the engine.
- ▶ Allow the tiller to cool down.
- ▶ Place the front wheel in the operating position.
- ▶ Set the handlebar to the lowest level.



- ▶ Detach retaining pin (1) and remove pin (2).

- ▶ Remove the blade spur together with adapter (3).



- ▶ Rest the tiller on the handlebar and do not leave in the position for longer than it takes to clean it.

16 Maintenance

16.1 Maintenance Intervals

Maintenance intervals are dependent on the ambient conditions and the working conditions. STIHL recommends the following maintenance intervals:

Engine and oil bath air filter

- ▶ Maintain the engine and oil bath air filter as described in the engine instruction manual.

Before each use:

- ▶ Check the gearbox oil level.

After the first month or after 20 operating hours:

- ▶ Change the gearbox oil.

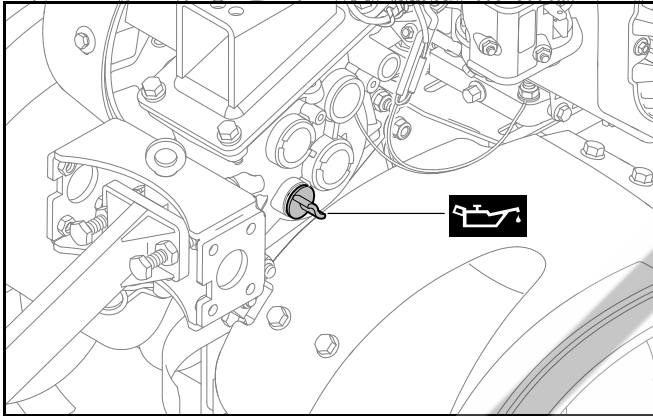
Every 6 months or after 100 operating hours:

- ▶ Change the gearbox oil.

16.2 Lubricating the Gearbox

- ▶ Stop the engine.
- ▶ Place the tiller on a level surface.

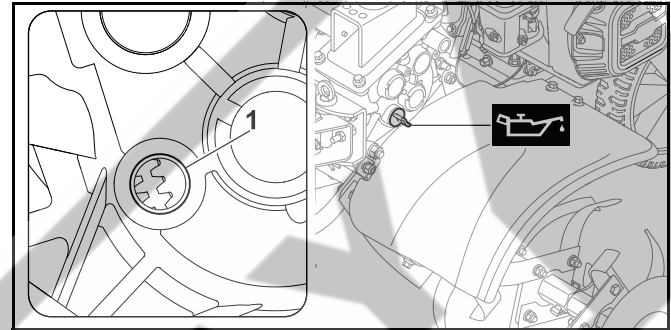
- ▶ Place the front wheel in the transport position.
- ▶ Fasten blade spur at fifth bore.



- ▶ Turn the gearbox oil cap anti-clockwise until it can be removed.
- ▶ Remove the gearbox oil cap.
- ▶ Add gearbox oil.
- ▶ Place the gearbox oil cap on the filler neck.
- ▶ Turn the gearbox oil cap clockwise and hand tighten. The filler neck is sealed.

16.3 Checking the Gearbox Oil Level

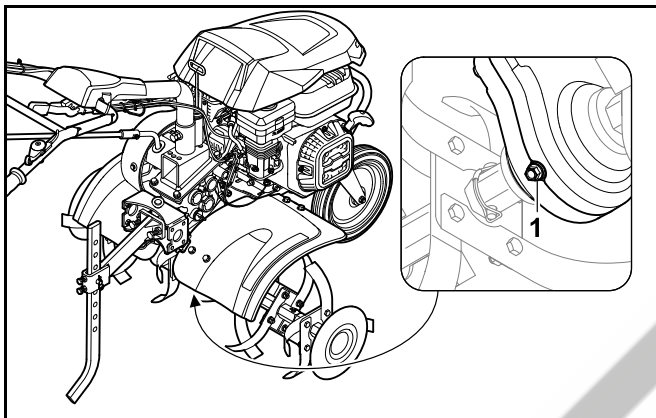
- ▶ Stop the engine.
- ▶ Place the tiller on a level surface.
- ▶ Place the front wheel in the transport position.
- ▶ Fasten blade spur at fifth bore.



- ▶ Turn the gearbox oil cap anti-clockwise until it can be removed.
- ▶ Remove the gearbox oil cap.
- ▶ If there is no gearbox oil visible at filler neck (1):
 - ▶ lubricate the gearbox.
- ▶ If there is gearbox oil visible at filler neck (1):
 - ▶ there is enough gearbox oil in the gearbox.
- ▶ Place the gearbox oil cap on the filler neck.
- ▶ Turn the gearbox oil cap clockwise and hand tighten. The filler neck is sealed.

16.4 Changing the Gearbox Oil

- ▶ Stop the engine.
- ▶ Place the tiller on a level surface.
- ▶ Place the front wheel in the transport position.
- ▶ Fasten blade spur at fifth bore.



- ▶ Unscrew screw plug (1).
- ▶ Drain the gearbox oil into a suitable container.
- ▶ Screw in screw plug (1) and tighten.
- ▶ Add gearbox oil.

17 Repairing

17.1 Repairing the Cultivator and Blades

The cultivator and blades cannot be repaired by the user.

- ▶ If the cultivator or blades are damaged: Do not use your cultivator and contact your STIHL servicing dealer for assistance.

18 Troubleshooting

18.1 Remedying Tiller Faults

Fault	Cause	Remedy
Engine cannot be started.	Insufficient fuel in fuel tank.	► Refuel tiller.
	Main switch set to 0 position.	► Press main switch.
	Inferior, dirty or old fuel in tank.	► Use fresh, good quality unleaded petrol. ► Clean carburettor. ► Clean fuel line.
	Spark plug socket detached from spark plug or ignition lead not properly fastened to socket.	► Connect spark plug socket. ► Check connection between ignition lead and plug.
	Spark plug dirty, damaged or electrode gap incorrect.	► Clean or replace spark plug. ► Adjust electrode gap.
	Oil bath air filter dirty.	► Clean or replace oil bath air filter.
	Engine flooded.	► Remove spark plug and dry; set main switch to 0 and pull starter rope repeatedly with spark plug removed.
	Carburettor iced up.	► Allow tiller to warm up to +10 °C.
Engine difficult to start or engine power deteriorating.	Water in fuel tank and carburettor or carburettor blocked.	► Empty fuel tank, clean fuel line and carburettor.
	Fuel tank contaminated.	► Clean fuel tank.
	Oil bath air filter dirty.	► Clean or replace oil bath air filter.
	Spark plug dirty.	► Clean or replace spark plug.
	Incorrect fuel used.	► Check fuel.
Engine overheating.	Cooling ribs dirty.	► Clean cooling ribs.
	Oil level in engine too low.	► Top up engine oil.
	Surface of engine covered in earth.	► Remove earth from engine.
	Engine speed too high.	► Reduce speed.

Fault	Cause	Remedy
Engine running roughly.	Oil bath air filter dirty.	► Clean or replace oil bath air filter.
	Incorrect fuel used.	► Check fuel.
	Insufficient fuel in fuel tank.	► Refill fuel tank.
Heavy smoke formation.	Oil level in engine too high.	► Drain engine oil.
	Oil bath air filter dirty.	► Clean or replace oil bath air filter.
	Angle of machine inclination over 15°.	► Place machine in horizontal working position.
Excessive vibration during operation.	Engine mounting loose.	► Tighten engine mounting bolts.
Tilling performance reduced.	Hoes incorrectly installed.	► Install hoes correctly.
	Hoes worn.	► Replace hoes.
	Blade spur incorrectly set.	► Adjust blade spur.
	Blade spur incorrectly set.	► Adjust blade spur.
	Drive belt worn.	► Consult a STIHL specialist dealer.
Loud gearbox noise.	Incorrect oil level in gearbox.	► Check oil level in gearbox.
	Components in gearbox worn.	► Consult a STIHL specialist dealer.
Drive shaft does not rotate when clutch lever actuated.	Cable defective.	► Check or replace cable.
	Drive belt worn.	► Consult a STIHL specialist dealer.
Oil leaking from gearbox or engine.	Components in gearbox or engine worn.	► Consult a STIHL specialist dealer.

19 Specifications

19.1 STIHL MH 600 Tiller

- Displacement: 212 cm³
- Power: 4.4 kW (6.0 HP) at 3,600 rpm
- Drive shaft speed in first gear: 80 rpm
- Drive shaft speed in second gear: 110 rpm
- Drive shaft speed in reverse gear: 60 rpm
- Weight: 67.5 kg
- Maximum fuel tank capacity: 3,600 cm³ (3.6 l)
- Hoe diameter: 310 mm
- Working width: 780 mm

19.2 Sound Values and Vibration Values

The K value for the sound pressure level is 2 dB(A). The K value for the sound power level is 2,4 dB(A). The K value for the vibration values is 2,76 m/s².

- Sound pressure level L_{pA} measured in accordance with 2006/42/EC: 87 dB(A)
- Sound power level L_{WA} measured in accordance with 2000/14/EC: 99 dB(A)
- Vibration value a_{hv} measured in accordance with EN 12096, handlebar: 6.90 m/s²

For information on compliance with Employers' Vibration Directive 2002/44/EC see www.stihl.com/vib

19.3 REACH

REACH is an EC regulation and stands for the Registration, Evaluation, Authorisation and Restriction of Chemical substances.

For information on compliance with the REACH regulation see www.stihl.com/reach.

20 Spare Parts and Accessories

20.1 Spare parts and accessories

STIHL  These symbols indicate original STIHL spare parts and original STIHL accessories.

STIHL recommends the use of original STIHL spare parts and accessories.

Despite ongoing market observation, STIHL is unable to judge the reliability, safety and suitability of other manufacturers' spare parts and accessories; accordingly, STIHL cannot warrant for the use of those parts.

Original STIHL spare parts and original STIHL accessories are available from STIHL dealers.

20.2 Essential Spare Parts

- Folding retainer: 6250 716 4800
- V-belt: 6250 711 5000
- Left hoe assembly: 6250 710 0202
- Right hoe assembly: 6250 710 0203
- Blade repair kit: 6250 007 1800

20.3 Accessories

- Cast-iron wheels: AMR 060.0
- Ridger: AHK 800.0
- Running wheels: ART 012.0
- Hoe transport adapter: AHT 600.0

21 Disposal

21.1 Disposing of the Tiller

Information on disposal is available from a STIHL specialist dealer.

- ▶ Dispose of the tiller, hoes, petrol, engine oil, gearbox oil, battery, accessories and packaging in accordance with regulations and in an environmentally friendly manner.

22 EC Declaration of Conformity

22.1 STIHL MH 600.1 Tiller

STIHL Tirol GmbH
Hans Peter Stihl-Strasse 5
6336 Langkampfen
Austria

declares under our sole responsibility that

- design: tiller, petrol-driven
- manufacturer's brand: STIHL
- type: MH 600.1
- serial number: 6250

complies with the relevant provisions of Directives 2014/30/EU, 2006/42/EC, 2011/65/EU and has been developed and manufactured in accordance with the versions of the following standards valid on the date of manufacture: EN 709, EN ISO 14982, EN ISO 3744, ISO 11094.

Name and address of relevant, named location:
TÜV SÜD Product Service GmbH
Ridlerstrasse 65
D-80339 Munich

The measured and guaranteed sound power levels were determined in accordance with Directive 2006/42/EC.

- Measured sound power level: 99.0 dB(A)

- Guaranteed sound power level: 101 dB(A)

The technical documents are stored in the Product Approval department at STIHL Tirol GmbH.

The year of manufacture and machine number are indicated on the tiller.

Langkampfen, 02.01.2020

STIHL Tirol GmbH

p.p.



Matthias Fleischer, Head of Research and Development Division

p.p.



Sven Zimmermann, Head of Quality Division

23 Safety Information for Tillers

23.1 Introduction

This chapter describes the general safety instructions preformulated in the standard EN 709:1997 + A4:2009 for petrol-driven tillers.



WARNING

Read all the safety instructions, instructions, illustrations and technical data provided with the tiller. Failure to comply with the following instructions may cause electrical shock, fire and/or serious injury. **Keep all safety instructions and instructions for the future.**

23.2 General Information

- a) Read the instruction manual carefully. Ensure that you are familiar with the controls and proper use of the machine.
- b) Never allow children or other persons who are not familiar with the instruction manual to use the machine. Local regulations may specify a minimum age for users.
- c) Never work in the vicinity of other persons, particularly children, or pets.
- d) Be aware that the person operating the machine or the user is responsible for accidents involving third parties or damage to their property.

23.3 Preparatory Measures

- a) Always wear robust shoes and long trousers when working. Never operate the machine barefoot or in lightweight sandals.
- b) Inspect the area on which the machine is to be used and remove any objects that could be thrown up by the machine.
- c) **WARNING** - petrol is extremely inflammable:
 - Fuel must only be stored in appropriate containers.
 - Refuel out of doors only and do not smoke during filling.
 - Re-filling with petrol must be performed before the engine is started. Never open the tank cap or top up petrol while the engine is running or hot.
 - If the petrol tank overflows, do not attempt to start the engine. The machine must be removed from the area contaminated with petrol. All attempts at starting must be avoided until the petrol fumes have dispersed.
 - For safety reasons, petrol tanks and tank caps must be replaced (regularly).
- d) Replace damaged exhaust silencers.
- e) Before using the machine, always visually inspect the tools for wear or damage. To avoid imbalance, worn or damaged parts and retaining pins must be replaced in pairs.

23.4 Handling

- a) Do not run the engine in an enclosed space where dangerous carbon monoxide may accumulate.
- b) Only work during the day or when there is enough light.
- c) Always ensure good stability on slopes.
- d) Only work at walking speed.
- e) For machines on wheels: only work at right-angles to and never up or down the slope.
- f) Be particularly careful when changing direction on a slope.
- g) Do not mow on excessively steep slopes.
- h) Be particularly careful when turning the machine around or pulling it towards you.
- i) Do not alter the basic setting of the engine or run it at excessive engine speeds.
- j) Start the engine carefully in accordance with the manufacturer's instructions and keep your feet a safe distance from the tool(s).
- k) Never put hands or feet on or underneath rotating parts.
- l) Never lift or carry a machine with the engine running.
- m) The engine must be stopped:
 - if you leave the machine;
 - before you refuel.
- n) The throttle valve must be closed when the engine is running on. If the machine has a petrol shut-off valve, it must be closed after working.

23.5 Maintenance and Storage

- a) Always make sure that all nuts, pins and bolts are securely tightened so the machine is in a safe operating condition.
- b) Never store the machine with petrol in the tank inside a building in which the petrol fumes could come into contact with naked flames or sparks or could be ignited.
- c) Allow the engine to cool down before storing the machine in an enclosed space.

- d) In order to prevent fire hazards, keep the engine and exhaust free from plant trimmings or leaking lubricant.
- e) In the interests of safety, replace all worn or damaged parts.
- f) If it is necessary to drain the tank, this must be done out of doors.

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