



Husqvarna®



R 316TX, R 316TX AWD, R 316TsX AWD

EN	Operator's manual
ES	Manual de usuario
PT	Manual do utilizador
IT	Manuale dell'operatore

2-43
44-86
87-129
130-173

Contents

Introduction.....	2	Transportation, storage and disposal.....	34
Safety.....	8	Technical data.....	37
Assembly.....	13	Service.....	42
Operation.....	15	Declaration of Conformity.....	43
Maintenance.....	20	Registered trademarks.....	43
Troubleshooting.....	32		

Introduction

Pre-delivery inspection and product numbers

Note: A pre-delivery inspection has been done of this product. Make sure that you receive a signed copy of the pre-delivery inspection document from your dealer.

Husqvarna servicing dealer contact information:	
This operator's manual belongs to product with product number / serial number:	
/	
Engine:	
Transmission:	

Product description

The product is a ride-on lawn mower. Forward and reverse pedals let the operator adjust the speed seamlessly. An hour meter shows how many hours the operator has used the product. The product has headlights and is used with Combi cutting decks with BioClip. Models R 316TX AWD and R 316TsX AWD have all wheel drive (AWD).

Intended use

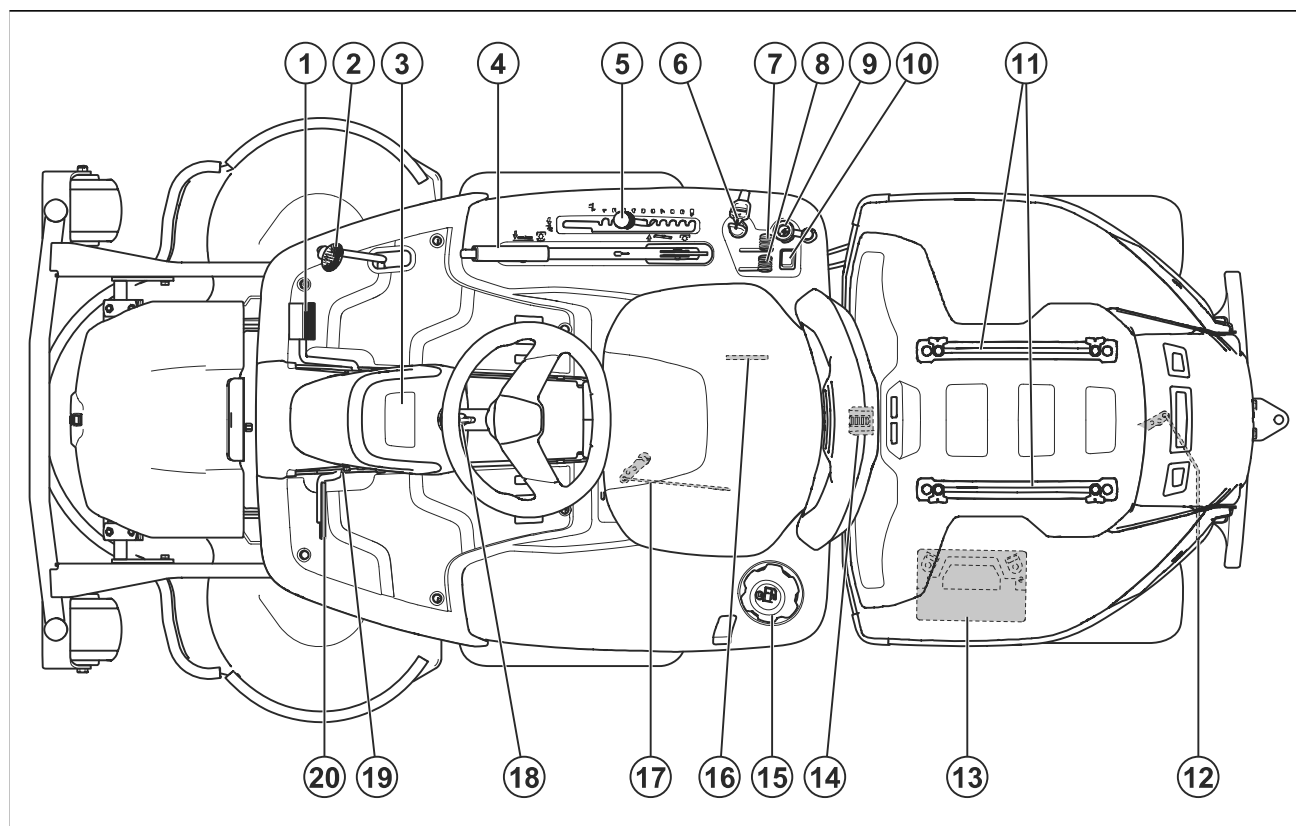
The product is made to cut grass on open and level ground in residential areas and gardens. Attach an

optional accessory to use the product for other tasks. Speak to your Husqvarna dealer for more information about which accessories that are available.

Insure your product

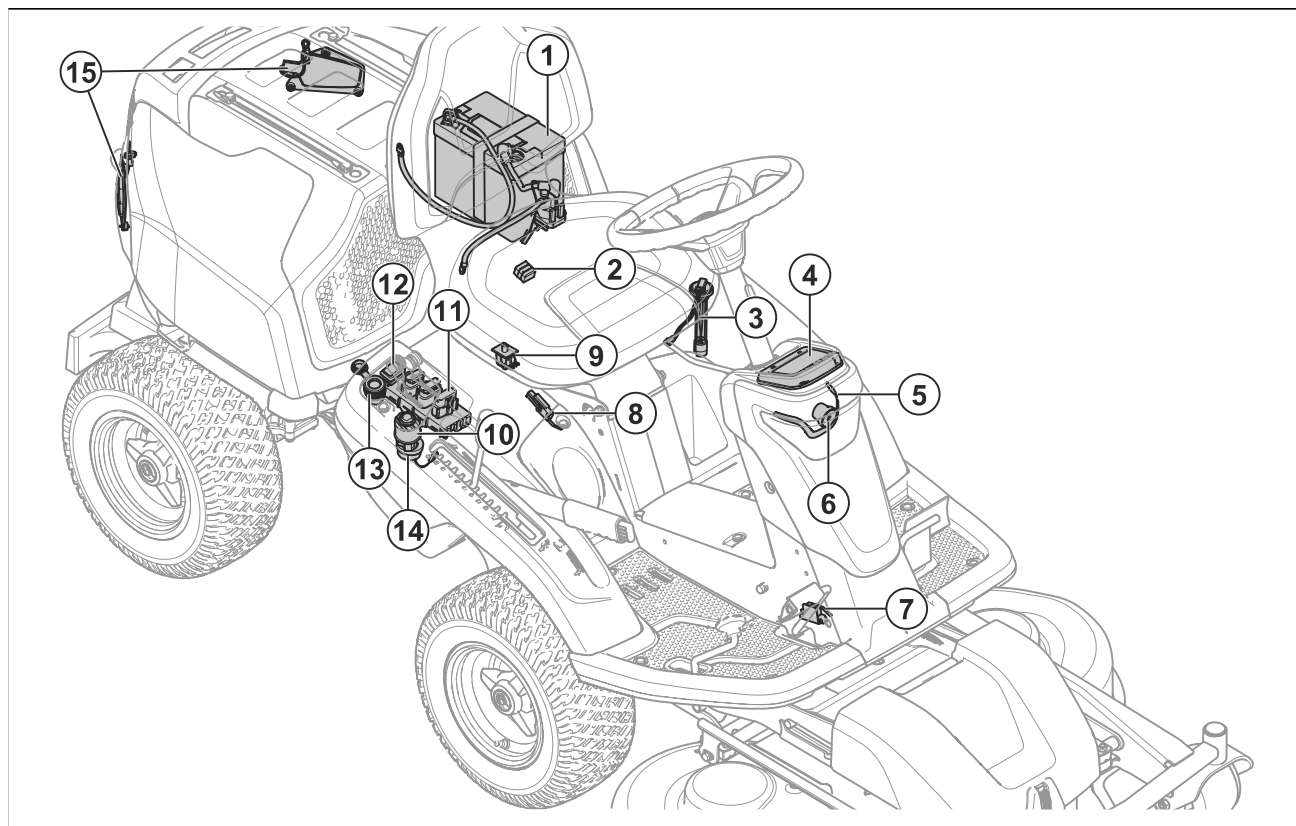
Make sure that you have insurance coverage for your new product. Speak to your insurance company if you are not sure. We recommend a fully comprehensive insurance that includes third party, fire, damage, theft and liability.

Product overview



- | | |
|-------------------------------------|--|
| 1. Forward pedal | 12. Lever to engage or disengage the transmission on the rear axle. |
| 2. Rearward pedal | 13. Battery |
| 3. Display | 14. Cover lock |
| 4. Lift lever for the cutting deck | 15. Fuel tank cap |
| 5. Cutting height lever | 16. Type plate with a scannable code |
| 6. Ignition lock / Headlight switch | 17. Lever to engage or disengage the transmission on the front axle on AWD products. |
| 7. Throttle control | 18. Steering wheel adjustment |
| 8. Choke control | 19. Lock button for parking brake |
| 9. 12 V power outlet | 20. Parking brake pedal |
| 10. Switch for high beam light | |
| 11. Rails | |

Electrical system overview



1. Battery
2. Main fuse
3. Fuel sensor
4. Display
5. Work lamp
6. High beam light
7. Microswitch, parking brake
8. Microswitch for the lift lever
9. Operator presence control (OPC)
10. Ignition lock / Headlight switch
11. Mower Control Module
12. Switch for high beam light
13. 12 V power outlet
14. Buzzer
15. Rear lights

Mower control module

The product has a mower control module that gives the operator information about the product. The information shows on the display on the instrument panel. Refer to *Display on page 6*.

The mower control module enables the servicing dealer to connect to the product when they do servicing.

Husqvarna Connect

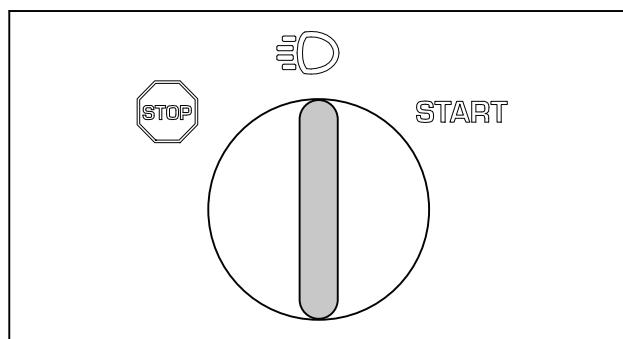
The product has *Bluetooth®* wireless technology and can connect to mobile devices that have the Husqvarna

Connect app installed. The Husqvarna Connect app is a free app for your mobile device. The Husqvarna Connect app gives extended functions for your Husqvarna product:

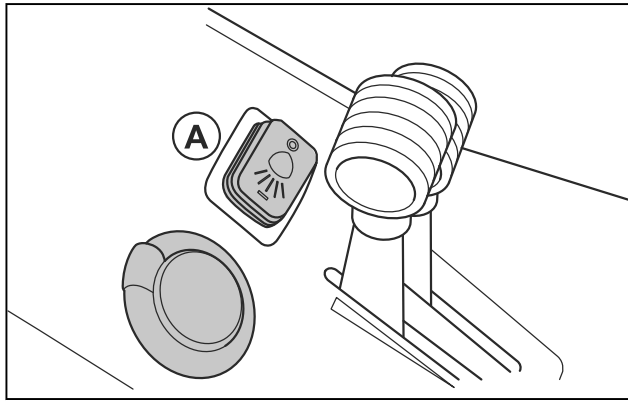
- Extended product information.
- Information about, and help with, product parts and servicing.

Headlights and rear lights

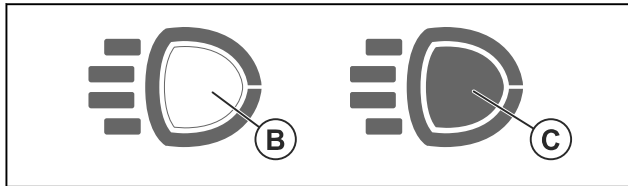
The headlights have work lights and high beam lights. The rear lights are position lights. Turn the ignition key to the lights position to make the work light and rear light come on. The work lights stay on for 3 minutes after the engine stops.



Push the switch (A) to make the high beam lights come on or go off.



When the work lights and the rear lights are on, the headlight symbol (B) shows on the display. When the high beam lights are on, the filled headlight symbol (C) shows on the display.



Power outlet

The voltage of the power outlet is 12 V. The power outlet has a fuse, see *Technical data on page 37*.

Set the power outlet to on and off with the power switch found on the control panel.

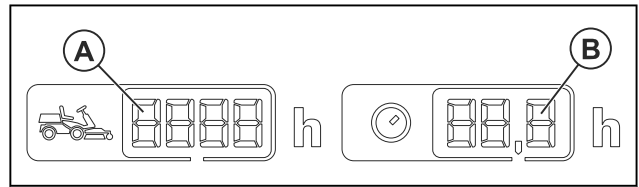
Hour meter

The product has 2 hour meters on the display. The hour meters show how many hours of operation of the engine has in total (A) and during the operation period (B). The last digit of the hour meter for the operation period, shows tenth of an hour (6 minutes).

The time with ignition on but engine off, is not registered.

Note: The total hour meter (A) only shows full hours.

Note: A operation period is the time the engine been turned on during 1 day. A new operation period starts if the engine is turned off for a minimum of 6 h.

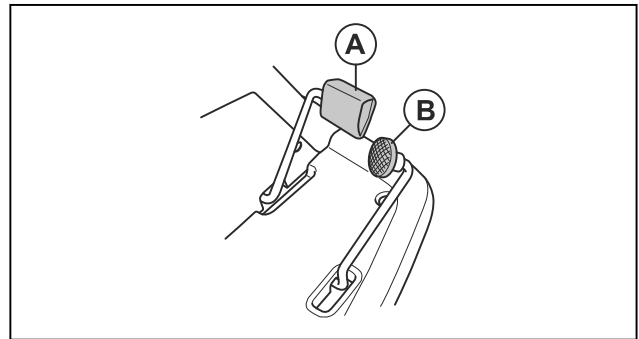


Operator Presence Control (OPC)

The OPC engages when the operator lifts from the seat. The engine and the drive to the blades stop if the blades are engaged or the parking brake is not applied. Refer to *Start conditions on page 10*.

Forward and rearward pedals

The speed is gradually adjusted with 2 pedals. The left pedal (A) is used to move forward, and the right pedal (B) is used to move rearward. The product stops when the pedals are released.



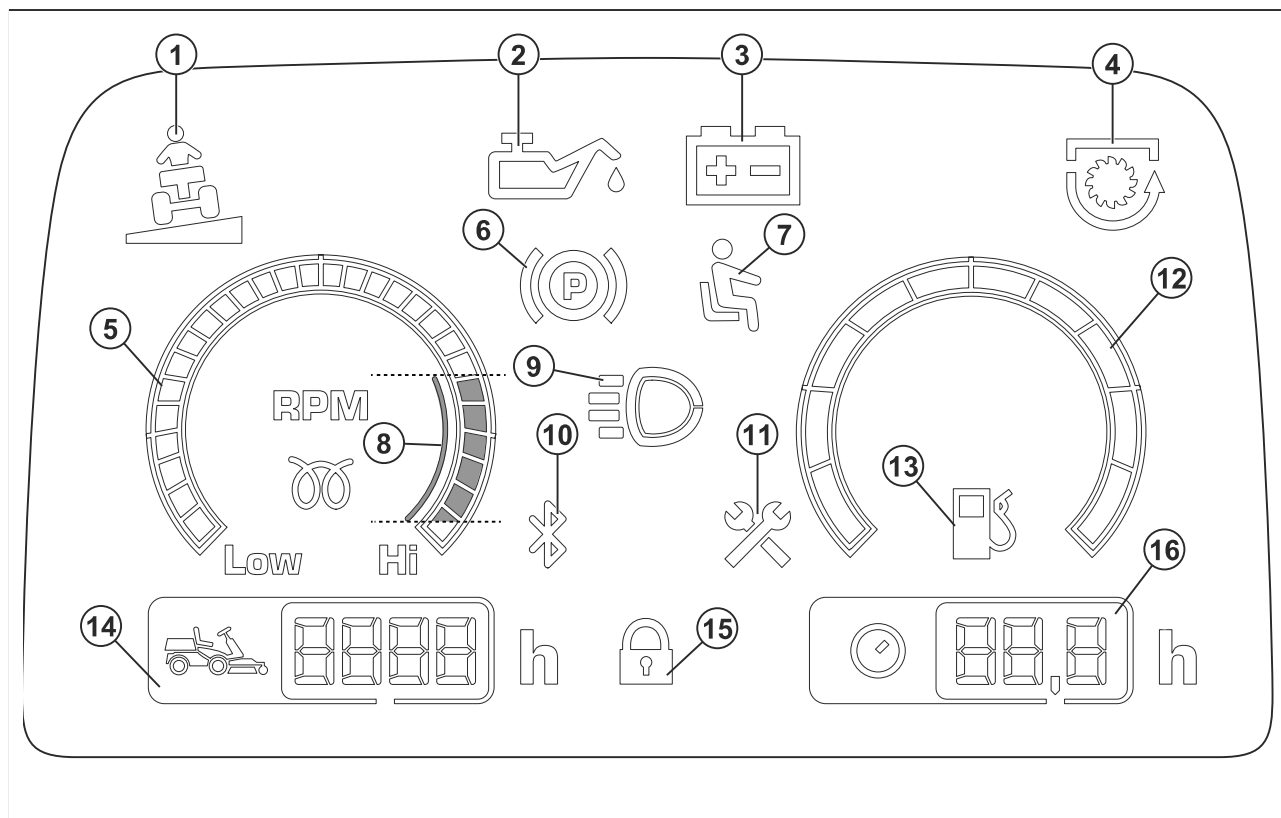
Cutting deck

The cutting decks for this product are Combi cutting decks with BioClip. BioClip cuts the grass into fertilizer. The Combi cutting decks can also be used without BioClip. Without BioClip the grass is ejected to the rear.

Display

The display on the instrument panel shows information of the status of the product.

Note: The appearance of the display can be different between different models.



1. Slope indicator
2. Oil pressure indicator
3. Battery level indicator
4. PTO indicator
5. Tachometer
6. Parking brake indicator
7. Operator presence control (OPC)
8. Recommended engine RPM when you operate the product.
9. Work light or high beam light indicator
10. Bluetooth®
11. Service indicator
12. Fuel gauge (R400 series only)
13. Low fuel level indicator
14. Total run time
15. Digital lock
16. Operation run time

Symbols on the product



WARNING: Careless or incorrect use can result in serious injury or death to the operator or others.



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



Rotating blades. Keep body parts away from the cover when the engine is on.



Warning: rotating parts. Keep body parts away.



Look out for ejecting objects and ricochets.



Never use the product if persons, especially children, or animals, are in the vicinity.



Look behind you before and while you move the product in reverse.



Never cut grass across a slope. Do not cut grass on ground that slopes more than 10°. See *To cut grass on slopes on page 11*.



Never carry passengers on the product or equipment.



Move forward.

N

Neutral gear.



Move rearward.



Parking brake.



This product is in accordance with applicable EC directives.



Noise emission to the environment label as per EU and UK directives and regulations, and New South Wales legislation "Protection of the Environment Operations (Noise Control) Regulation 2017". The guaranteed sound power level of the product is specified in *Technical data on page 37* and on the label.



Always use approved hearing protection.



Stop the engine.

START

Start the engine.



Engine speed – fast.



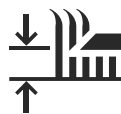
Engine speed – slow.



Fuel.



Max. ethanol 10%.



Cutting height.



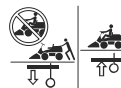
Servicing position for the cutting height lever.



The blades are engaged.



The blades are disengaged.



Engage and disengage the drive system.



Oil level.



Servicing position for the cutting deck.



Operation position for the cutting deck.



Scannable code

yyyywwxxxx

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

Note: Other symbols/decals on the product refer to certification requirements for some markets.

Euro V Emissions



WARNING: Tampering with the engine voids the EU type-approval of this product.

Product damage

We are not responsible for damages to our product 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.

Support

For support about the product, go to the Support section on to access instructions, troubleshooting guides, or to use the Husqvarna Self-Service and the Product Assistant (if available in your market). For more support about the product, speak to your Husqvarna servicing dealer.

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: This product can cut off hands and feet and throw objects. Serious injury or death may occur if you do not obey the safety instructions.



WARNING: Do not continue to use a product with damaged cutting equipment. Damaged cutting equipment can throw objects and cause serious injury or death. Replace damaged blades immediately.



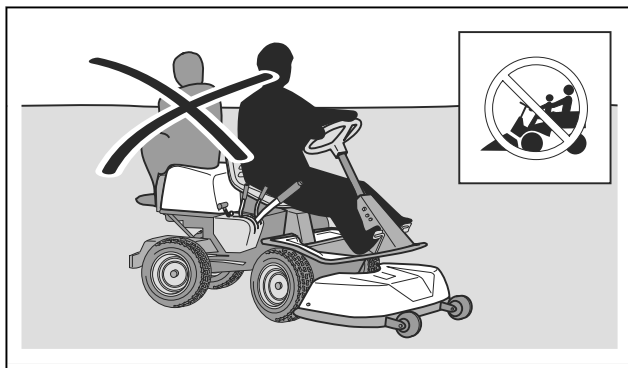
WARNING: This product produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical

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.

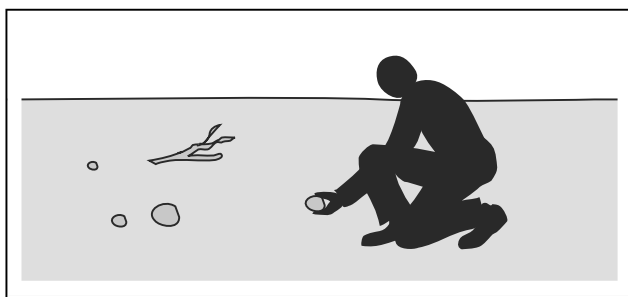


WARNING: Read the warning instructions that follow before you use the product.

- Always be careful and use your common sense. Avoid all situations which you consider to be beyond your capability. If you feel uncertainty about the operating procedures after you read the operator's manual, consult an expert before you continue.
- Read and understand the operator's manual and the instructions on the product carefully before you start the product.
- Learn how to use the product and its controls safely and learn how to stop the product quickly.
- Learn to recognize the safety decals.
- Keep the product clean to make sure that you can clearly read signs and stickers.
- Keep in mind that the operator will be held responsible for accidents that involve other persons or their property.
- Do not transport passengers. The product must only be used by one person.



- Do not let the product stay unsupervised with the engine on. Always stop the blades, apply the parking brake, stop the engine and remove the ignition key before you let the product stay unsupervised.
- Only use the product in daylight or in other well-lit conditions. Keep the product at a safe distance from holes or other irregularities in the ground. Look out for other possible risks.
- Do not use the product in bad weather, for example in fog, in rain, moist or in wet locations, strong winds, intense cold, risk of lightning, etc.
- Find and mark stones and other fixed objects to prevent collision.
- Clear the area of objects such as stones, toys, wires, etc. that may become caught in the blades and be thrown out.



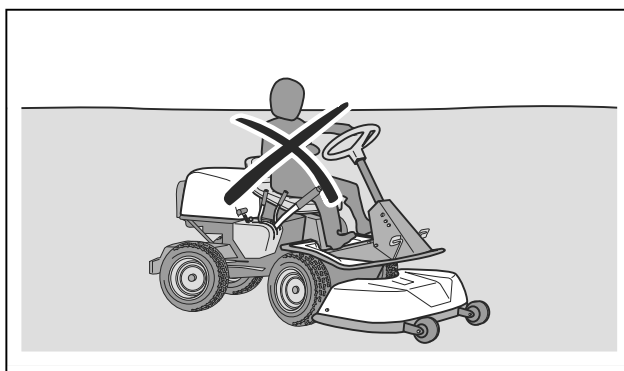
- Do not let children or other persons not approved for operation of the product to use or do servicing on it. Local laws may regulate the age of the user.
- Make sure that nobody else is in the vicinity of the product when you start the engine, engage the drive or start to move the product.
- Keep an eye on the traffic when you mow near a road or move across a road.
- Do not use the product if you are fatigued, while under the influence of alcohol or drugs, medicine or anything that can have a negative effect on your vision, alertness, coordination or judgement.
- Always park the product on a level surface with the engine stopped.

Safety instructions regarding children



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

- Serious accidents can occur if you are not on your guard for children in the vicinity of the product. Children can be attracted to the product and to mowing. It is very possible that children do not stay where you last saw them.
- Keep children away from the area to be mowed. Make sure that an adult is responsible for the children.
- Keep an eye out and stop the product if children enter the work area. Be very careful near corners, bushes, trees or other objects that prevents a clear view.
- Before and while you move the product in reverse, look behind you and look down to make sure there are no small children in the vicinity of the product.
- Do not let children ride along. They can fall off and get seriously injured or prevent safe maneuvering of the product.
- Do not let children operate the product.



Safety instructions for operation



WARNING: Do not touch the engine or exhaust system during or directly after operation. The engine and the exhaust system become very hot during operation. Risk of burn injuries, fire and damage to property or adjacent areas. When you operate the product, keep away from bushes and other objects.



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

- Always look down and behind you before and while you move in reverse. Look out for large and small obstacles.
- Decrease the speed before you turn around a corner.
- Stop the blades when you move across areas that you do not cut.



CAUTION: Read the caution instructions that follow before you use the product.

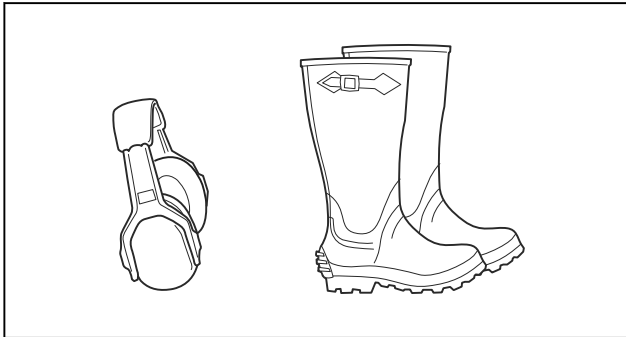
- Before you operate the product, clear the cold air intake of the engine from grass and dirt. If the cold air intake is blocked, there is a risk of engine damage.
- Move around stones and other larger objects carefully and make sure that the blades do not hit the objects.
- Do not operate the product across objects. Stop and examine the product and cutting deck if you operate the product across or into an object. If it is necessary, make repairs before you restart.

Personal protective equipment



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

- 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 right equipment.
- Use approved hearing protection. Long-term exposure to noise can result in permanent hearing impairment.
- Use heavy-duty slip-resistant boots or shoes. Steel toes are recommended. Do not use open shoes or go with bare feet.



- Use protective gloves when necessary, for example when you attach, examine or clean the cutting equipment.
- Do not wear loose-fitting clothing, jewelry or other items that can get caught in moving parts.
- Keep first aid equipment and fire extinguisher near.

Safety devices on the product



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

- Do not use a product with safety devices that are damaged or do not operate correctly. Do a check of the safety devices regularly. If the safety devices are damaged, speak to your Husqvarna servicing dealer.
- Do not make modifications on safety devices. Do not use the product if protective plates, protective

covers, safety switches or other protective devices are not attached or are damaged.

To do a check of the ignition lock

- Start and stop the engine to do a check of the ignition lock. See *To start the engine on page 17* and *To stop the engine on page 19*.
- Make sure that the engine starts when you turn the ignition key to START.
- Make sure that the engine stops immediately when you turn the ignition key to STOP.

Start conditions

These conditions are necessary to start the engine:

- The cutting deck is lifted and the parking brake is applied.

The engine must stop in these situations:

- The cutting deck is lowered and the operator lifts from the seat.
- The cutting deck is lifted, the parking brake is not applied and the operator lifts from the seat.

Try to start the engine without one of the conditions. Change the conditions and try again. Do this check daily.

To do a check of the forward drive pedal and rearward drive pedal

1. Start the product.
2. Make sure that the forward drive pedal and rearward drive pedal are not blocked and can be operated freely.
3. Push the forward drive pedal carefully to move forward.
4. Release the forward drive pedal to brake. Make sure that the brake engages when the forward drive pedal is released.
5. Do the same procedure for the rearward drive pedal.

Note: The product has a brake function that engages automatically when you release the pedals. To decrease the speed faster, push the other pedal.

6. Make sure that the product does not move when the forward drive and rearward drive pedals are not engaged.

Parking brake



WARNING: If the parking brake does not work, the product can start to move and cause injury or damage. Make sure that the parking brake is regularly examined and adjusted.

Refer to *To do a check of the parking brake on page 23*.

Muffler

The muffler keeps the noise levels to a minimum and sends the exhaust fumes away from the operator.

Do not use the product if the muffler is missing or damaged. A damaged muffler increases the noise level and the risk of fire.



WARNING: The muffler becomes very hot during and after use and when the engine operates at idle speed. Be careful near flammable materials and/or fumes to prevent fire.

To do a check of the muffler

- Examine the muffler regularly to make sure that it is attached correctly and not damaged.

Protective covers

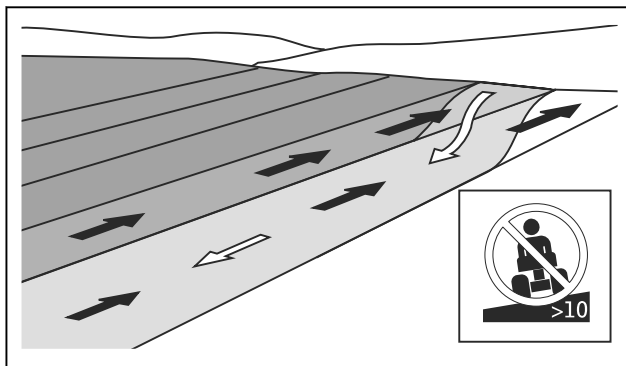
Missing or damaged protective covers increase the risk of injury on moving parts and hot surfaces. Do a check of the protective covers before you operate the product. Make sure that the protective covers are correctly attached and do not have cracks or other damages. Replace damaged covers.

To cut grass on slopes

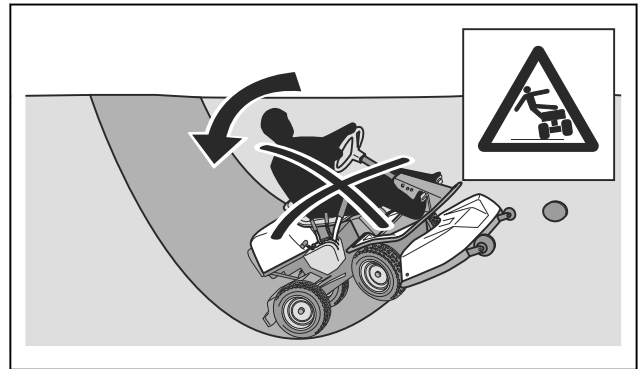


WARNING: Read the warning instructions that follow before you use the product.

- To cut grass on slopes increases the risk that you can not control the product and that it overturns. This can cause injury or death. It is necessary to cut the grass carefully on all slopes. If you cannot reverse up a slope or if you do not feel safe, do not cut it.
- Remove stones, branches and other obstacles.
- Cut up and down the slope, not from side to side.
- Do not move down a slope with the cutting deck lifted.
- Do not operate the product on ground that slopes more than 10°.



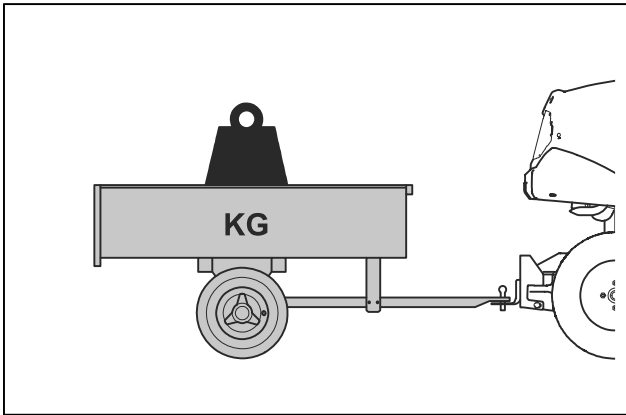
- Do not start or stop on a slope.
- Move smoothly and slowly on slopes.
- Do not make sudden changes in speed or direction.
- Do not turn more than necessary. Turn slowly and gradually when you move down a slope. Move at low speed. Turn the wheel carefully.
- Look out for and do not move across furrows, holes and bumps. There is a higher risk that the product overturns on ground that is not flat. Long grass can hide obstacles.
- Do not cut grass near edges, ditches or banks. The product can suddenly overturn if a wheel moves across the edge of a steep slope or a ditch, or if an edge gives way. If the product falls into water, there is a risk of drowning.



- Do not mow wet grass. It is slippery, and tires can lose their grip so that the product skids.
- Do not put your foot on the ground to try to make the product more stable.
- Move very carefully if an accessory or other object is attached that can make the product less stable.
- To make the product more stable, attach wheel weights or counterweights. Speak to your dealer for more information. On R 316TX AWD, R 316TsX AWD, use counterweights since wheel weights can not be used on AWD products.

Tow safety

- Only use tow equipment approved by Husqvarna.
- Use the tow bar to attach the equipment.
- Do not tow equipment that is heavier than the maximum permitted tow equipment weight. Refer to *Technical data on page 37*.



- Make sure that no other persons are near the product when you tow equipment.
- Be careful when you tow equipment on slopes or rough ground.
- Operate the product at low speed when you tow equipment.

Fuel safety



WARNING: Be careful with fuel. It is very flammable, and can cause injury and damage to property.



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

- Do not fill the fuel tank indoors.
- Gasoline and gasoline fumes are poisonous and very flammable. Be careful with gasoline to prevent injury or fire.
- Do not remove the fuel tank cap or fill the fuel tank when the engine is on.
- Let the engine become cool before you refuel.
- Do not smoke when you fill fuel.
- Do not fill fuel near sparks or naked flames.
- If there are leaks in the fuel system, do not start the engine until the leaks are repaired.
- Do not fill above recommended fuel level. The heat from the engine and the sun makes the fuel expand and the fuel overflows if the tank is filled too much.
- Do not fill too much. If you spill fuel on the product, clean up the spill and wait until it is dry before you start the engine. If you spill on your clothing, change it.
- Store fuel in approved containers only.
- Store the product and fuel in such a way that there is no risk that fuel leaks or fumes can cause damage.
- Drain off the fuel in an approved container outdoors and away from naked flames.

Battery safety



WARNING: A damaged battery can cause an explosion and cause injury. If the battery has a deformation or is damaged, speak to an Husqvarna servicing dealer.



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



WARNING: Sparks can occur when you charge or replace the battery. This can cause battery explosions, fire and eye injuries. Sparks cannot occur in the circuit when the battery ground cable is disconnected.

- Use protective glasses when you are near batteries.
- Keep the battery out of reach for children.
- Discard replaced batteries. Refer to *Disposal* on page 36.

Obey the following to prevent sparks:

- Do not wear watches, jewellery or other metal objects near the battery
- Make sure the tank cap is attached correctly.
- Do not keep flammable liquids in open containers
- Keep flammable materials at a minimum clearance of 1 m when you charge the battery.
- Do not do work on the starter motor circuit near spilled fuel.
- Explosive gases can come from the battery. Do not smoke near the battery. Keep the battery away from open flames and sparks.
- Disconnect the ground cable of the battery first and connect it last.
- Do not cause short circuits with tools.
- Do not cause short circuit to the starter relay connections to operate the starter motor.

Obey the following when you charge the battery:

- Charge the battery in a space with good airflow.
- Charge the battery at 12 V for a minimum of 4 hours. Use the Husqvarna battery charger.
- Make sure that the battery charger has the same voltage as the battery.
- Stop the charging process if the temperature of the battery exceeds 45 °C.

Transport safety

- Use an approved transport vehicle for transportation of the product.
- The product is heavy and can cause crush injuries. Be careful when you load it onto or off a vehicle or trailer.

- A markets national or local regulations can set limit to the transportation of the product.
- The operator of the transport vehicle is responsible to attach the product safely during transport. Refer to *Transportation on page 34*.

Safety instructions for maintenance



WARNING: The product is heavy and can cause injury or damage to property or the adjacent area. Do not do maintenance on the engine or the cutting deck without these conditions:

- The engine is off.
- The product is parked on a level surface.
- The parking brake is applied.
- The ignition key is removed.
- The cutting deck is disengaged.
- The ignition cables are removed from the plugs.



WARNING: The exhaust fumes from the engine contain carbon monoxide, an odourless, poisonous and very dangerous gas. Do not run the product in closed spaces or spaces with not sufficient air flow.



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

- For best performance and safety, do maintenance on the product regularly as given in the maintenance schedule. See *Maintenance schedule on page 20*.
- Electrical shocks can cause injuries. Do not touch the cables when the engine is on. Do not do a function test on the ignition system with your fingers.
- Do not start the engine if the protective covers are removed. There is a high risk of injury caused by moving or hot parts.
- Let the product become cool before you do maintenance near the engine.
- The blades are sharp and can cause cuts. Wind protection around the blades or use protective gloves when you do work on the blades.
- Always put the cutting deck in servicing position to clean it. Do not park the product near the edge of a ditch or slope to get access to the cutting deck.



CAUTION: Read the caution instructions that follow before you use the product.

- Do not turn over the engine if the spark plug or ignition cable is removed.
- Make sure that all nuts and bolts are tightened correctly and that the equipment is in good condition.
- Do not change the adjustment of governors. If the engine speed is too high, the product components can become damaged. See *Technical data on page 37* for highest permitted engine speed.
- The product is approved only with the equipment supplied or recommended by the manufacturer.

Assembly

Introduction



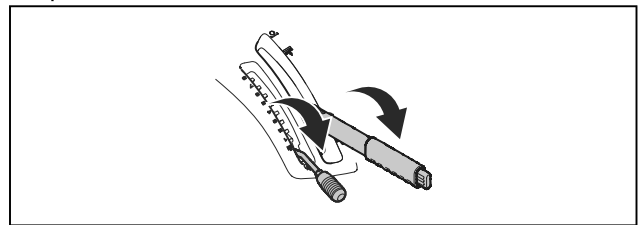
WARNING: The drive belt tension spring can break and cause injury. Wear protective glasses when you attach or remove the cutting deck.

Read the assembly instructions in the owner's manual carefully. A label on the inner side of the front cover on the product, also shows how to attach and remove the cutting deck.

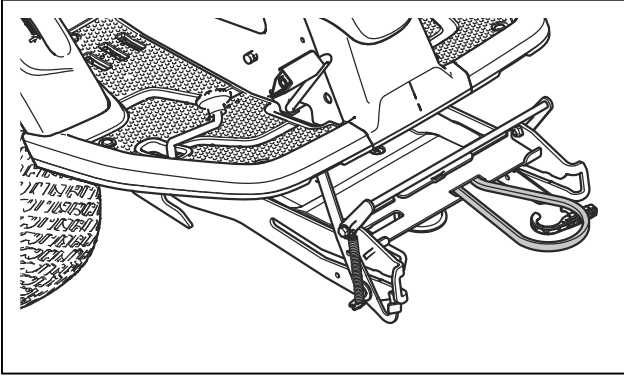
To attach the cutting deck

1. Park the product on level ground.
2. Apply the parking brake.
3. Set the cutting height lever in the servicing position.

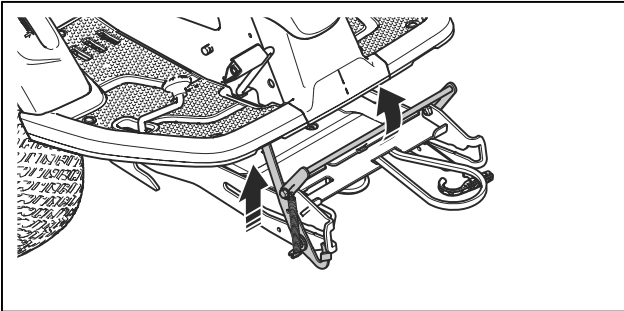
4. Set the lift lever for the cutting deck in the mow position.



5. Put the drive belt as shown to make sure that it does not get caught and break when the cutting deck is attached.

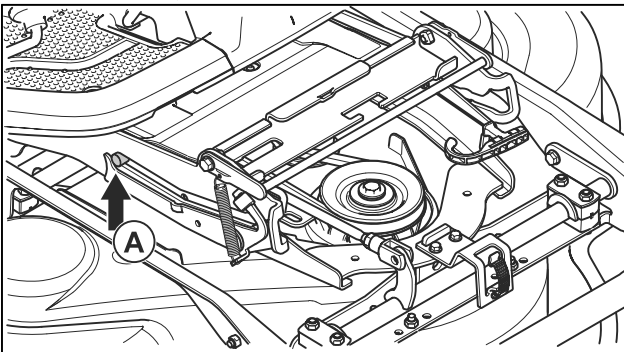


6. Push the equipment frame down. Lift the service lock to vertical position.

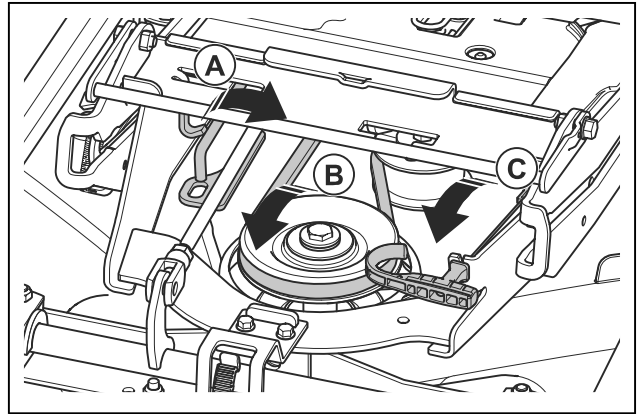


WARNING: The lock mechanism can cause injury to fingers if you do not operate it carefully. Put the service lock in full vertical position and hold the front edge of the cutting deck with two hands when you continue to the next step.

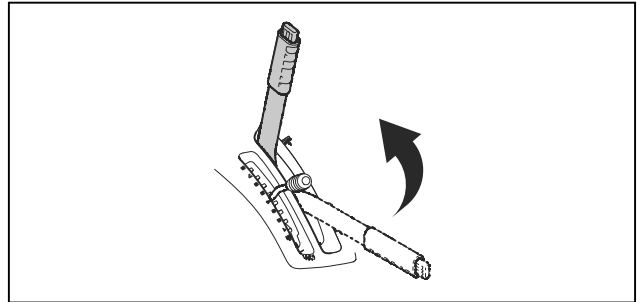
7. Lift the front edge of the cutting deck and move it into the equipment frame. The plugs on the cutting deck, one on each side, must be put in the grooves on the equipment frame. The service lock releases automatically.



8. Lift the cutting height stay from the stay holder and put it in the hole for the cutting height stay (A).



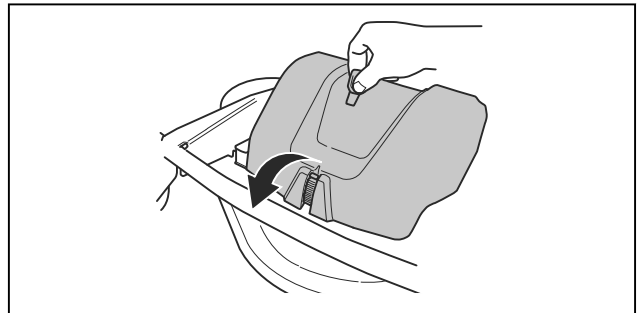
9. Put the drive belt around the tension wheel (B).
10. Put the spring in the spring holder (C).
11. Set the lift lever for the cutting deck in locked position. The cutting deck lifts.



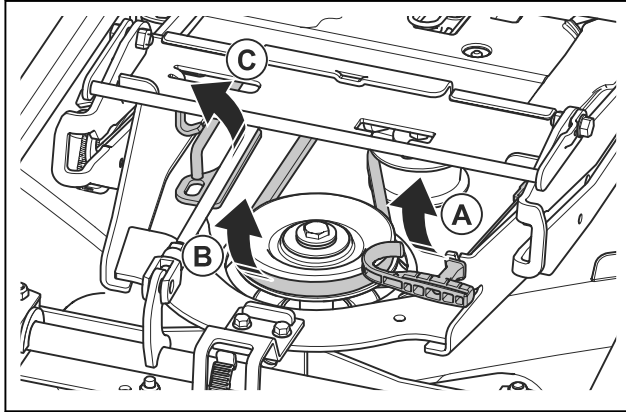
12. Attach the front cover.

To remove the cutting deck

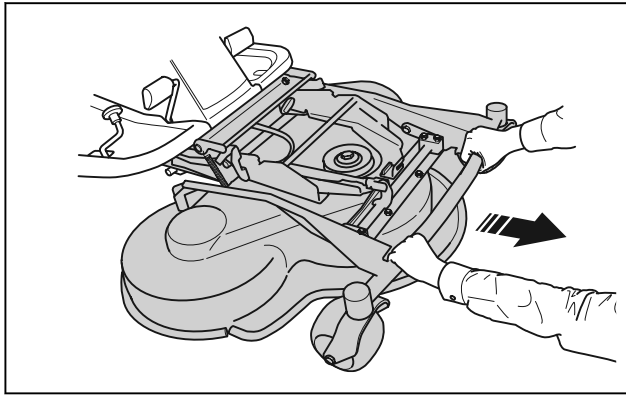
1. Do steps 1–4 in *To attach the cutting deck on page 13*.
2. Release the clip on the front cover with the tool attached to the ignition key, and remove the cover.



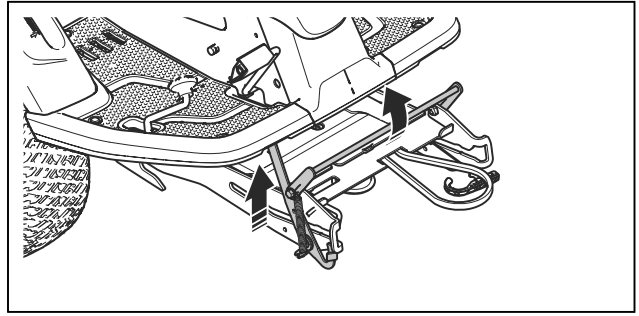
3. Loosen the tension on the tension wheel for the drive belt. (A)



4. Hold the spring handle with your left hand and remove the drive belt with your right hand.
5. Pull the drive belt to the rear below the product. Do not put it in the belt holder (B).
6. Put the spring handle in the spring holder to prevent that the spring falls down.
7. Lift the cutting height stay and put it in the holder for the cutting height stay (C).
8. Hold the front edge of the cutting deck with two hands and pull until it stops.



9. Lift the service lock to vertical position.



WARNING: The lock mechanism can cause injury to fingers if you do not operate it carefully. Hold the front edge of the cutting deck with two hands when you continue to the next step.

10. Lift the front of the cutting deck until the service lock touches the frame and pull the cutting deck out.

Operation

Introduction



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

To start to use Husqvarna Connect

1. Download the Husqvarna Connect app on your mobile device.
2. Register in the Husqvarna Connect app.
3. Do the instruction steps in the Husqvarna Connect app to connect and register the product.

To fill fuel



WARNING: Gasoline is very flammable. Be careful and refuel outdoors, refer to *Fuel safety on page 12*.



WARNING: Do not use the fuel tank as a support area.



CAUTION: Incorrect type of fuel can result in engine damage.

The engine runs on gasoline with a minimum octane rating of 91 RON (87 AKI), not mixed with oil. We recommend biodegradable alkylate gasoline. Do not use gasoline that contains more than 10% ethanol.

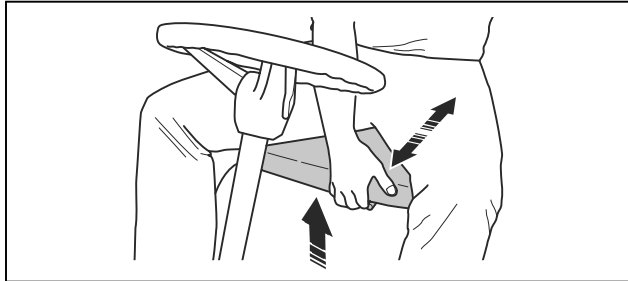
- Do a check of the fuel level before each use and refuel if it is necessary.
- Do not fully fill the fuel tank. Keep a space of a minimum 2.5 cm.

To adjust the seat



WARNING: Do not adjust the seat during operation of the product.

1. To adjust the seat forward and rearward, put your feet on the footrest plates.
2. Push the lever below the front edge of the seat up and move the seat to the correct position.

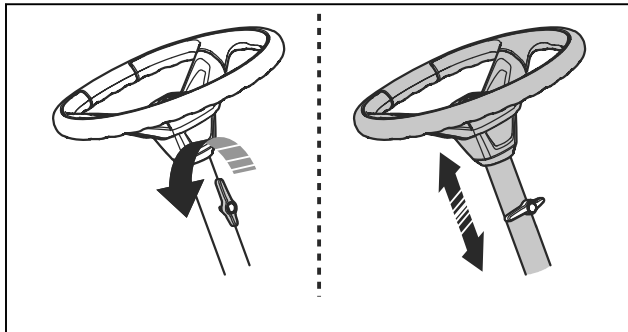


To adjust height of the steering wheel



WARNING: Do not adjust the height of the steering wheel during operation of the product.

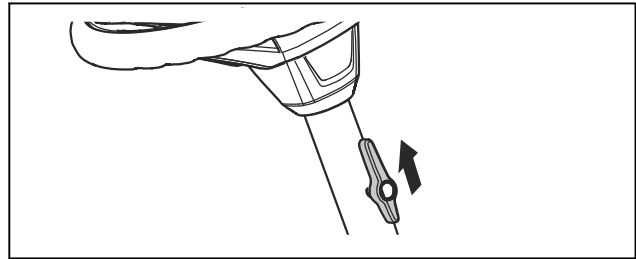
1. Turn the knob counterclockwise to loosen.



2. Adjust the height of the steering wheel.
3. Turn the knob clockwise to tighten.



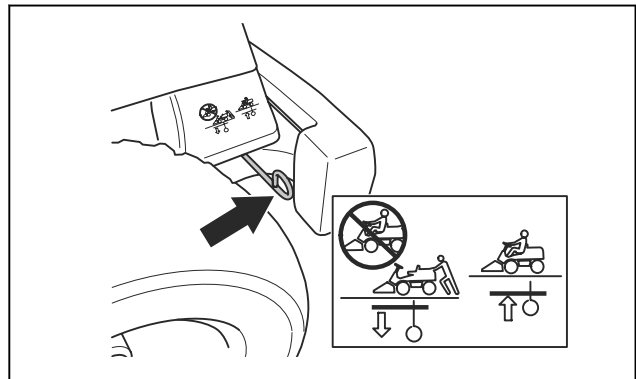
CAUTION: Make sure that the long end of the knob points up.



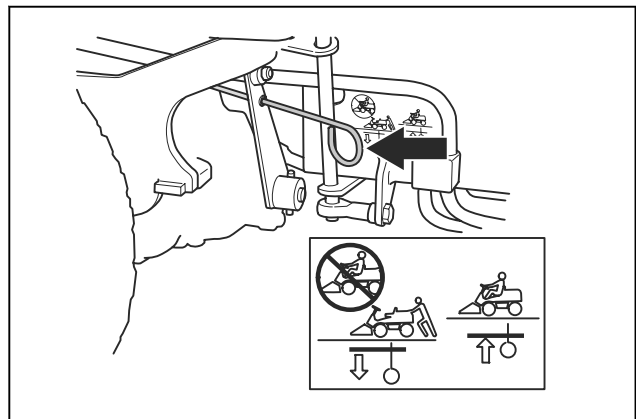
To engage and disengage the drive system

To move the product with the engine off, the drive system must be disengaged. Pull out the drive system lever fully to disengage the drive on the axle. Push the drive system lever in fully to engage the drive on the axle. Do not use middle positions.

The drive system lever for model R 316TX is found behind the left rear wheel. Model R 316TX AWD, R 316TsX AWD has one drive system lever for the front and one for the rear axle. The drive system lever for the rear axle is found behind the left rear wheel.

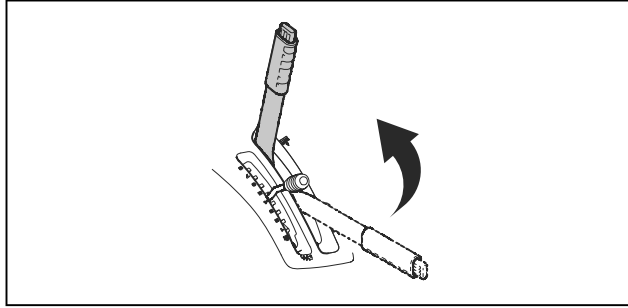


The drive system lever for the front axle for R 316TX AWD, R 316TsX AWD is found behind the left front wheel.

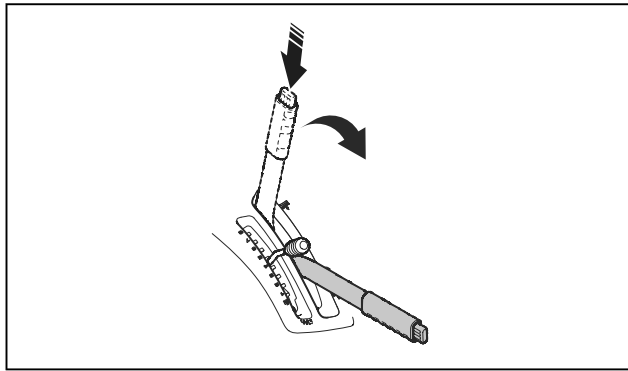


To lift and lower the cutting deck

To lift the cutting deck to transport position, pull the lift lever rearward. If the engine is on, the blades stop to rotate automatically.

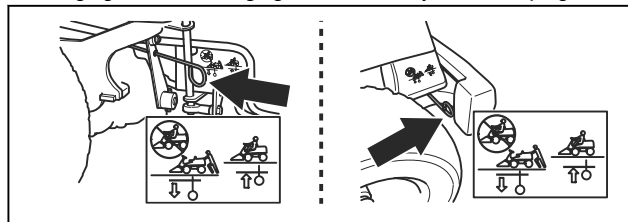


To lower the cutting deck to mowing position, press the lock button and move the lift lever forward. If the engine is running, the blades start to rotate automatically.

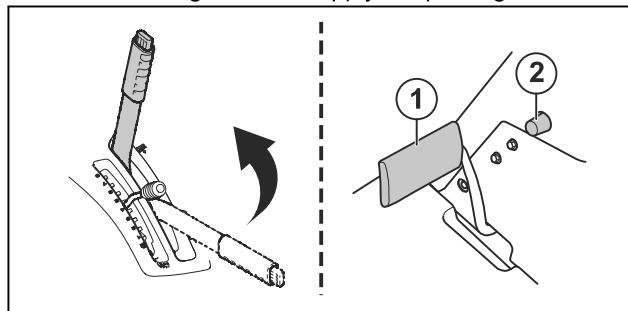


To start the engine

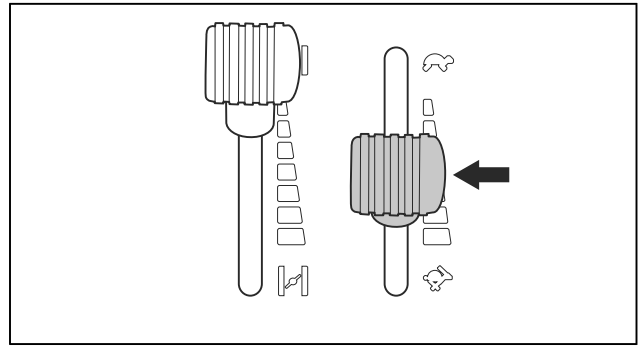
1. Make sure that the drive system is engaged, see *To engage and disengage the drive system on page 16*.



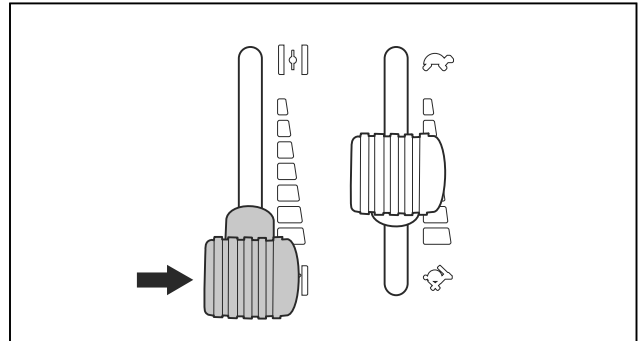
2. Lift the cutting deck and apply the parking brake.



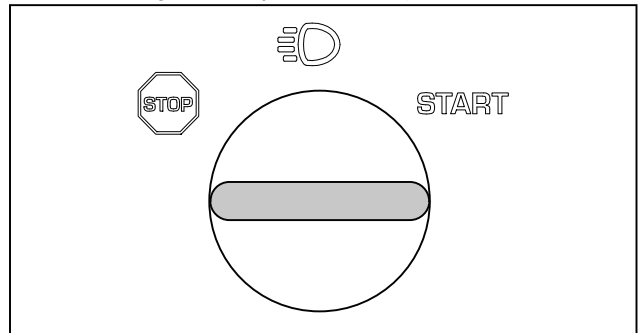
3. Move the throttle control to the middle position.



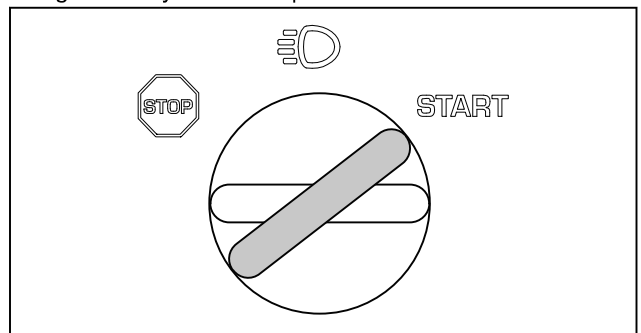
4. If the engine is cold, move the choke control fully rearward.



5. Turn the ignition key to the start position.

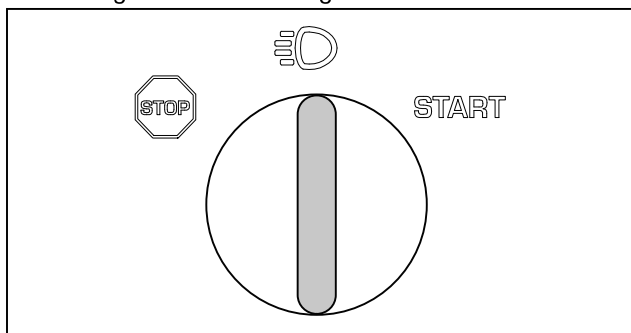


6. When the engine starts, immediately release the ignition key to neutral position.

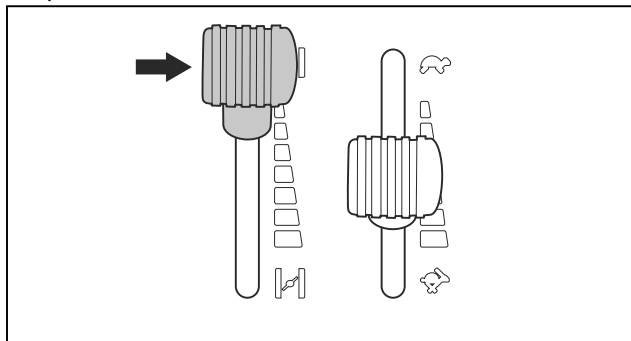


CAUTION: Do not run the starter for more than 5 seconds at a time. If the engine does not start, wait 15 seconds before you try again.

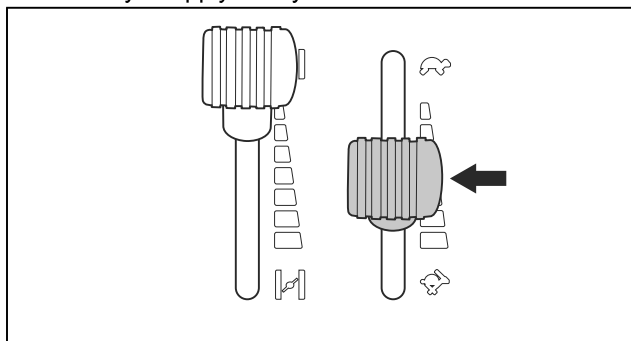
- Turn the key to the lights position to make the headlights and the rear lights come on.



- Push the choke control gradually forward to the end position.



- Let the engine run at half throttle for 3-5 minutes before you apply heavy load.



- Pull the throttle control rearward to full throttle position.

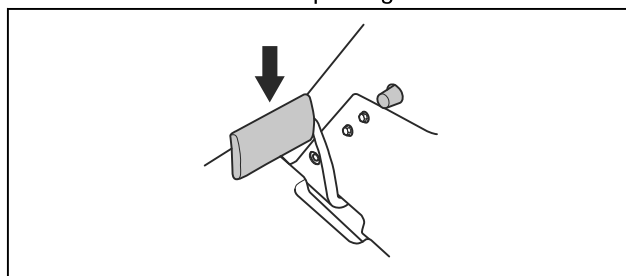


CAUTION: To engage the blades when the engine is at full speed causes strain on the drive belts. Do not apply full throttle until the cutting deck is lowered to the mow position.

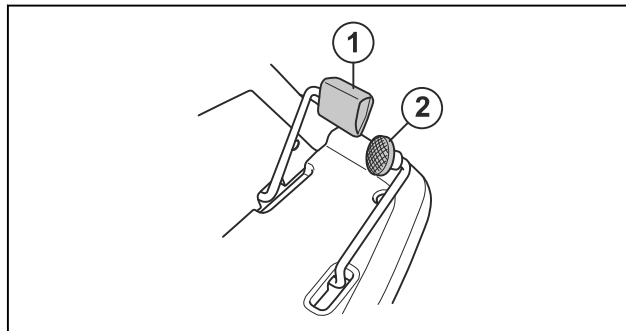
To operate the product

- Start the engine.

- Press the parking brake pedal down and then release it to release the parking brake.

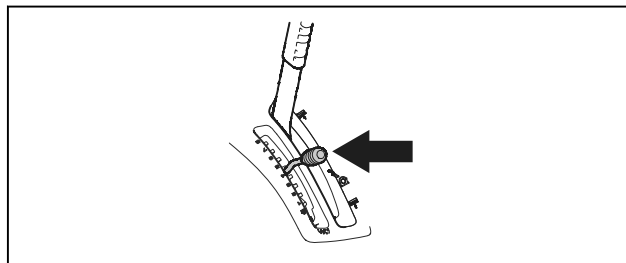


- Carefully press down one of the speed pedals. The speed increases the more the pedal is pressed down. Use pedal (1) to move forward, and pedal (2) to reverse.

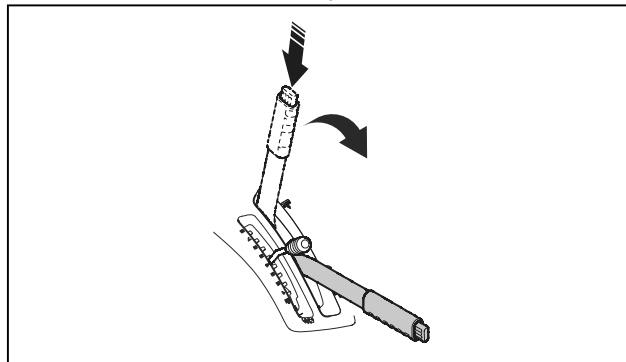


- Release the pedal to brake.

- Select cutting height (1–10) with the cutting height lever.

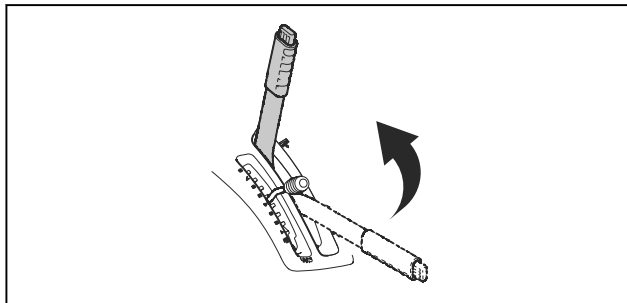


- Press the lock button on the lift lever for the cutting deck and lower it to mow position.

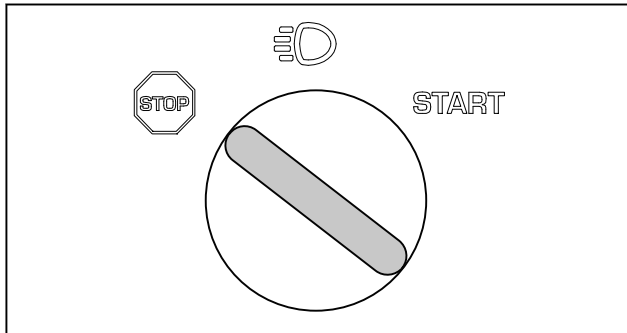


To stop the engine

1. Pull the lift lever for the cutting deck rearward to its locked position to lift up the cutting deck. The blades stop to rotate.



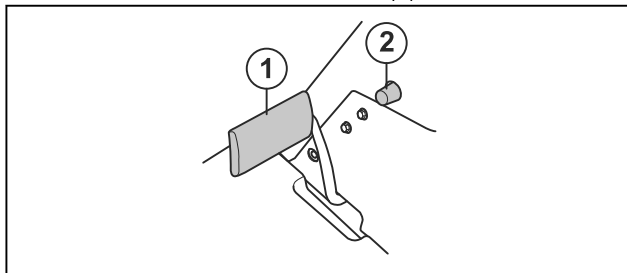
2. Turn the ignition key to the STOP position.



3. When the product stops, apply the parking brake.

To apply and release the parking brake

1. Press the parking brake pedal down (1).
2. Press and hold the lock button (2).



3. Keep the button pressed and release the parking brake pedal.
4. To release the parking brake, press the parking brake pedal again.

To get a good cutting result

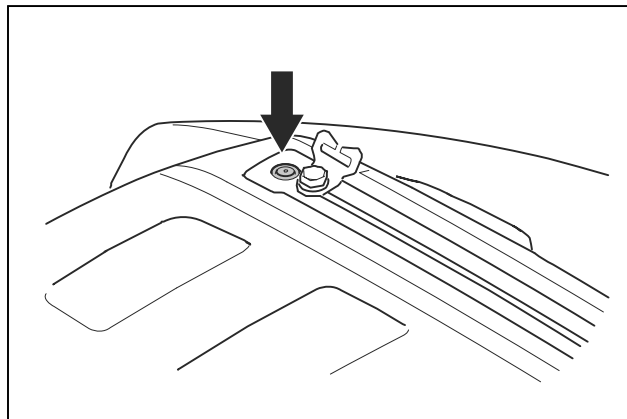
- For best performance, do maintenance on the product regularly as given in the maintenance schedule. Refer to *Maintenance schedule on page 20*.
- Do not cut a wet lawn. Wet grass can give a bad cutting result.
- Start with a high cutting height and decrease it gradually.

- Cut with blades that rotate at high speed (highest permitted engine speed, refer to *Technical data on page 37*). Move the product forward at low speed. If the grass is not too high and thick, you can get a good cutting result also at a higher speed.
- Cut the grass in an irregular pattern.
- To get the best cutting result, cut the grass frequently and use the BioClip function.

To attach load to the engine cover

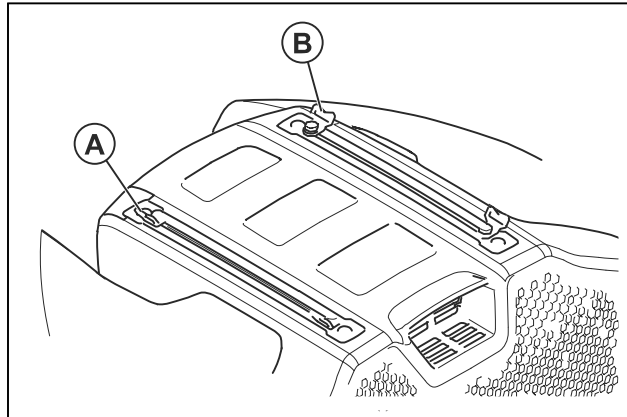
The product has rails and rail brackets on the engine cover to attach load.

1. Adjust the rail brackets to fit the load.
 - a) Loosen the screw and move the rail bracket forward or rearward on the rail.



- b) Tighten the screw.

2. Put a strap through the hole in the rail bracket (A).



3. Put the strap through the rail bracket (B) on the opposite side.
4. Use the rail brackets to attach the load with straps.



CAUTION: Do not overload the rails. Refer to *Technical data on page 37*.

Maintenance

Introduction

Maintenance schedule



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

Operation before use
Make sure that there are no fuel or oil leaks.
Clean the product. Refer to <i>To clean the product on page 22</i> .
Clean the inner surfaces of the cutting deck. Refer to <i>To clean the product on page 22</i> .
Clean the engine and the muffler. Refer to <i>To clean the engine and the muffler on page 22</i> .
Make sure that the cold air intake of the engine is not blocked. Refer to <i>To clean the cold air intake of the engine on page 22</i> .
Make sure that the safety devices are not damaged Refer to <i>Safety devices on the product on page 10</i> .
Examine the blades in the cutting deck. Refer to <i>To examine the blades on page 29</i> .
Examine and do a test of the brakes. Refer to <i>To do a check of the parking brake on page 23</i> and <i>To do a check of the forward drive pedal and rearward drive pedal on page 10</i> .
Do a check of the engine oil level. Refer to <i>To do a check of the engine oil level on page 29</i> .
Do a check of the transmission oil level. Refer to <i>To do a check of the transmission oil level on page 31</i> .
Do a check of the steering wires. Refer to <i>To examine the steering wires on page 23</i> .
Make sure that the high beam light and the work light operates correctly (if applicable). Refer to <i>Headlights and rear lights on page 4</i> .

X = The instructions are given in this operator's manual.

O = The instructions are not given in this operator's manual. Let an approved Husqvarna servicing dealer do the maintenance.

Maintenance	First servicing	Maintenance interval in hours	
	50	100	200
Do a check of and clean hydraulic hoses and couplings. Replace if necessary.		O	
Do a check of the belts and pulleys.	O	O	
Do a check of the steering chain of the inner side of the frame tunnel.		O	
Do an inspection, lubricate and adjust all wires.		O	
Make sure that the tire pressure is correct. Refer to <i>Tire pressure on page 26</i> .	X	X	
Make sure that all screws and nuts are tightened with the correct torque.		O	
Lubricate the operators seat.		O	
Lubricate all chains.		O	
Lubricate the wheels and blade bearings on the cutting deck (if applicable).	O	O	

Maintenance	First servicing	Maintenance interval in hours	
	50	100	200
Lubricate the pedals on the inner side of the frame tunnel.		O	
Lubricate the belt tensioners		O	
Remove the drive wheels and lubricate the axels (for 200-300 series only)		O	
Do a check of the fuel hose. Replace if necessary.		O	
Replace the fuel filter. Refer to <i>To replace the fuel filter on page 24.</i>		X	
Clean the air filter. Refer to <i>To clean and change the air filter on page 24.</i>	X		
Replace the air filter. Refer to <i>To clean and change the air filter on page 24.</i>		X	
Do an inspection of the cooling fins on the hydrostatic transmission.		O	
Clean the engine and the hydrostatic transmission.		O	
Do a check of the muffler and the heat deflector.	O	O	
Replace the engine oil. Refer to <i>To replace the engine oil and the oil filter on page 30.</i>	X ¹	X ²	
Replace the engine oil filter. Refer to <i>To replace the engine oil and the oil filter on page 30.</i>	X ³	X ⁴	
Replace the spark plug. Refer to <i>To examine and replace a spark plug on page 24.</i>		X	
Do a check on the lights (if applicable). Refer to <i>Headlights and rear lights on page 4.</i>	X	X	
Update the firmware (if applicable).	O	O	
Do a check of the battery and charge if it is necessary. Refer to <i>To charge the battery on page 25.</i>	X	X	
Do an inspection of and adjust the front and rear wheel rotation speed (for AWD models only).	O	O	
Replace the transmission filter (for AWD models only).	O		O
Replace the spin on filter for the servo (if applicable).	O		O
Do a check of the cooling fan on the hydrostatic transmission.	O	O	
Do a check of the oil in the transmission and fill if it is necessary. Refer to <i>To do a check of the transmission oil level on page 31.</i>		X	
Replace the oil in the transmission.	O		O
Examine and adjust the parking brake.	O	O	
Clean the outer and inner surfaces of the cutting deck and the cutting deck covers. Refer to <i>To clean the product on page 22.</i>	X	X	

1

50 hours or one year (first service only).

2

100 hours or one time each year.

3

50 hours or one year (first service only).

4

100 hours or one time each year.

Maintenance	First servicing	Maintenance interval in hours	
	50	100	200
Do a check of and adjust the cutting height and pitch setting. Refer to <i>To examine and adjust the ground pressure from the cutting deck on page 27</i> .	X	X	
Examine the blades in the cutting deck. Sharpen or replace if necessary. Refer to <i>To examine the blades on page 29</i> and <i>To replace the blades on page 29</i> .		X	
Do a check of and adjust the engine RPM.	O	O	
Make sure that the product does not move in neutral position. Refer to <i>To do a check of the forward drive pedal and rearward drive pedal on page 10</i> .	X	X	
Do a check of the forward drive and the rearward drive on different speeds.	O	O	
Do a check of the blade engagement, seat, lift and forward drive/brake. Refer to <i>Safety on page 8</i> .	X	X	
Do an inspection of the collection system (for collection models only).	X	X	

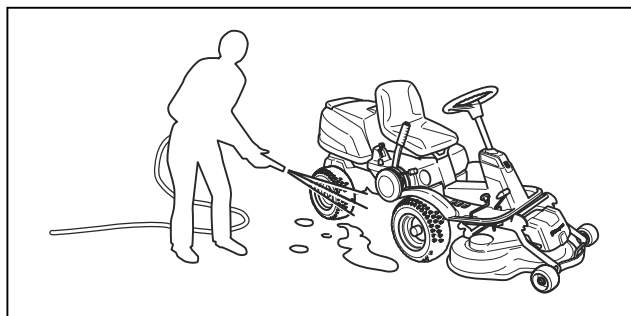
To clean the product



CAUTION: Do not use a high-pressure washer or a steam cleaner. Water can go into bearings and electrical connections and cause corrosion which causes damage to the product.

Clean the product immediately after use.

- Do not clean hot surfaces such as the engine, muffler and exhaust system. Wait until the surfaces are cool, then remove the grass or dirt.
- Before you clean with water, clean with a brush. Remove grass cuttings and dirt on and around the transmission, the transmission air intake, and the engine.
- Use running water from a hose to clean the product. Do not use high pressure.
- Do not point the water at electrical components or bearings. Detergent usually increases the damage.
- To clean the cutting deck, put it in the servicing position and clean it with a water hose.
- When the product is clean, start the cutting deck for a short period to blow off remaining water.



To clean the engine and the muffler

Keep the engine and muffler free from grass cuttings and dirt. Grass cuttings soaked in fuel or oil on the engine can increase the fire risk and the risk that the engine becomes too hot. Let the engine cool before it is cleaned. Clean with water and a brush.

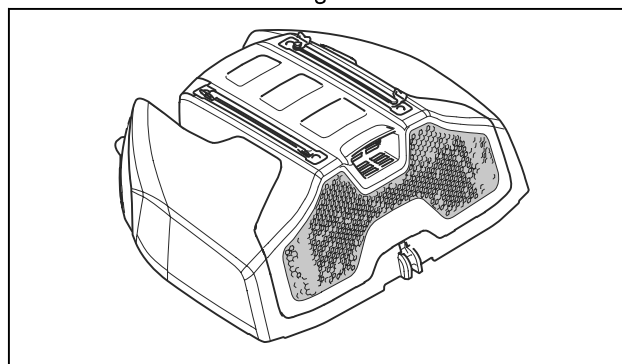
Grass cuttings around the muffler dry quickly and are a fire risk. Use a brush or remove the grass cuttings with water when the muffler is cold.

To clean the cold air intake of the engine

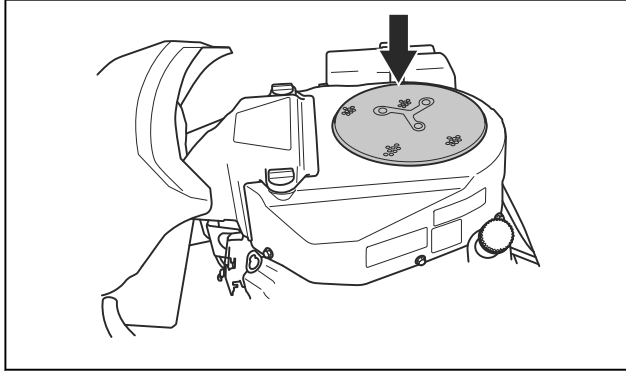


WARNING: Stop the engine. The cold air intake rotates and can cause injury to your fingers.

- Make sure that the intake grille on the engine cover is not blocked. Remove grass and dirt with a brush.



- Open the engine cover. Make sure that the engine cold air intake is not blocked. Remove grass and dirt with a brush.

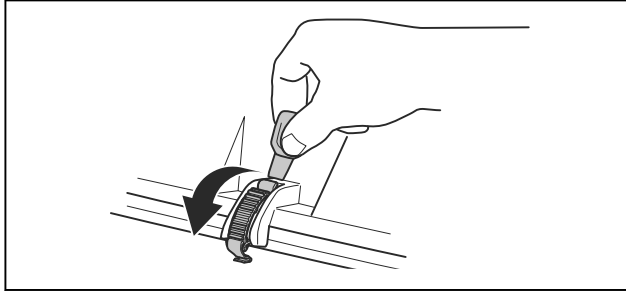


- Examine the air duct, found on the inner surface of the engine cover. Make sure that the air duct is clean and does not rub against the cold air intake.

To remove the covers

To open the engine cover

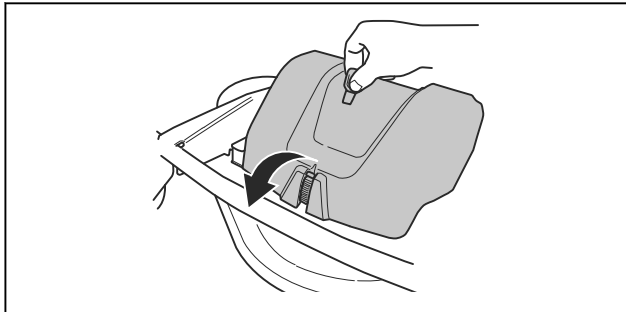
1. Fold the seat forward.
2. Release the clip on the engine cover with the tool attached to the ignition key.



3. Fold the engine cover rearward.

To remove the front cover

1. Release the clip on the front cover with the tool attached to the ignition key.

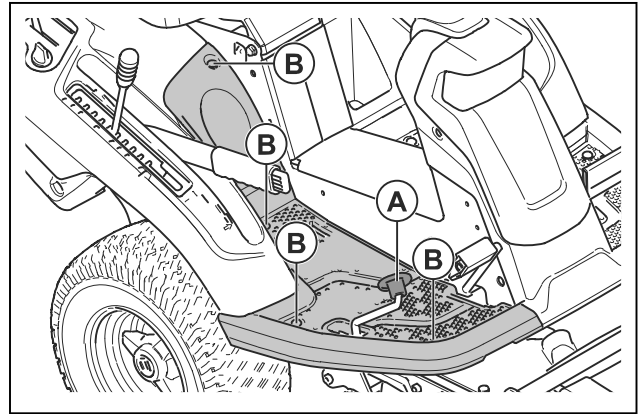


2. Lift off the front cover.

To remove the right footrest plate

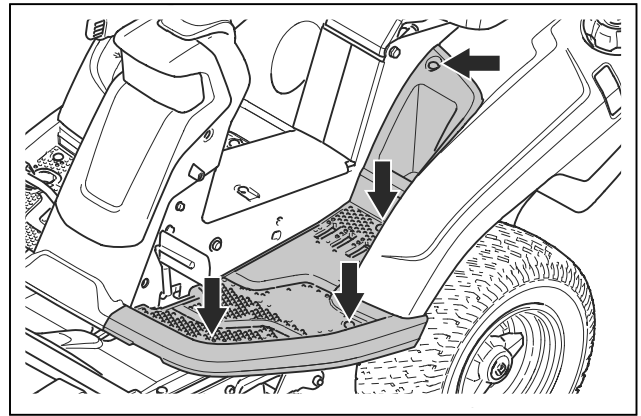
1. Turn the knob on the reverse pedal (A) to remove it.

2. Remove the 3 screws (B) and remove the footrest plate.



To remove the left footrest plate

- Remove the 4 screws and remove the footrest plate.

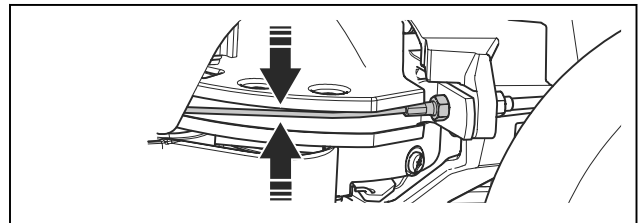


To examine the steering wires

The tension of the steering wires can decrease after a period of time. This causes the adjustment of the steering to change.

Examine and adjust the steering as follows:

1. The steering wires are correctly tightened if you can manually move them 5 mm up or down in the groove on the steering collar.



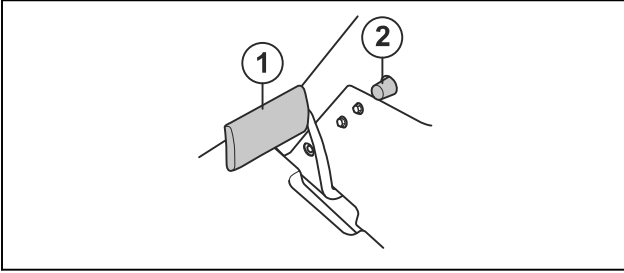
2. If the wires are too loose, let an Husqvarna servicing dealer adjust them.

To do a check of the parking brake

1. Park the product on a hard surface that slopes maximum 10°.

Note: Do not park the product on a grass slope when you do a check of the parking brake.

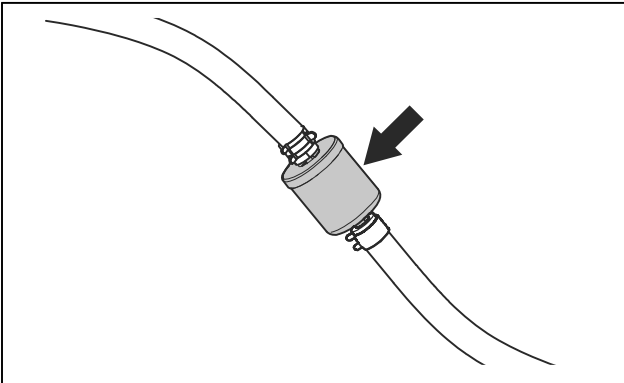
2. Press the parking brake pedal down (1).
3. Press and hold the lock button (2) and release the parking brake pedal while the button is pressed.



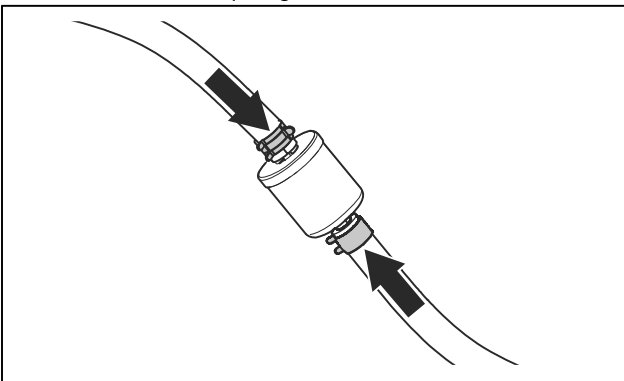
4. If the product starts to move, let an Husqvarna servicing dealer adjust the parking brake.
5. Press the parking brake pedal again to release the parking brake.

To replace the fuel filter

1. Open the engine cover to get access to the fuel filter.
2. Compress the fuel tank hose to prevent leakage.
3. Move the hose clips away from the fuel filter with a pair of flat pliers.
4. Pull off the fuel filter from the hose ends. A small quantity of fuel can leak.



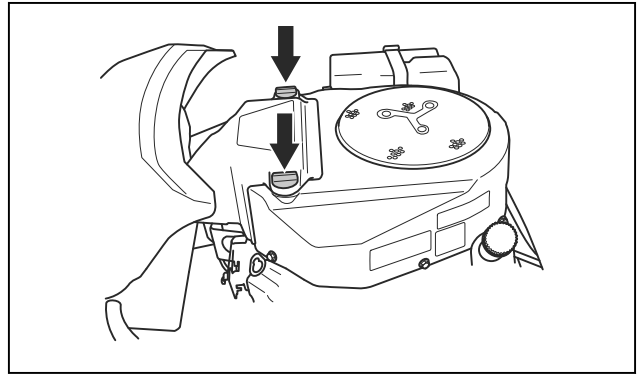
5. Push the new fuel filter into the ends of the hoses. Apply liquid detergent to the ends of the fuel filter to make the connection easier.
6. Push the hose clips against the fuel filter.



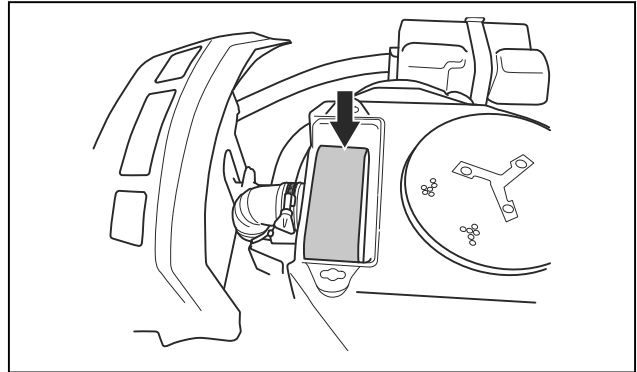
To clean and change the air filter

1. Open the engine cover.

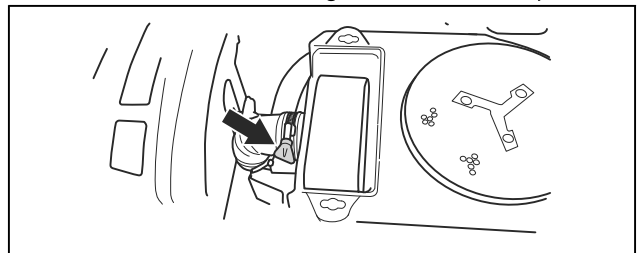
2. Loosen the 2 knobs that hold the air filter cover and remove it.



3. Loosen the hose clip that holds the air filter cartridge.
4. Remove the air filter cartridge from the filter housing.



5. Remove the foam rubber filter around the air filter cartridge.
6. Clean the foam rubber filter with a weak detergent.
7. Let the foam rubber filter become fully dry.
8. Hit the paper filter against a hard surface to clean it. Do not use compressed air.
9. If the paper filter does not become clean, replace it.
10. Put the foam rubber filter back around the air filter cartridge.
11. Put the air filter cartridge on the air hose.
12. Attach the air filter cartridge with the hose clip.

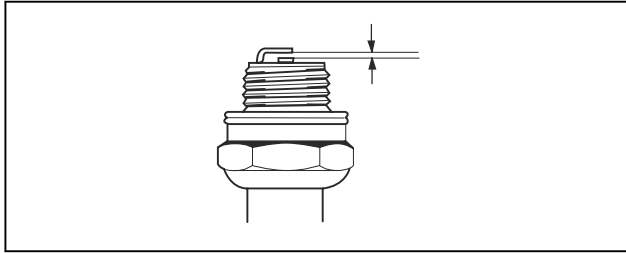


13. Attach the air filter cover and tighten the knobs.

To examine and replace a spark plug

1. Open the engine cover.
2. Remove the spark plug cap and clean around the spark plug.
3. Remove the spark plug with a spark plug wrench.

4. Examine the spark plug. Replace it if the electrodes are burned or if the insulation has cracks or damages. If the spark plug is not damaged, clean it with a steel brush.
5. Measure the electrode gap and make sure that it is correct. Refer to *Technical data on page 37*.



6. Bend the side electrode to adjust the electrode gap.
7. Put the spark plug back in and turn it by hand until it touches the spark plug seat.
8. Tighten the spark plug with the spark plug wrench until the washer is compressed.
9. Tighten a used spark plug $\frac{1}{8}$ of a turn more, and a new spark plug $\frac{1}{4}$ turn more.



CAUTION: Spark plugs that are not tightened correctly can cause damage to the engine.

10. Attach the spark plug cap.

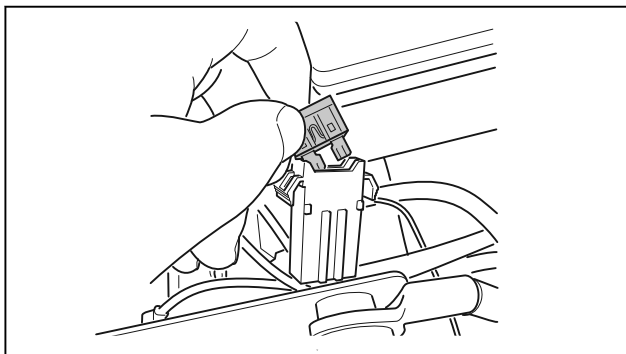


CAUTION: Do not try to start the engine if the spark plug or ignition cable is removed.

To replace the main fuse

A blown fuse is identified by a burned connector.

1. Open the engine cover. The main fuse is in a holder in between the battery and the engine.
2. Pull the fuse from the holder.



3. Replace the blown fuse with a new fuse of the same type, flat pin 20 A.
4. Replace the covers.

If the main fuse blows again a short period after you replace it, there is a short circuit. Repair the short circuit before you operate the product again. Let an approved service agent help you.

To charge the battery



WARNING: Read the safety chapter before you charge the battery. Refer to *Battery safety on page 12*.

- Charge the battery if it is too weak to start the engine.
- Use a standard battery charger.
- Always disconnect the charger before starting the engine.

To replace the battery

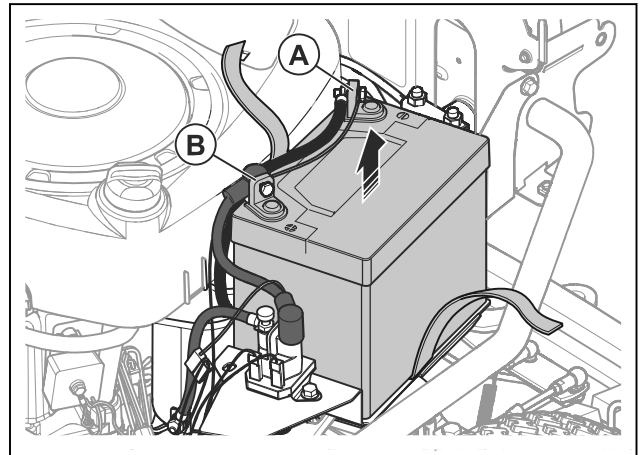


WARNING: Read the safety chapter before you charge the battery. Refer to *Battery safety on page 12*.



CAUTION: Always fully charge the battery before you install it in the product.

1. Remove the engine cover. Refer to *To open the engine cover on page 23*
2. Disconnect the ground terminal (A) and then the positive terminal (B) on the battery.



WARNING: Risk of sparks. Refer to *Battery safety on page 12*

3. Loosen the strap that holds the battery.
4. Lift the battery and remove it from the product.
5. Clean the terminals on the new battery.
6. Install the new battery.
7. Tighten the strap around the battery.
8. Connect the positive cable to the positive terminal on the battery.
9. Connect the ground cable to the ground terminal on the battery.

To do an emergency start of the engine

If the battery is too weak to start the engine, you can use jumper cables to do an emergency start. This product has a 12 V system with negative ground. The product that is used for the emergency start must also have a 12 V system with negative ground.



CAUTION: Do not use a boost charger or start booster. That will cause damage to the electrical system of the product.

To connect the jumper cables

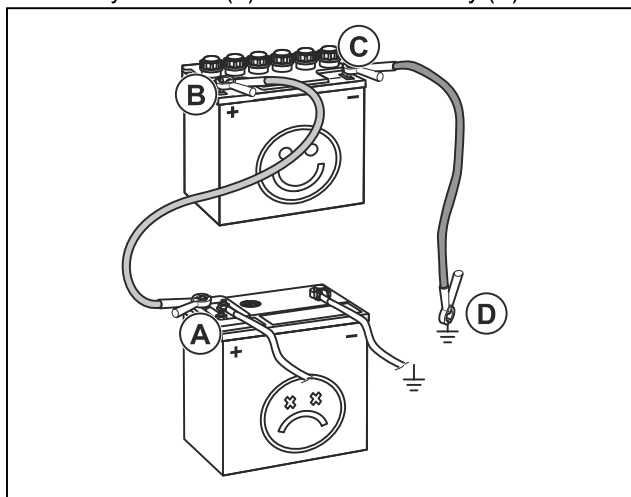


WARNING: Risk of explosion because of explosive gas that comes from the battery. Do not connect the negative terminal of the fully charged battery to or near the negative terminal of the weak battery.



CAUTION: Do not use the battery of your product to start other vehicles.

1. Remove the engine cover.
2. Remove the cover for the battery case.
3. Connect one end of the red cable to the POSITIVE battery terminal (+) on the weak battery (A).



4. Connect the other end of the red cable to the POSITIVE battery terminal (+) on the fully charged battery (B).



WARNING: Do not short circuit the ends of the red cable against the chassis.

5. Connect one end of the black cable to the NEGATIVE battery terminal (-) on the fully charged battery (C).

6. Connect the other end of the black cable to a CHASSIS GROUND (D), away from the fuel tank and the battery.
7. Replace the covers.

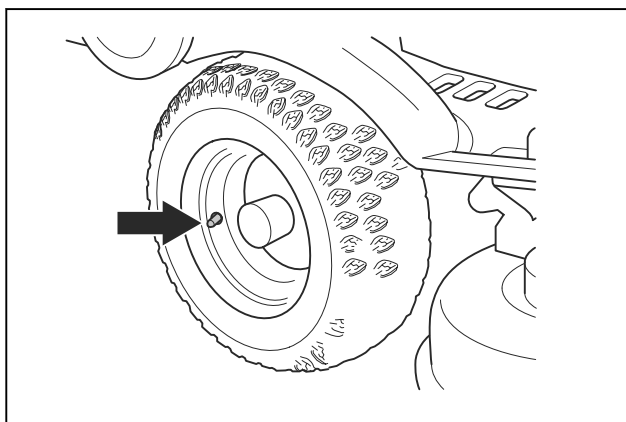
To remove the jumper cables

Note: Remove the jumper cables in the opposite sequence to how you connect them.

1. Remove the BLACK cable from the chassis.
2. Remove the BLACK cable from the fully charged battery.
3. Remove the RED cable from the 2 batteries.

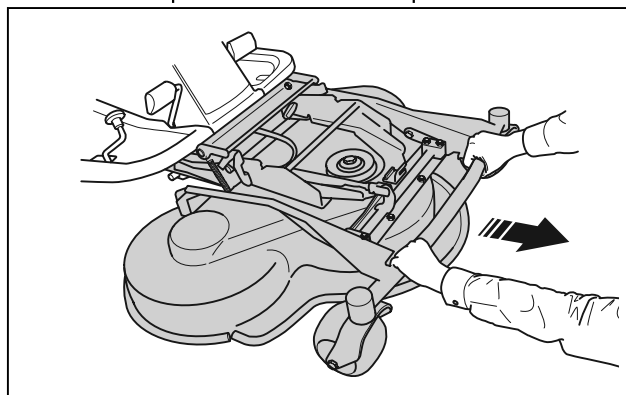
Tire pressure

The correct tire pressure is 60 kPa (0.6 bar / 8.5 PSI) on all 4 tires.

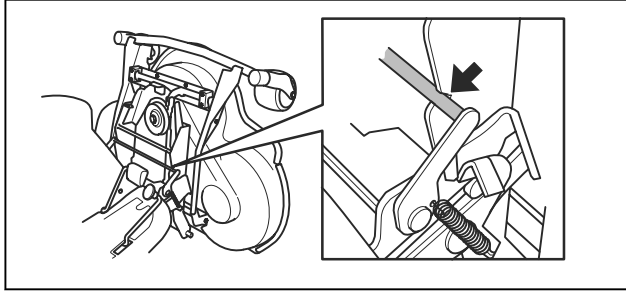


To put the cutting deck in servicing position

1. See steps 1–8 in *To remove the cutting deck on page 14*.
2. Hold the front edge of the cutting deck with two hands and pull forward until it stops.

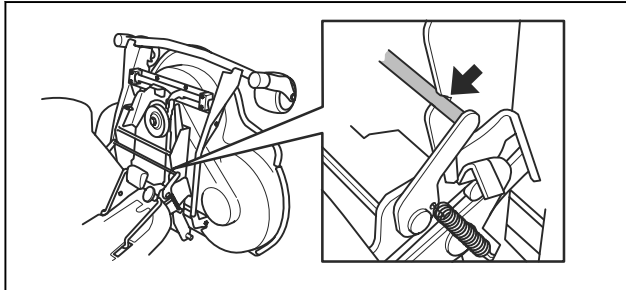


3. Lift the cutting deck to vertical position until a click sound is heard. The cutting deck is locked automatically in the vertical position.



To put the cutting deck in mow position

1. Hold the front edge of the cutting deck with your left hand.
2. Loosen the lock with your right hand.

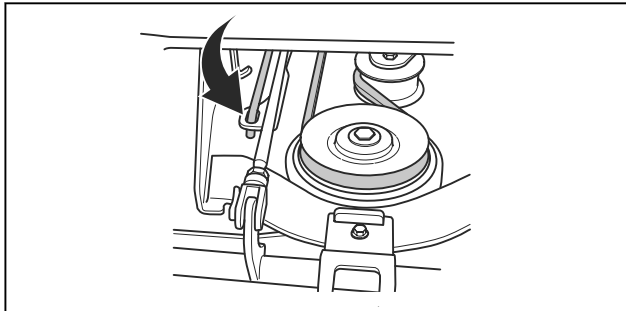


3. Fold down the cutting deck and push it in until it stops.

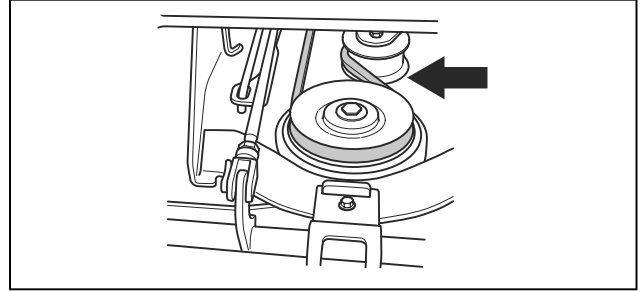


CAUTION: The drive belt can get caught below the cutting deck. Pull on the drive belt loop in the belt holder before you push the cutting deck in.

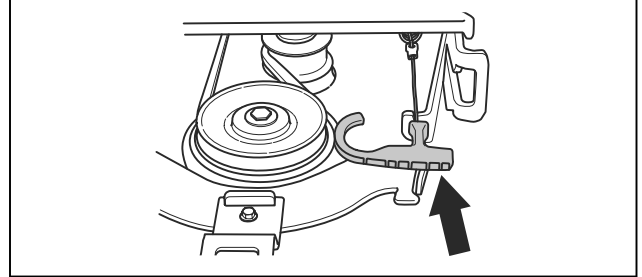
4. Lift the cutting height stay from the stay holder and put it in the hole.



5. Put the drive belt around the drive wheels. Make sure that the drive belt is on the correct side of the tension wheel.



6. Put the spring in the spring holder.

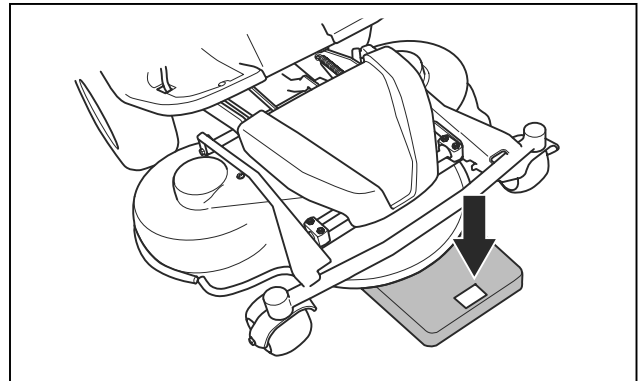


7. Attach the front cover.
8. Set the cutting height lever in one of the positions 1–10.

To examine and adjust the ground pressure from the cutting deck

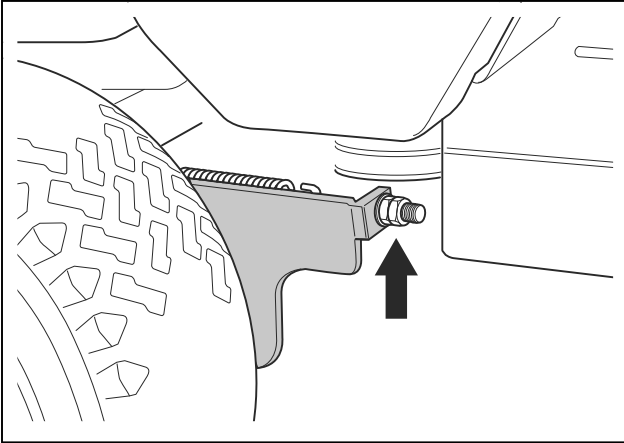
A correct ground pressure makes sure that the cutting deck moves along the surface but does not press too hard against it.

1. Make sure that the air pressure in the tires is 60 kPa (0.6 bar / 9.0 PSI).
2. Park the product on a level surface.
3. Lower the cutting deck to mow position.
4. Put a bathroom scale below the front edge of the cutting deck.



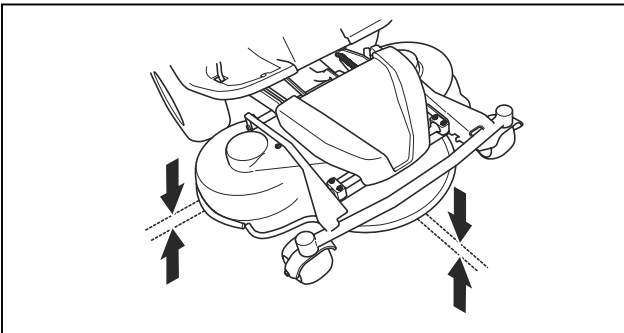
5. To make sure that no weight is applied on the support wheels, put a wooden block between the frame and the bathroom scale.
6. To adjust the ground pressure, turn the adjustment screws found behind the front wheels on the right and left sides.

- Turn the screws right or left until the ground pressure is between 12 and 15 kg (26.5-33 lb).



To do a check of the parallelism of the cutting deck

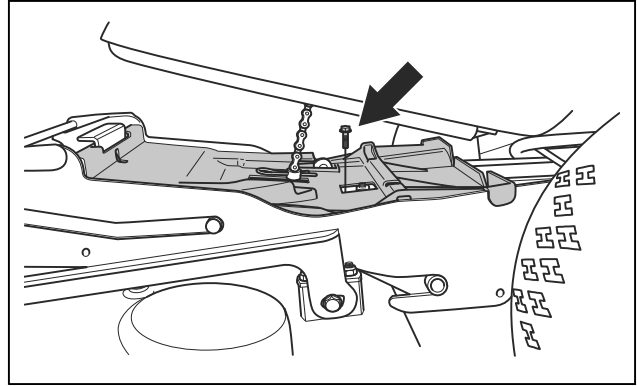
- Make sure that the air pressure in the tires is correct. Refer to *Technical data on page 37*.
- Park the product on a level surface.
- Lower the cutting deck to mow position.
- Set the cutting height lever to the servicing position.
- Measure the distance between the ground and the front and rear edges of the cutting deck. Make sure that the rear edge is 4–6 mm (1/5") higher than the front edge.



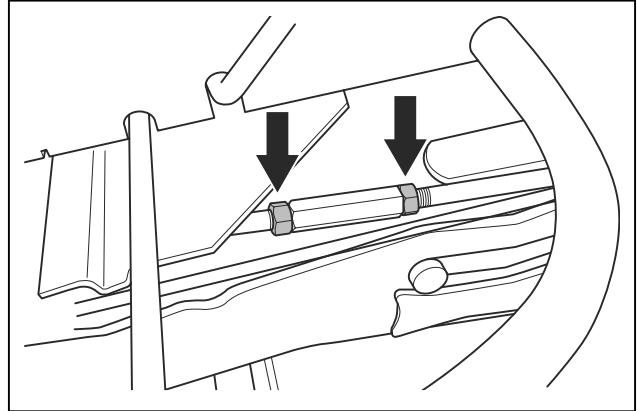
To adjust the parallelism of the cutting deck

- Remove the front cover and the right footrest plate.

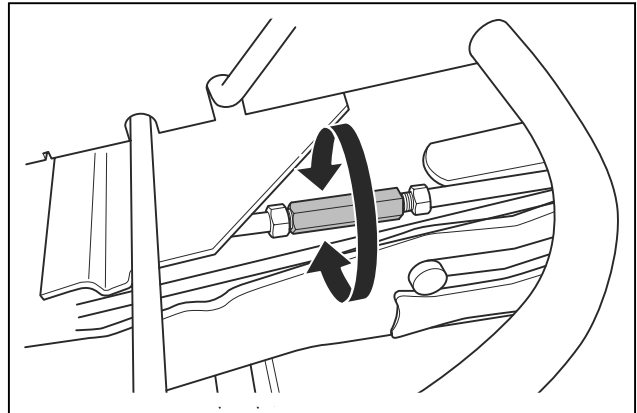
- Remove the screws that hold the belt shield and remove the belt shield.



- Loosen the nuts on the lift strut.



- Turn the lift strut to extend the stay or make it shorter. Extend the stay to lift the rear edge of the cover. Make the stay shorter to lower the rear edge of the cover.



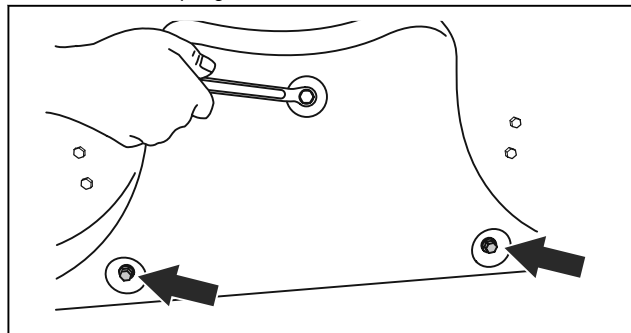
- Tighten the nuts on the lift strut when the adjustment is done.
- Do a check of the parallelism. Refer to *To do a check of the parallelism of the cutting deck on page 28*.
- Attach the belt shield and tighten the screws.
- Attach the right footrest plate and the front cover.

To remove the BioClip plug

- Remove the BioClip plug to change a Combi cutting deck from BioClip to rear discharge of the grass.

To remove and attach the BioClip plug on cutting deck Combi 103 and 112

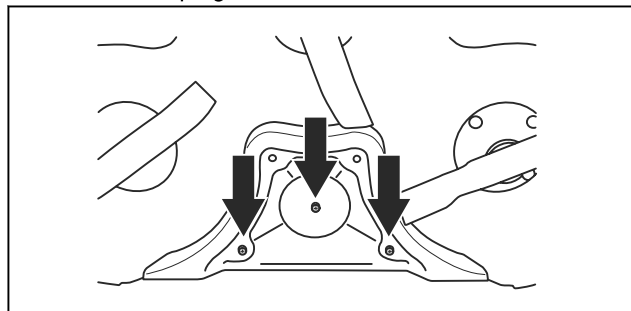
1. Put the cutting deck in servicing position.
2. Remove the 3 screws that hold the BioClip plug and remove the plug.



3. Attach 3 M8x15 mm screws in the screw holes for the BioClip plug to prevent damage to the threads.
4. Put the cutting deck back in mow position.
5. Attach the BioClip plug in the opposite sequence.

To remove and attach the BioClip plug on cutting deck Combi 94

1. Put the cutting deck in servicing position.
2. Remove the 3 screws that hold the BioClip plug and remove the plug.



3. Put the cutting deck back in mow position.
4. Attach the BioClip plug in the opposite sequence.

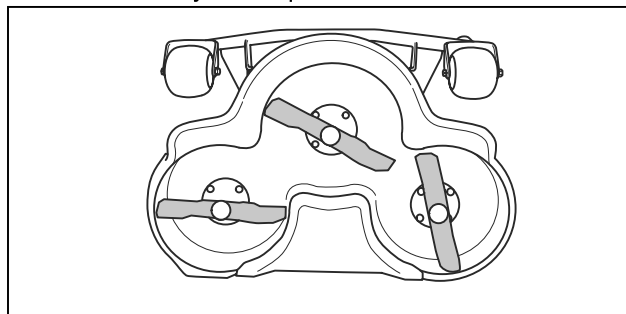
To examine the blades



CAUTION: Damaged or incorrectly balanced blades can cause damage to the product. Replace damaged blades. Let an Husqvarna servicing dealer help you sharpen and balance blunt blades.

1. Put the cutting deck in servicing position.

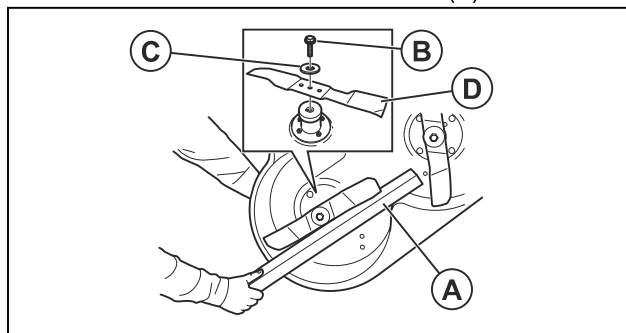
2. Look at the blades to see if they are damaged and if it is necessary to sharpen them.



3. Tighten the blade bolts with tightening torque 45–50 Nm.

To replace the blades

1. Put the cutting deck in servicing position.
2. Lock the blade with a wooden block (A).



3. Loosen and remove the blade bolt (B), the washers (C) and the blade (D).
4. Assemble the new blade with the ends that have an angle in the direction of the cutting deck.



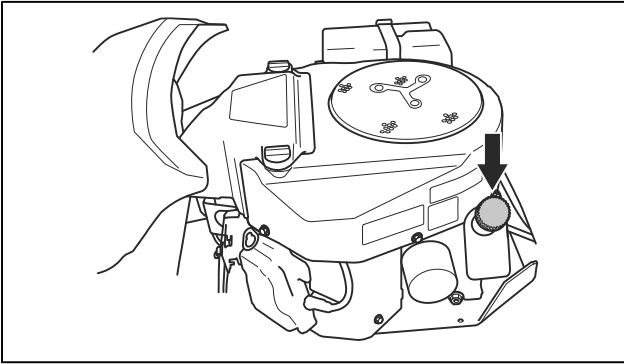
WARNING: Incorrect blade type can cause objects to eject from the cutting deck and cause serious injury. Use only the blades given in *Technical data on page 37*.

5. Attach the blade, the washer and the bolt. Tighten the bolt with a torque of 45–50 Nm.

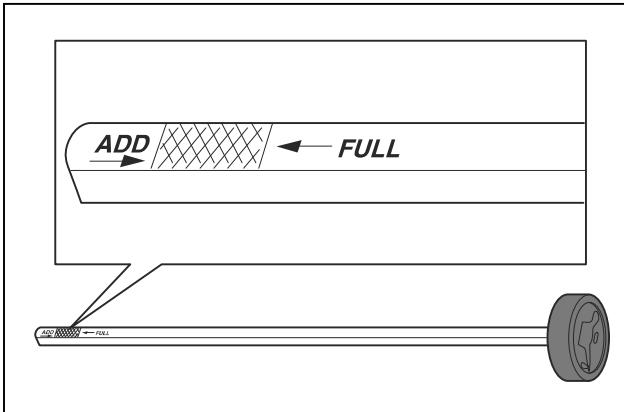
To do a check of the engine oil level

1. Park the product on level ground and stop the engine.
2. Open the engine cover.

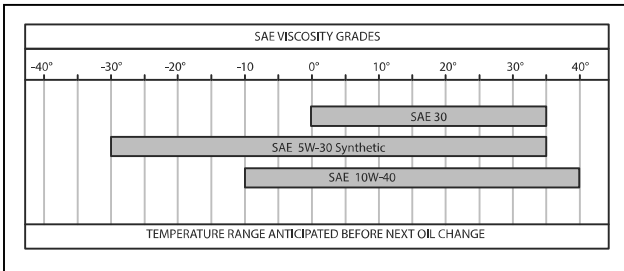
3. Loosen the dipstick and pull it out.



4. Clean the oil from the dipstick.
5. Put the dipstick back in. Do not tighten it.
6. Loosen and pull the dipstick out and read the oil level.
7. The oil level must be between the marks on the dipstick. If the level is near the ADD mark, fill oil to the FULL mark.



8. Fill the oil through the hole that the dipstick sits in. Fill the oil slowly.



Note: Refer to *Technical data on page 37* for the types of engine oil that we recommend.

9. Tighten the dipstick correctly before you start the engine. Start and idle the engine for approximately 30 seconds. Stop the engine. Wait 30 seconds and do a check of the oil level again.

To replace the engine oil and the oil filter

If the engine is cold, start the engine for 1–2 minutes before you drain the engine oil. This makes the engine oil warm and easier to drain.

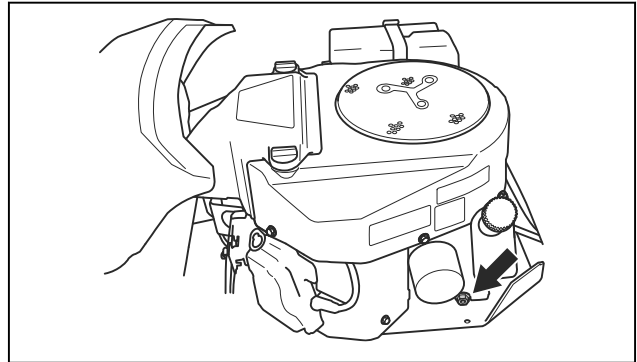


WARNING: Do not operate the engine for more than 1–2 minutes before you drain the engine oil. The engine oil becomes very hot and can cause burn injuries. Let the engine become cool before you drain the engine oil.

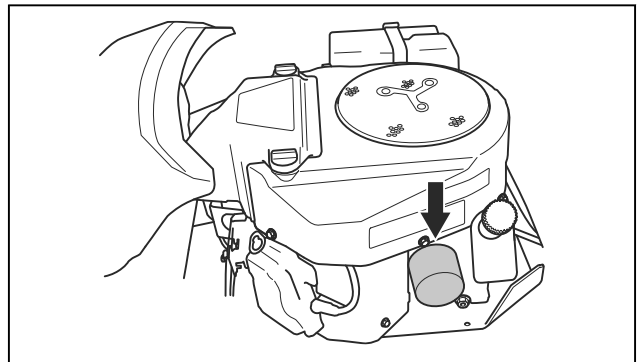


WARNING: If you spill engine oil on your body, clean with soap and water.

1. Put a container below the oil drain plug on the left side of the engine.
2. Remove the dipstick.
3. Remove the oil drain plug.

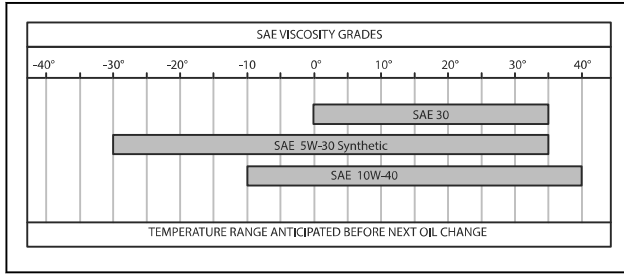


4. Let the oil run out into the container.
5. Attach the oil drain plug and tighten it.
6. Turn the oil filter counterclockwise to remove it.



7. Lightly lubricate the rubber seal on the new oil filter with new oil.
8. To attach the oil filter, turn it clockwise by hand until the rubber seal is in position, then tighten a half turn more.

- Fill the oil through the hole that the dipstick sits in. Fill the oil slowly.

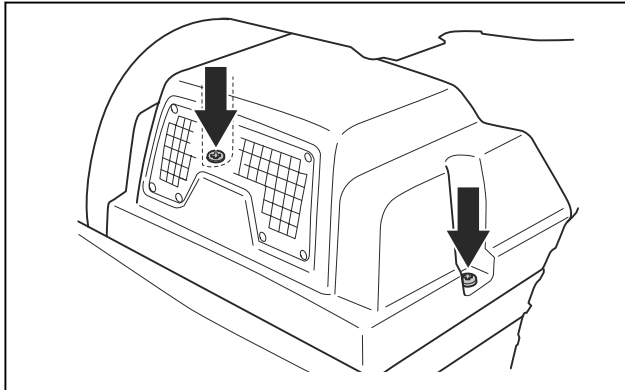


Note: Refer to *Technical data on page 37* for the types of engine oil that we recommend.

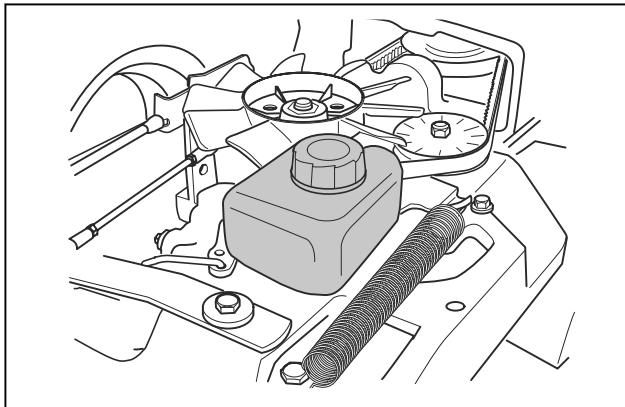
- Start the engine and let it idle for 3 minutes.
- Stop the engine and make sure that the oil filter does not leak.
- Fill with oil to compensate for the oil held in the new oil filter.

To do a check of the transmission oil level

- Remove the two screws, one on each side, and lift off the transmission cover.



- Make sure that the oil level in the transmission oil tank is between the two horizontal lines on the tank.



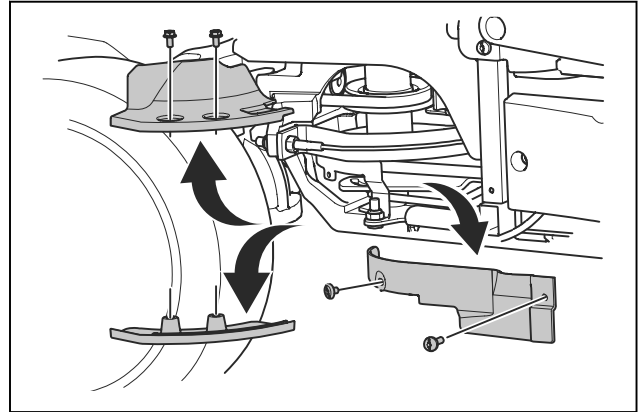
- Fill with engine oil if the oil level is below the lower line, but do not fill above the top line.

Note: Refer to *Technical data on page 37* for recommended oil for R 316TX and R 316TX AWD, R 316TsX AWD.

To lubricate the belt adjuster

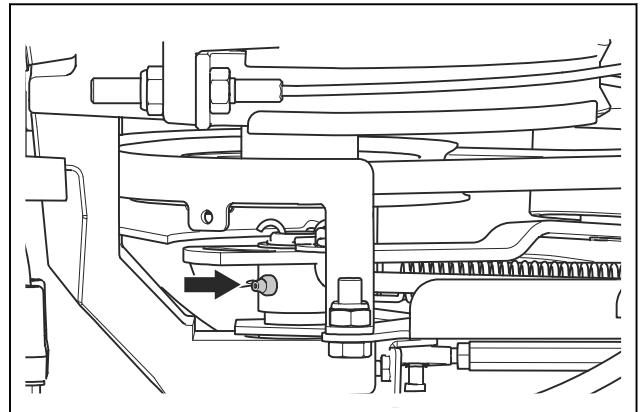
The belt adjuster must be lubricated regularly with a good quality molybdenum disulphide grease.

- Remove the engine pulley covers.



CAUTION: Do not mix the screws. The front screws of the engine pulley covers are longer than the rear screws of the engine pulley covers. A long screw in the incorrect position can cause damage to the product.

- Lubricate with a grease gun through the nipple at the right side, below the lower belt pulley. Lubricate until grease is pushed out of the rear side of the nipple.



- Install the engine pulley covers.

Troubleshooting

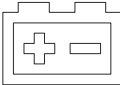
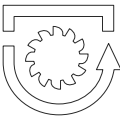
Troubleshooting schedule

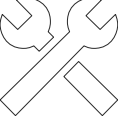
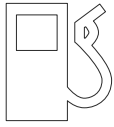
If you cannot find a solution to your problems in this owner's manual, speak to your Husqvarna servicing dealer.

Problem	Cause
The starter motor does not turn the engine over	The parking brake is not applied. See <i>To apply and release the parking brake on page 19.</i>
	The lift lever for the cutting deck is in mow position. See <i>To lift and lower the cutting deck on page 17.</i>
	The main fuse is blown. See <i>To replace the main fuse on page 25.</i>
	The ignition lock is damaged.
	The connection between the cable and the battery is bad. See <i>Battery safety on page 12.</i>
	The battery is too weak. See <i>To charge the battery on page 25.</i>
	The starter motor is damaged.
The engine does not start when the start motor turns the engine over	There is no fuel in the fuel tank. See <i>To fill fuel on page 15.</i>
	The spark plug is damaged.
	The ignition cable is damaged.
	There is dirt in the carburettor or fuel line.
The engine does not run smoothly	The spark plug is damaged.
	The carburettor is incorrectly set.
	The air filter is clogged. See <i>To clean and change the air filter on page 24.</i>
	The fuel tank vent is blocked.
	There is dirt in the carburetor or fuel line.
The engine apparently has no power	The air filter is clogged. See <i>To clean and change the air filter on page 24.</i>
	The spark plug is damaged.
	There is dirt in the carburetor or fuel line.
	The throttle cable is incorrectly adjusted.
The transmission does not have sufficient power	The transmission cold air intake or the cooling fins are blocked.
	The fan on the transmission is damaged.
	There is no oil in the transmission or the oil level is too low. See <i>To do a check of the transmission oil level on page 31.</i>
The battery does not charge	The battery is damaged. See <i>Battery safety on page 12.</i>
	The connection at the cable connectors on the battery terminals is bad. See <i>Battery safety on page 12.</i>

Problem	Cause
There is vibration in the product	The blades are loose. See <i>To examine the blades on page 29</i> .
	One or more of the blades are unbalanced. See <i>To examine the blades on page 29</i> .
	The engine is loose.
The cutting result is unsatisfactory	The blades are blunt. See <i>To examine the blades on page 29</i> .
	The grass is long or wet. See <i>To get a good cutting result on page 19</i> .
	The cutting deck is skew.
	There is grass blockage in the cutting deck. See <i>To clean the product on page 22</i> .
	The tire pressure is different on the right and left sides. See <i>Tire pressure on page 26</i> .
	The product is operated at a too high speed. See <i>To get a good cutting result on page 19</i> .
	The engine speed is too low. See <i>To get a good cutting result on page 19</i> .
	The drive belt slips.

Display - Troubleshooting

Symbol	Name	Indication on the display	Sound	Cause
	Slope indicator	The symbol shows.	-	You operate the product in a slope $>10^{\circ}$. Refer to <i>Safety instructions for operation on page 9</i> .
		The symbol flashes.	-	You operate the product in a slope $>15^{\circ}$. Refer to <i>Safety instructions for operation on page 9</i> .
	Oil pressure sensor	The symbol shows.	1 long sound.	Low oil pressure. Refer to <i>To do a check of the engine oil level on page 29</i> .
	Battery level indicator	The symbol shows.	1 long sound.	Low voltage. Refer to <i>To charge the battery on page 25</i> .
	Rotating blades indicator	The symbol shows.	-	The drive of the blades is engaged.
		The symbol flashes.		Incorrect start procedure. Refer to <i>Start conditions on page 10</i> .
	Parking brake indicator	The symbol shows.	-	The parking brake engaged. Refer to <i>Parking brake on page 10</i> .
		The symbol flashes.		Incorrect start procedure. Refer to <i>Start conditions on page 10</i> .
		The symbol flashes quickly.		Damaged parking brake. Speak to your Husqvarna servicing dealer.

Symbol	Name	Indication on the display	Sound	Cause
	Operator presence control (OPC) indicator	The symbol flashes.	5 short sounds.	The operator presence control is disengaged when you try to start the engine. Refer to <i>Start conditions on page 10</i> .
		The symbol flashes quickly.	-	Damaged operator presence control. Speak to your Husqvarna servicing dealer.
	Servicing indicator	The symbol shows.	5 short sounds.	Servicing is necessary. Speak to your Husqvarna servicing dealer.
	Low fuel level indicator	The symbol shows.	1 short sound.	Low fuel. Refer to <i>To fill fuel on page 15</i> .

Note: The look of the display can be different between different models.

Transportation, storage and disposal

Transportation

- The product is heavy and can cause crush injuries. Be careful when you load it onto or off a vehicle or trailer.
- Do not lift the product. The transport eyelets are not approved lifting points and must only be used to attach the product safely to a trailer.
- Use an approved trailer for transportation of the product.
- Make sure that you have knowledge of local road traffic regulations before transportation of the product in a trailer or on roads.

To safely attach the product for transport

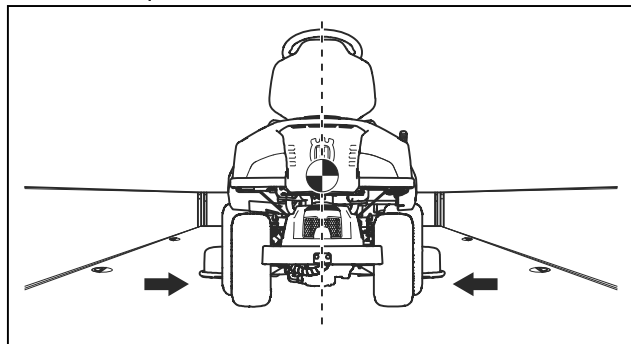
Before you attach the product, you must read and understand the safety chapter. Refer to *Transport safety on page 12*.



WARNING: The parking brake is not sufficient to lock the product during transport. Attach the product tightly to the load area.

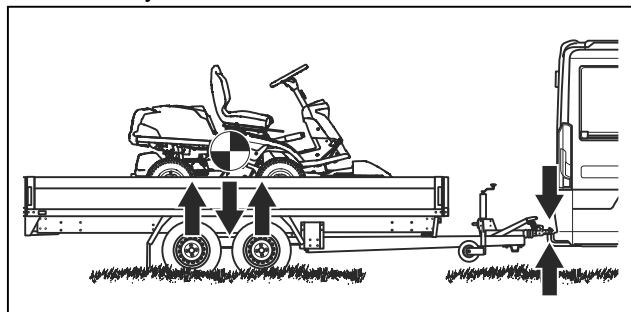
Equipment: 2 approved straps and 4 wedge shaped wheel blocks.

1. Park the product in the center of the load area.

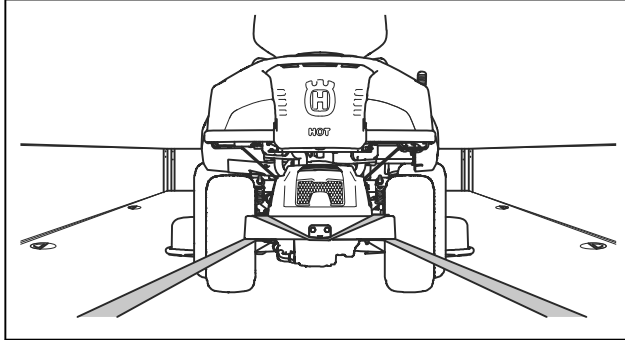


CAUTION: For transport in transport vehicles with a cover. Make sure to let the product become cool before you put the product under the cover.

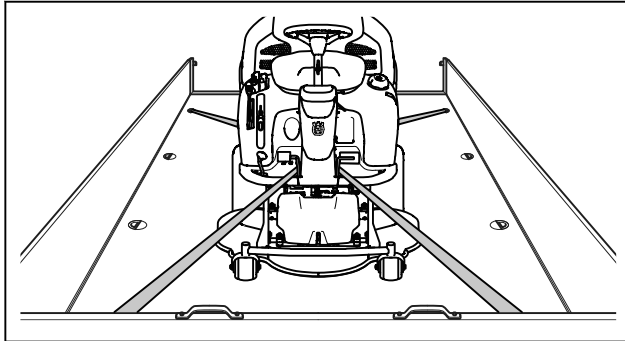
2. Make sure that the center of gravity of the product is above the wheel axle of the transport vehicle. If a trailer is used for transport, make sure that the down force on your tow bar is correct.



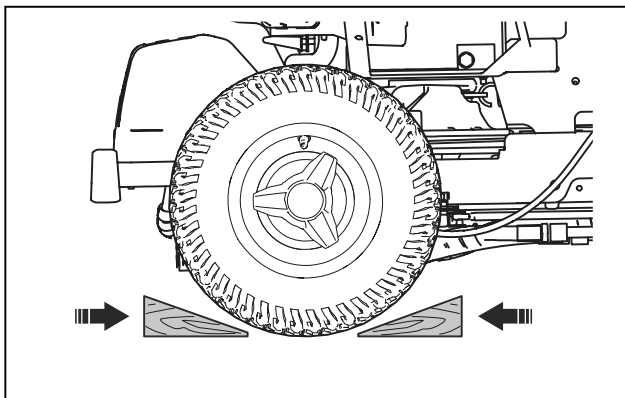
3. Apply the parking brake.
4. If the product has Bluetooth®, lock the product with Husqvarna Connect.
5. Lower the cutting deck to the mow position.
6. Remove all loose objects.
7. Assemble the first strap through the rear transmission frame. Refer to the illustration.



8. Tighten the strap rearward to attach the product to the load area.
9. Put the second strap around the frame tunnel.



10. Attach the strap to the load area.
11. Tighten the strap in the direction of the front of the load area to attach the product to the load area.
12. Put the wheel blocks in front of and behind the rear wheels.



To tow the product

The product has a hydrostatic transmission. To prevent damage to the transmission, tow the product short distances only and at low speed.

Disengage the transmission before you tow the product. Refer to *To engage and disengage the drive system* on page 16.

Storage

Prepare the product for storage at the end of the season, and before more than 30 days of storage. If you keep fuel in the fuel tank for 30 days or more, tacky particles can cause blockage in the carburetor. This has a negative effect on the engine function.

To prevent tacky particles during storage, add a stabilizer. If alkylate gasoline is used, stabilizer is not necessary. If you use standard gasoline, do not change to alkylate gasoline. This can cause sensitive rubber parts to become hard. Add stabilizer to the fuel in the tank or in the container used for storage. Always use the mixing ratios given by the manufacturer. Run the engine for a minimum of 10 minutes after you add the stabilizer until it flows into the carburetor.



WARNING: Do not keep the product with fuel in the tank in an indoor location or in locations with bad airflow. Risk of fire if fuel fumes come near open flames, sparks, or pilot lights in for example boilers, hot water tanks and clothes dryers.



WARNING: Remove grass, leaves and other flammable materials from the product to decrease the risk of fire. Let the product become cool before you put it in storage.

- Clean the product, see *To clean the product* on page 22. Repair paint damages to prevent corrosion.
- Examine the product for worn or damaged parts and tighten loose screws and nuts.
- Remove the battery. Clean it, fully charge it, and keep it cool during storage. The battery should be stored above freezing temperature but below 10°C for optimal lifetime.
- Charge the battery every six months or if the voltage drops below 12.55 V.
- Change the engine oil, and discard the waste oil.
- Empty the fuel tank. Start the engine and run it until there is no remaining fuel in the carburetor.

Note: Do not empty the fuel tank and carburetor if a stabilizer has been added.

- Remove the plugs and put about a tablespoon of engine oil into each cylinder. Manually turn the engine shaft to apply the oil and put the plugs back on.
- Lubricate all grease nipples, joints and axles.
- Keep the product in a clean and dry area and cover it for more protection.
- A cover for protection of your product during storage or transport is available at your dealer.

Disposal

- Chemicals can be dangerous and must not be discarded on the ground. Always discard used chemicals at a service center or an applicable disposal location.
- When the product is worn out, send it to the dealer or to an applicable recycling location.
- Oil, oil filters, fuel and the battery can have negative effects on the environment. Obey the local recycling requirements and applicable regulations.
- Do not discard the battery as domestic waste.
- Send the battery to a Husqvarna servicing dealer or discard it at a disposal location for used batteries.

Technical data

Technical data

	R 316TX	R 316TX AWD	R 316TsX AWD
Dimensions	Refer to <i>Product dimensions on page 40</i> .		
Weight without cutting deck, with empty tanks, kg	240	238	251
Tire dimensions	170/60-8	170/60-8	170/60-8
Tire pressure, rear – front, kPa / bar / PSI	60 / 0.6 / 8.5	60 / 0.6 / 8.5	60 / 0.6 / 8.5
Max. gradient, degrees °	10	10	10
Max. tow equipment weight at 10 ° gradient, kg	125	125	125
Max. permitted vertical force on the tow bar, N/kg	250/25	250/25	250/25
Max. permitted horizontal force on the tow bar, N/kg	220/22	220/22	220/22
Max. load on the engine cover, kg	10	10	10
Engine			
Brand / Model	Kawasaki / FS481V	Kawasaki / FS481V	Kawasaki / FS481V
Nominal engine output, kW ⁵	9.6	9.6	9.7
Displacement, cm ³	603	603	603
Max. engine speed, rpm	2900 ± 100	2900 ± 100	3100 ± 100
Max. forward speed, km/h	9	9	9
Max. reverse speed, km/h	8	6	8
Fuel, min. octane grade lead-free	91	91	91
Tank volume, l	12	12	12
Engine oil ⁶	Husqvarna SAE 30, Husqvarna SAE 5W-30 Synthetic, Husqvarna SAE 10W-40	Husqvarna SAE 30, Husqvarna SAE 5W-30 Synthetic, Husqvarna SAE 10W-40	Husqvarna SAE 30, Husqvarna SAE 5W-30 Synthetic, Husqvarna SAE 10W-40
Oil volume incl. filter, l	1.7	1.7	1.7

⁵ The power rating of the engine indicated is the average net output (at specified rpm) of a typical production engine for the engine model measured to SAE standard J1349/ISO1585. Mass production engines may differ from this value. Actual power output for the engine installed on the final product will depend on the operating speed, environmental conditions and other values.

⁶ Use engine oil of quality API SJ or higher. If SAE-30 oil is used at temperature lower than +5 °C, there is a risk that it does not lubricate the engine sufficiently. This can cause engine damage. Refer to *Technical data on page 37* for the correct oil for low temperatures. See the viscosity chart in the Engine manual (if included) and select the best viscosity based on the expected outside temperature.

	R 316TX	R 316TX AWD	R 316TsX AWD
Oil volume excl. filter, l	1.5	1.5	1.5
Start motor	Electric start 12V	Electric start 12V	Electric start 12V
Transmission			
Brand	Tuff Torq	Tuff Torq	Tuff Torq
Model	K46H	K574A/KTM10LB	K574RA/KTM10LB
Oil, class SF-CC ⁷	Husqvarna SAE 10W-30	Husqvarna SAE 10W-30	Husqvarna SAE 10W-30
Oil volume, l	2.1	5.6	5.6
Electrical system			
Type	12V, negative earth-ed	12V, negative earth-ed	12V, negative earth-ed
Battery	12V, 24Ah	12V, 24Ah	12V, 24Ah
Spark plug	NGK BPR4ES	NGK BPR4ES	NGK BPR4ES
Electrode gap, mm/inch	0.75/0.030	0.75/0.030	0.75/0.030
Headlight	Dual LED lights	Dual LED lights	Dual LED lights
Rear light	–	LED lights	LED lights
Cutting deck			
Type	Combi 94	Combi 94	Combi 94
	Combi 103	Combi 103	Combi 103
	Combi 112	Combi 112	Combi 112

Noise emissions ⁸	R 316TX	R 316TX AWD	R 316TsX AWD
Sound power level, measured dB(A)			
Combi 94	97	97	98
Combi 103	97	97	98
Combi 112	97	97	98
Sound power level, guaranteed dB(A)			
Combi 94	98	98	99
Combi 103	98	98	99
Combi 112	98	98	99

⁷ Use Husqvarna SAE 10W-30 transmission oil for best performance. If Husqvarna oil is not available, use 10W-30 STOU oil. The new classification is API GL-4 standard.

⁸ **Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EC directive 2000/14/EC.**

Sound levels ⁹	R 316TX	R 316TX AWD	R 316TsX AWD
Sound pressure level at the operators ear, dB(A)			
Combi 94	86	86	87
Combi 103	86	86	87
Combi 112	86	86	87

Vibration levels ¹⁰	R 316TX	R 316TX AWD	R 316TsX AWD
Vibration level on the steering wheel, m/s ²	2.5	2.5	2.5
Vibration level in the seat, m/s ²	0.7	0.7	0.7

Cutting deck	Combi 94	Combi 103	Combi 112
Cutting width, mm	940	1030	1120
Cutting height, 10 positions, mm	25–75	25–75	25–75
Weight, kg	44	49	52
Blade length, mm	358	388	420
Blade			
Article number	579 65 25-10	504 18 82-10	544 10 28-10



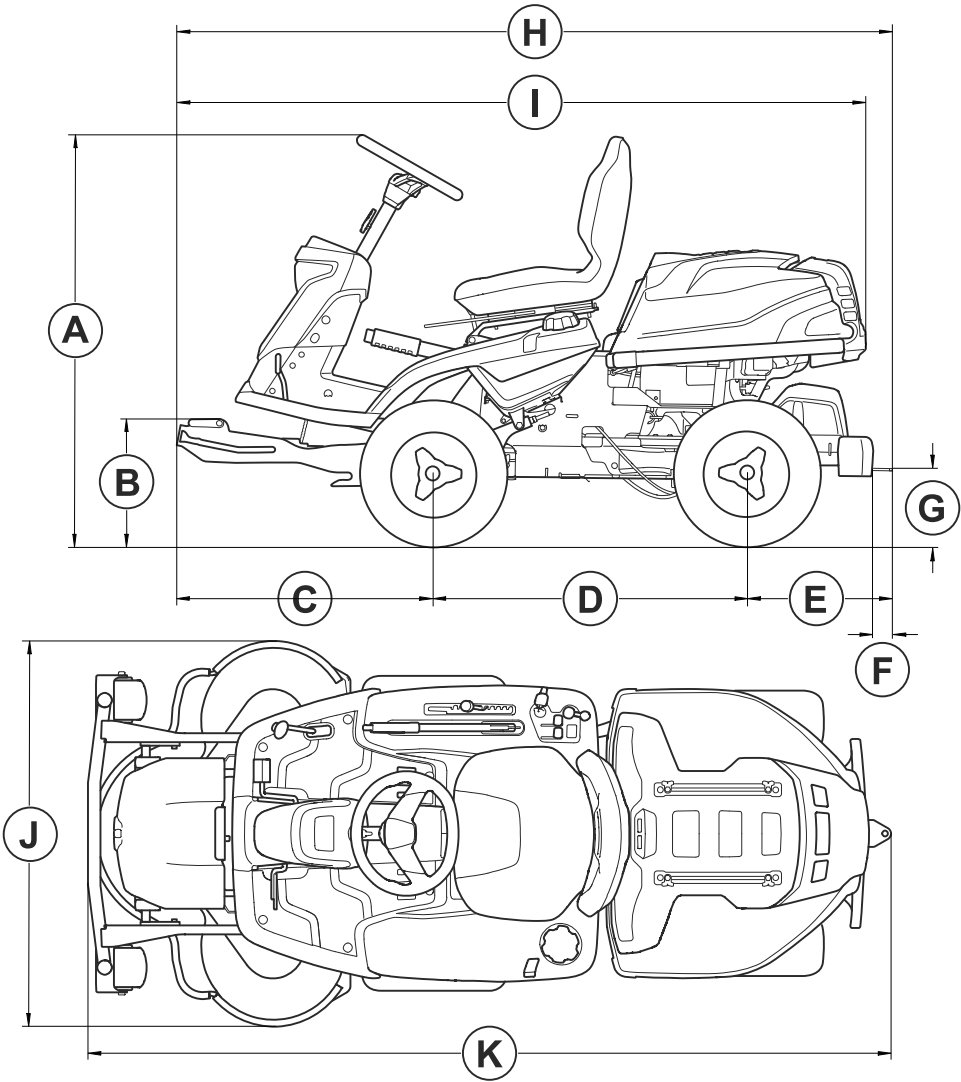
WARNING: To use a cutting deck that is not approved for the product can cause objects to eject at high speed and cause

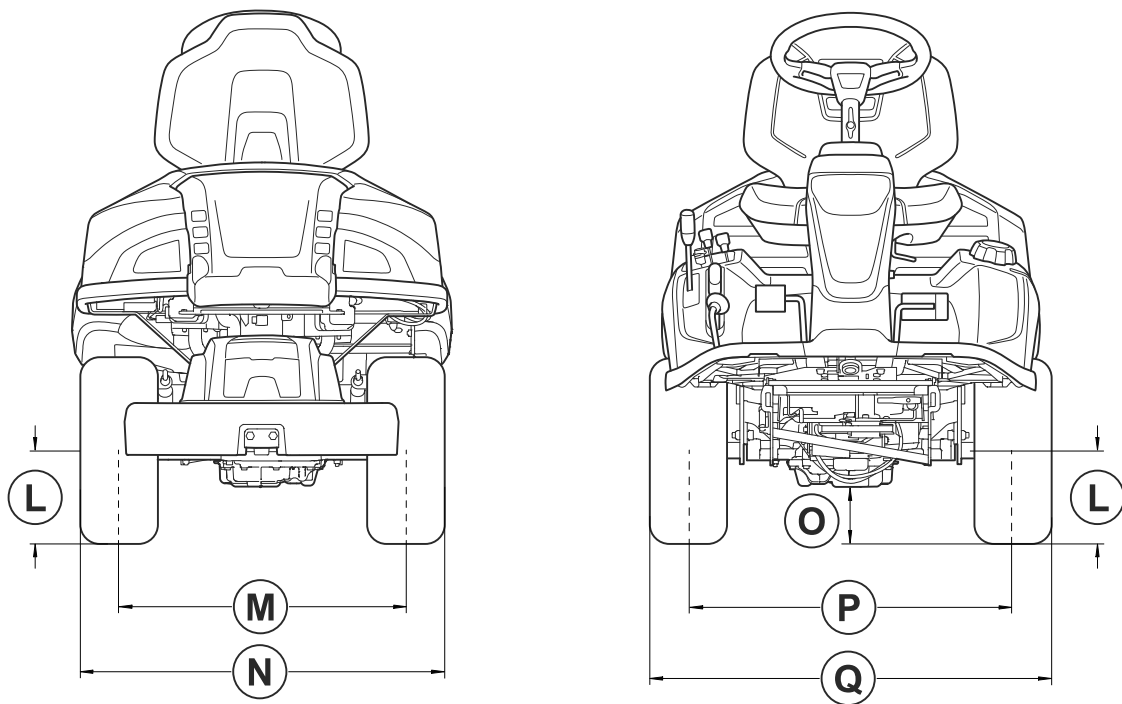
serious injury. Do not use other cutting deck types than specified in this manual.

⁹ Noise pressure level according to EN ISO 5395. Reported data for noise pressure level has a typical statistical dispersion (standard deviation) of 1.2 dB(A).

¹⁰ Vibration level according to EN ISO 5395. Reported data for vibration level has a typical statistical dispersion (standard deviation) of 0.2 m/s² (steering wheel) and 0.8 m/s² (seat).

Product dimensions





Dimensions, mm.					
A	1165	G	218	L	205
B	364	H	Excl. counterweight:2008	M	627
C	727		Incl. counterweight:2024	N	799
D	887	I	Excl. counterweight:1952	O	R 316TX:125
			Incl. counterweight:1968		R 316TX AWD, R 316TsX AWD:95
E	Excl. counterweight:394	J	Combi 94:994	P	711
	Incl. counterweight:410		Combi 103:1081		
			Combi 112:1178		

Dimensions, mm.					
F	70	K	Combi 94:	Q	883
			Excl. counterweight:2243		
			Incl. counterweight:2259		
			Combi 103:		
			Excl. counterweight:2253		
			Incl. counterweight:2269		
			Combi 112:		
			Excl. counterweight:2253		
			Incl. counterweight:2269		

Radio frequency data

	R 316TX	R 316TX AWD	R 316TsX AWD
Frequency range, MHz	2402–2480	2402–2480	2402–2480
Output power ¹¹ , dBm	-5.2	-5.2	-5.2

Service

Service

Do a yearly check at an authorized service center to make sure that the product functions safely and at its best during high season. The best time to do a servicing or overhaul of the product is low season.

When you send an order for the spare parts, give information about the purchase year, model, type, and serial number.

Always use original spare parts.

¹¹ Measured at 2440 MHz.

Declaration of Conformity

EU Declaration of Conformity

We, Husqvarna AB, SE-561 82 Huskvarna, SWEDEN,
Tel: +46 36 146500 declare on our sole responsibility
that the product:

Description	Ride-on Lawn Mower
Brand	Husqvarna
Type/Model	R 316TX, R 316TX AWD, R 316TsX AWD
Identification	Serial numbers dating from 2024 and onwards

complies fully with the following EU directives and
regulations:

Regulation	Description
2006/42/EC	"relating to machinery"
2014/53/EU	"relating to radio equipment"
2000/14/EC	"relating to the noise emissions in the environment"
2011/65/EU	"on the restriction of the use of certain hazardous substances in electrical and electronic equipment"

and that the following harmonized standards and/or
technical specifications are applied;

EN ISO 12100:2010

EN ISO 5395-1:2013/A1:2018

EN ISO 5395-3: 2013/A1:2017/A2:2018

EN ISO 14982:2009

EN ETSI 300 328 v.2.2.2

ETSI EN 301 489-1 V2.2.3

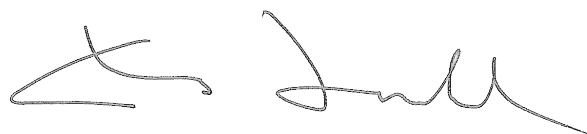
ETSI EN 301 489-17 V3.2.4

EN IEC 63000:2018

Notified Body: 0404, SMP Svensk Maskinprovning AB,
Box 4053, SE-904 03 Umeå, Sweden has also verified
agreement with annex VI of the council's directive
2000/14/EC.

For information relating to noise emissions, refer to
Technical data on page 37.

Huskvarna, 2025-01-20



Claes Losdal

Development Manager/Garden Products

Husqvarna AB

Responsible for technical documentation



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