



 **Husqvarna**[®]



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

ES	Manual de usuario	2-39
PT	Manual do utilizador	40-77
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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.

Service agent 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

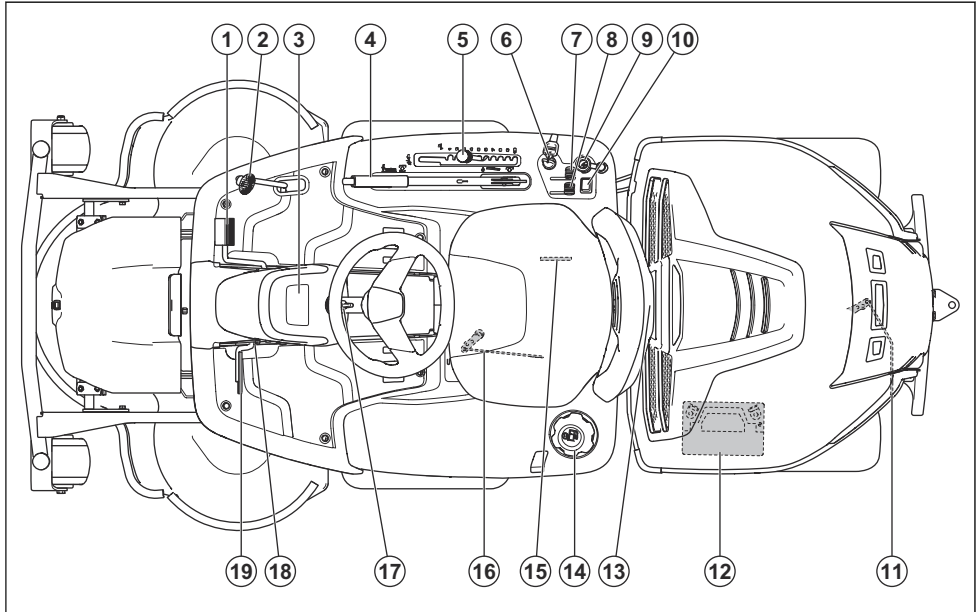
The product is made to cut grass on open and level ground in residential areas and gardens. Attach an

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

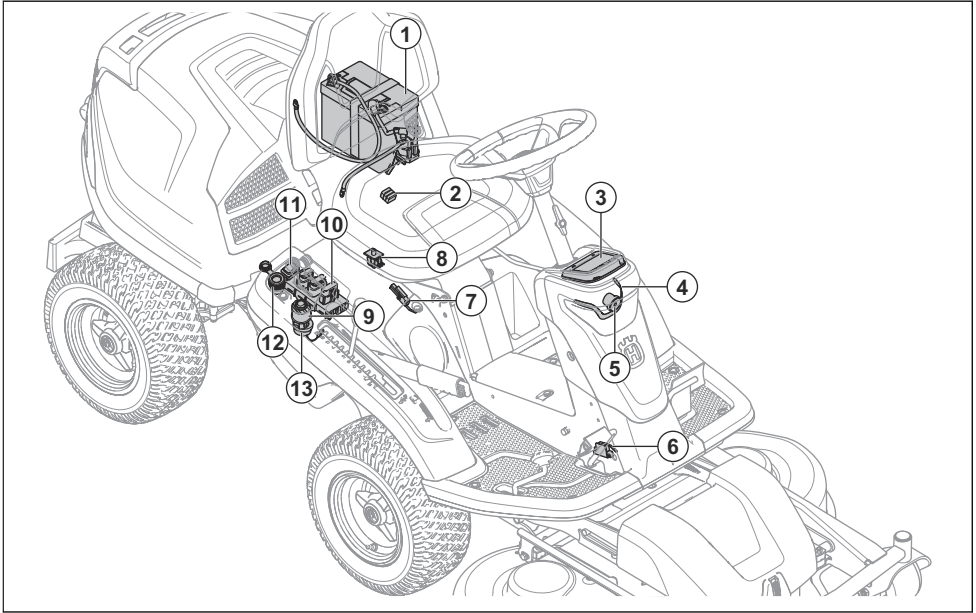
Make sure that you have insurance coverage for your new product. Speak to your insurance company if you are not sure. We recommend a fully comprehensive insurance that includes third party, fire, damage, theft and liability.

Product overview



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

Electrical system overview



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

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 82*.

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

Husqvarna Connect

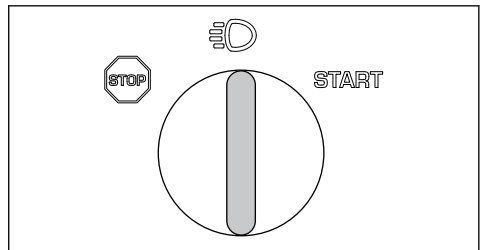
The product has wireless technology and can connect to mobile devices that have the Husqvarna Connect app installed. The Husqvarna Connect app is a free app for

your mobile device. The Husqvarna Connect app gives extended functions for your Husqvarna product:

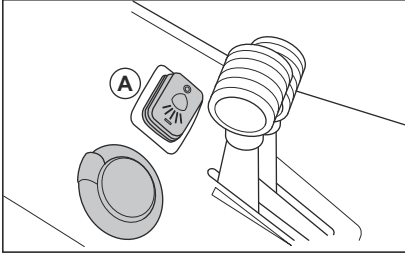
- Lock and unlock function to prevent not approved operation of the product.
- Extended product information.
- Information about, and help with, product parts and servicing.

Headlights

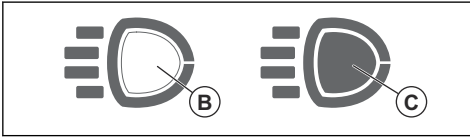
The headlights have work lights and high beam lights. Turn the ignition key to the lights position to make the work light come on. The work lights stay on for 3 minutes after the engine stops.



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



When the work lights 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.



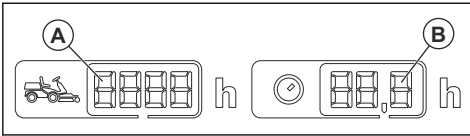
Power outlet

The voltage of the power outlet is 12 V. The power outlet has a fuse, see *Technical data on page 109*.

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). A new operation period starts if the engine is off at a minimum of 6 h.



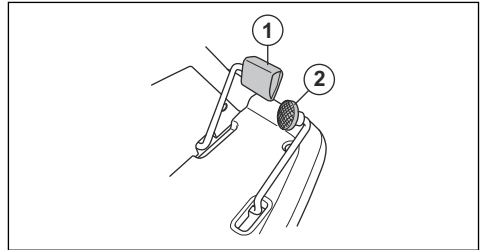
The time with ignition on but engine off, is not registered. The last digit shows tenth of an hour (6 minutes).

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 86*.

Forward and rearward pedals

The speed is gradually adjusted with 2 pedals. The left pedal (1) is used to move forward, and the right pedal (2) is used to move rearward. The product brakes when the pedals are released.

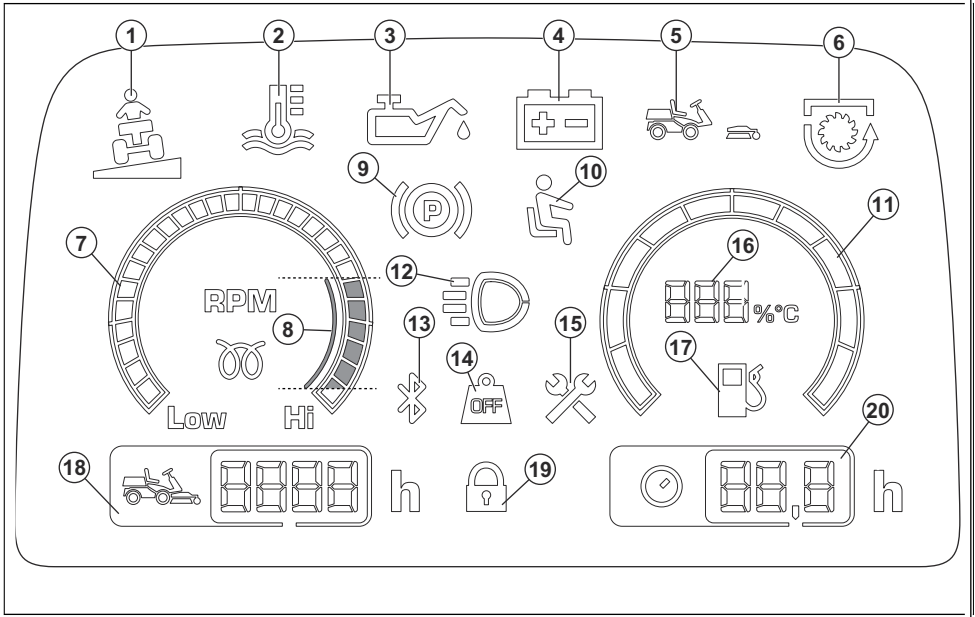


Cutting deck

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.



1. Slope indicator
2. Hydraulic temperature indicator
3. Oil pressure indicator
4. Battery level indicator
5. Indicator for cutting deck presence
6. PTO indicator
7. Tachometer
8. Recommended engine RPM when you operate the product.
9. Parking brake indicator
10. Operator presence control (OPC)
11. Fuel gauge
12. Work light or high beam light indicator
13. Bluetooth®
14. Weight Transfer
15. Service indicator
16. Fuel gauge measured in steps of 5%
17. Low fuel level indicator
18. Total run time
19. Digital lock
20. Operation run time

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

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 86*.



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 according to the European Community's Directive. The product's emission is specified in the Technical data chapter 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.

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

EU V



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

Product liability

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

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

Safety

Safety definitions

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



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



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

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

General safety instructions



WARNING: 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.



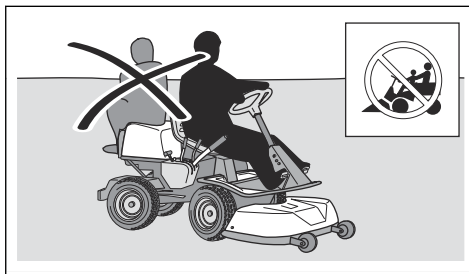
WARNING: This product produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury we recommend persons with medical implants to consult their physician and the medical implant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



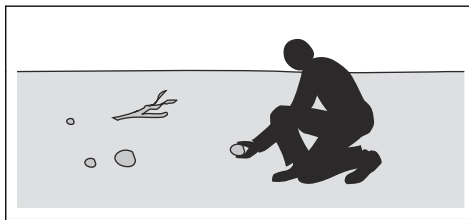
WARNING: Read the warning instructions that follow before you use the product.

- 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.

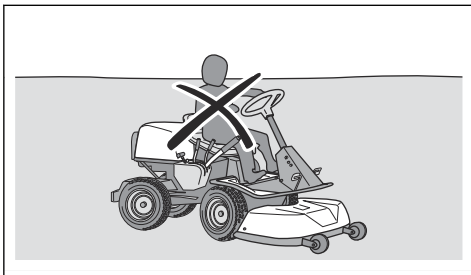
- Do not use the product if you are fatigued, while under the influence of alcohol or drugs, medicine or anything that can have a negative effect on your vision, alertness, coordination or judgement.
- Always park the product on a level surface with the engine stopped.

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.

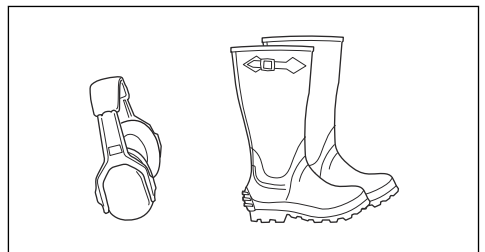
- Before you operate the product, clear the cold air intake of the engine from grass and dirt. If the cold air intake is blocked, there is a risk of engine damage.
- Move around stones and other larger objects carefully and make sure that the blades do not hit the objects.
- Do not operate the product 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.
- Always wear approved hearing protection. Long term exposure to noise can result in permanent hearing impairment.
- Always wear protective shoes or protective boots. Steel toes are recommended. Do not use the product barefoot.



- Wear 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 close at hand.

Safety devices on the product



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

- Do not use a product with defective safety devices. Do a check of the safety devices regularly. If the safety devices are defective, speak to your Husqvarna service agent.
- 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 defective.

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 91* and *To stop the engine on page 93*.
- 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 speed limiter

- Release the forward pedal to brake.
- For more brake power, press the reverse pedal.
- Make sure that the forward and reverse pedals are not blocked and can be operated freely.
- Make sure that the product brakes when the forward pedal is released.

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.

See *To do a check of the parking brake on page 97*.

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 defective. A defective 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

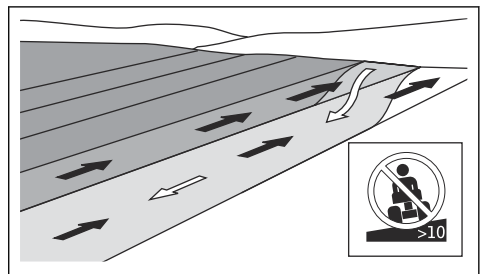
Missing or damaged protective covers increase the risk of injury on moving parts and hot surfaces. Do a check of the protective covers before you operate the product. Make sure that the protective covers are correctly attached and do not have cracks or other damages. Replace damaged covers.

To cut grass on slopes



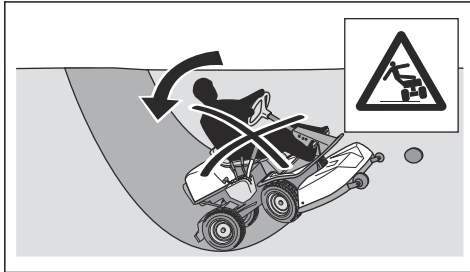
WARNING: Read the warning instructions that follow before you use the product.

- 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.

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 approved Husqvarna service agent.



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

- Use protective glasses when you are near batteries.
- Do not wear watches, jewelry or other metal objects near the battery.
- Keep the battery out of reach for children.
- Charge the battery in a space with good airflow.
- Keep flammable materials at a minimum clearance of 1 m when you charge the battery.
- Discard replaced batteries. See *Disposal on page 108*.
- Explosive gases can come from the battery. Do not smoke near the battery. Keep the battery away from open flames and sparks.

Transport safety

- Use an approved transport vehicle for transportation of the product.
- 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.

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.

- 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.



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.



CAUTION: Read the caution 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 94*.
- 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.

- 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 109* for highest permitted engine speed.
- The product is approved only with the equipment supplied or recommended by the manufacturer.

Assembly

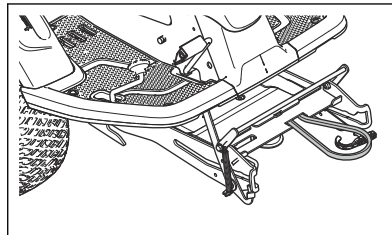
Introduction



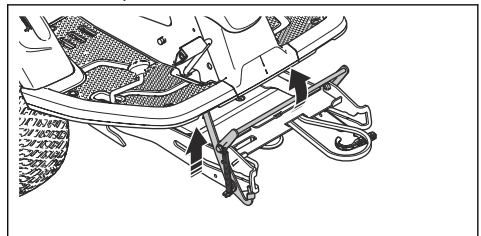
WARNING: The drive belt tension spring can break and cause injury. Wear protective glasses when you attach or remove the cutting deck.

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.

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

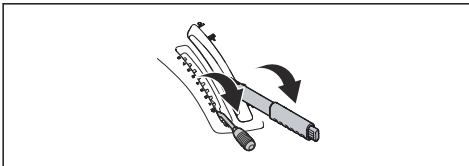


- Push the equipment frame down. Lift the service lock to vertical position.



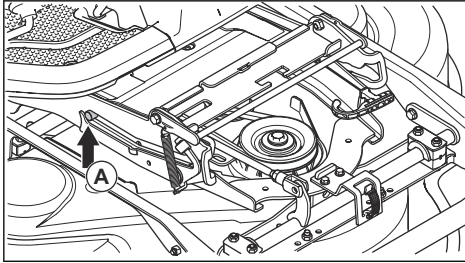
To attach the cutting deck

- Park the product on level ground.
- Apply the parking brake.
- Set the cutting height lever in the servicing position.
- Set the lift lever for the cutting deck in the mow position.

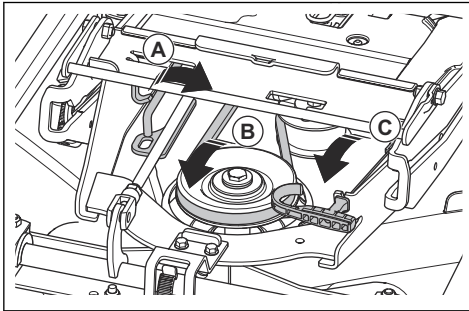


WARNING: The lock mechanism can cause injury to fingers if you do not operate it carefully. Put the service lock in full vertical position and hold the front edge of the cutting deck with two hands when you continue to the next step.

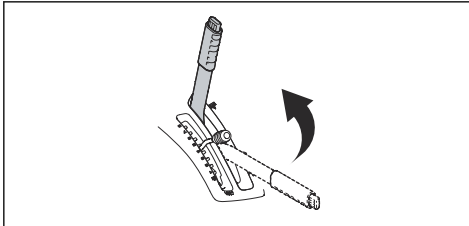
- Lift the front edge of the cutting deck and move it into the equipment frame. The plugs on the cutting deck, one on each side, must be put in the grooves on the equipment frame. The service lock releases automatically.



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



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

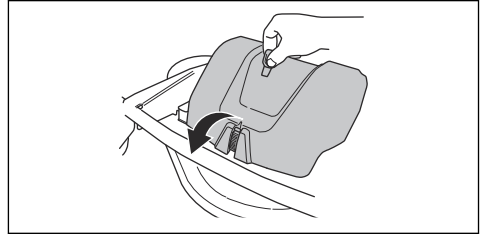


- Attach the front cover.

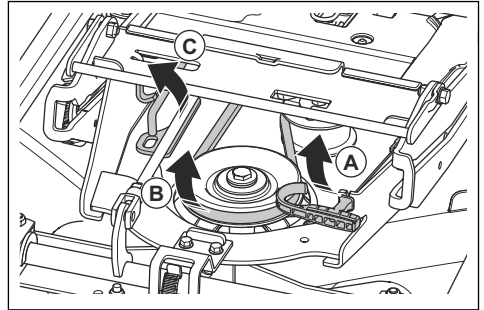
To remove the cutting deck

- Do steps 1–4 in *To attach the cutting deck on page 88*.

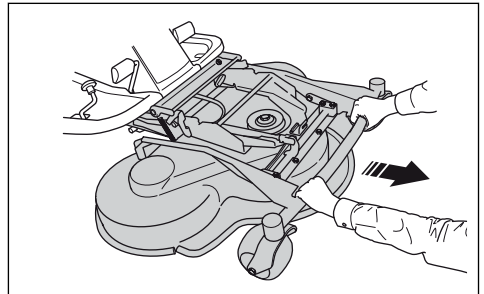
- Release the clip on the front cover with the tool attached to the ignition key, and remove the cover.



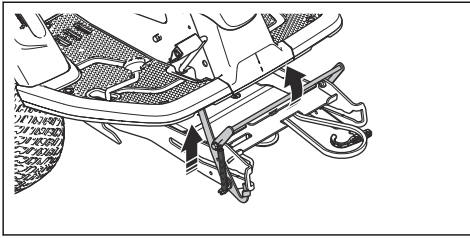
- Loosen the tension on the tension wheel for the drive belt. (A)



- Hold the spring handle with your left hand and remove the drive belt with your right hand.
- Pull the drive belt to the rear below the product. Do not put it in the belt holder (B).
- Put the spring handle in the spring holder to prevent that the spring falls down.
- Lift the cutting height stay and put it in the holder for the cutting height stay (C).
- 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 (see *Fuel safety on page 87*).



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.

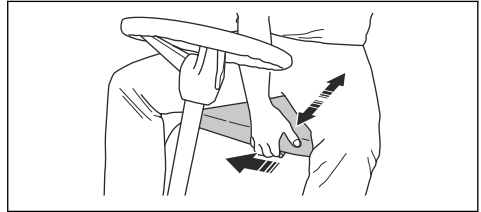
- Do a check of the fuel level before each use and refuel if necessary.
- Do not fully fill the fuel tank. Keep a space of a minimum 2.5 cm.

To adjust the seat

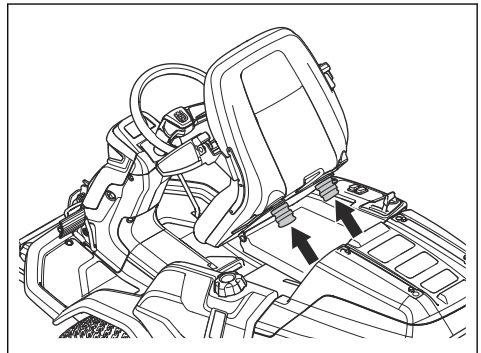


WARNING: Do not adjust the seat during operation of the product.

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, to the side.
3. Move the seat to the position that is correct for you.



4. To adjust the seat springs, move the rubber stops below the seat as given in the illustration. Put the 2 stops in the front, middle or rear.

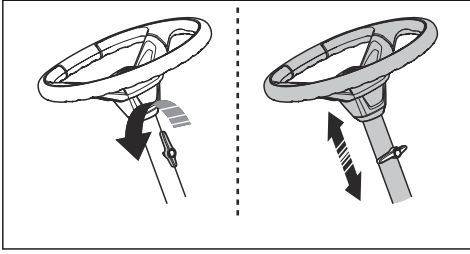


To adjust height of the steering wheel



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

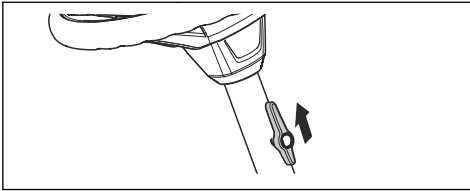
1. Turn the knob counterclockwise to loosen.



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



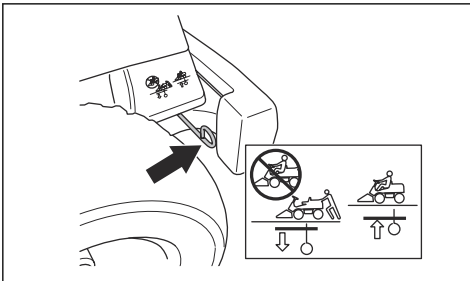
CAUTION: Make sure that the long end of the knob points up.



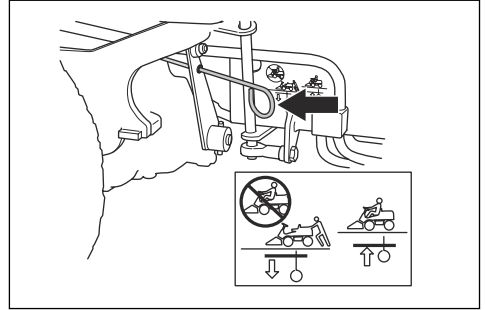
To engage and disengage the drive system

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.

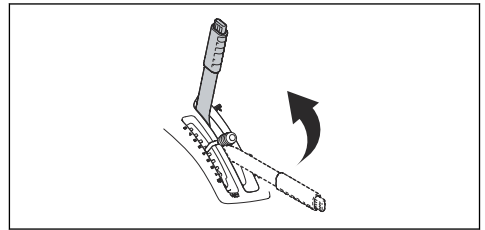


The drive system lever for the front axle for R 316TX AWD, R 316TsX AWD is found behind the left front wheel.

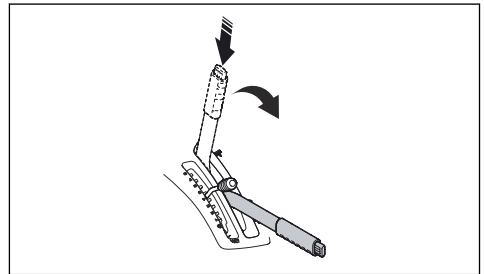


To lift and lower the cutting deck

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

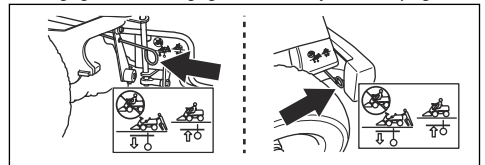


To lower the cutting deck to mowing position, press the lock button and move the lift lever forward. If the engine is running, the blades start to rotate automatically.

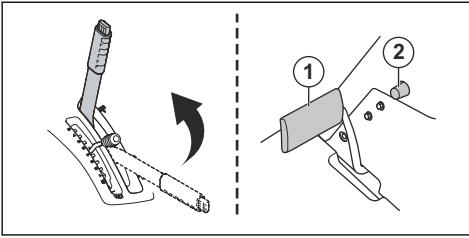


To start the engine

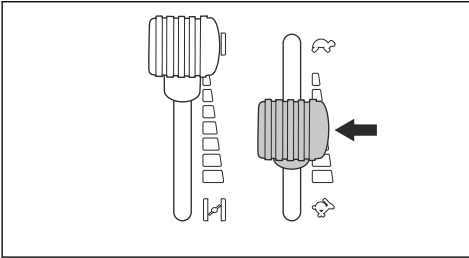
1. Make sure that the drive system is engaged, see *To engage and disengage the drive system on page 91.*



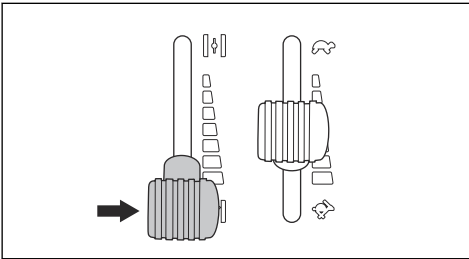
2. Lift the cutting deck and apply the parking brake.



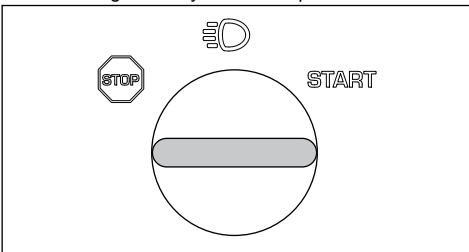
3. Move the throttle control to the middle position.



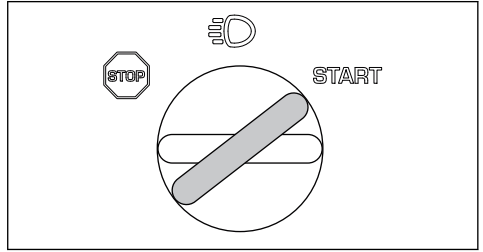
4. If the engine is cold, move the choke control fully rearward.



5. Turn the ignition key to the start position.

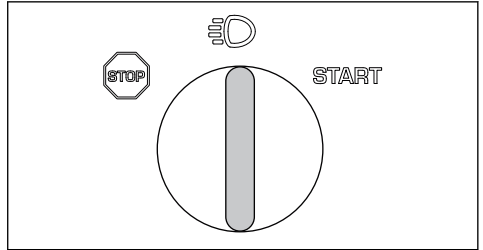


6. When the engine starts, immediately release the ignition key to neutral position.

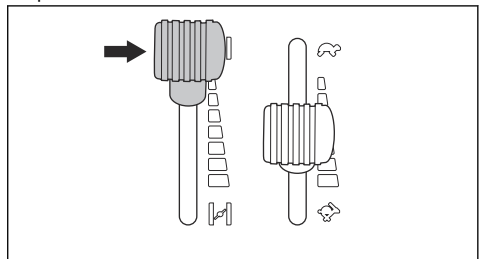


CAUTION: Do not run the starter for more than 5 seconds at a time. If the engine does not start, wait 15 seconds before you try again.

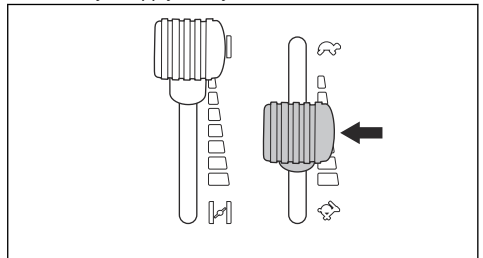
7. Turn the key to the lights position to make the headlights come on.



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



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



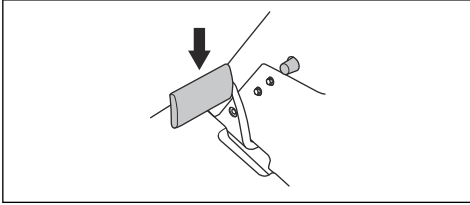
10. Pull the throttle control rearward to full throttle position.



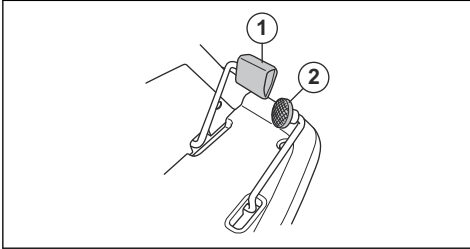
CAUTION: To engage the blades when the engine is at full speed causes strain on the drive belts. Do not apply full throttle until the cutting deck is lowered to the mow position.

To operate the product

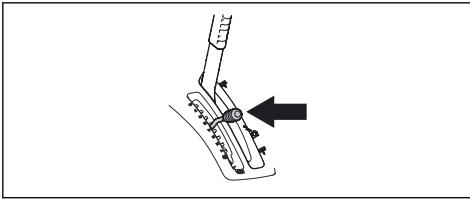
1. Start the engine.
2. Press the parking brake pedal down and then release it to release the parking brake.



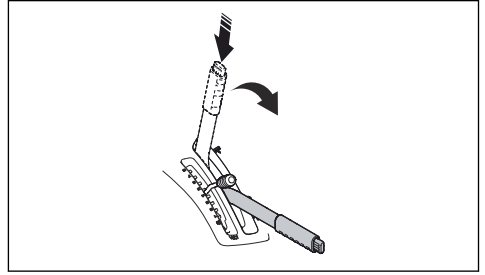
3. Carefully press down one of the speed pedals. The speed increases the more the pedal is pressed down. Use pedal (1) to move forward, and pedal (2) to reverse.



4. Release the pedal to brake.
5. Select cutting height (1–10) with the cutting height lever.

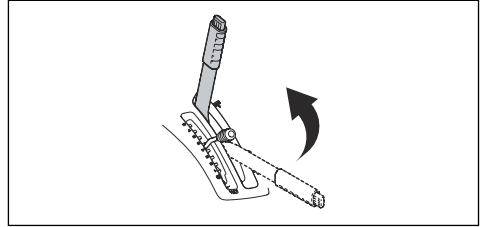


6. Press the lock button on the lift lever for the cutting deck and lower it to mow position.

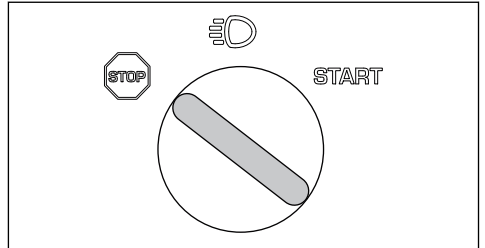


To stop the engine

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.



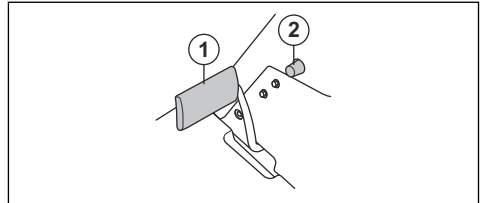
2. Turn the ignition key to the STOP position.



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 94*.
- 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, see *Technical data on page 109*). 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.

Maintenance

Introduction



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

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

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

Note: If more than one time interval is identified in the table, the shortest time interval is for the first maintenance only.

Maintenance schedule

* = General maintenance done by the operator. The instructions are not given in this operator's manual.

Maintenance	Daily maintenance before operation	Maintenance interval in hours			
		25	50	100	200
Make sure that nuts and screws are tightened	*				
Make sure that there are no fuel or oil leaks	*				
Clean as given in <i>To clean the product on page 95</i>	X				
Clean the inner surface of the cutting deck, around the blades	X				
Clean around the muffler	X				
Make sure that the cold air intake of the engine is not blocked	X				
Make sure that the safety devices are not defective	X				
Examine and do a test of the brakes	X				
Do a check of the engine oil level	X				
Do a check of the oil level in the transmission	X				
Do a check of the steering wires	X				
Examine the blades in the cutting deck		X			
Clean the cutting deck, below the belt covers and below the cutting deck			X		
Make sure that the tire pressure is correct		X	X		
Do a check of the parking brake			X		
Replace the engine oil ¹³				X	
Replace the oil filter					X

¹³ Replace the engine oil first time after 8 hours of operation.

Maintenance	Daily maintenance before operation	Maintenance interval in hours			
		25	50	100	200
Clean the air filter		X			
Replace the air filter					X
Replace the fuel filter				X	
Replace the spark plug				X	
Do a check of the parallelism of the cutting deck		X	X		
Lubricate the belt adjuster.		X	X		
Examine and adjust the steering wires		O	O		
Examine the muffler and heat deflector			O		
Examine the cutting deck for damages			O		
Adjust the parking brake.			O		
Do a check of and adjust the throttle wire			O		
Clean the cooling fins on the engine and the transmission			O		
Clean the engine and the transmission			O		
Do a check of/adjust front and rear wheel speed, AWD models only		O		O	
Do a check of the belts		O	O		
Do a check of the battery			O		
Do a check of the fuel hose. Replace it if necessary				O	
Replace the oil in the transmission			O		O
Replace oil filter in the transmission, AWD models only			O		O
Replace the spin-on filter of the servo, AWD models only			O		O

To clean the product

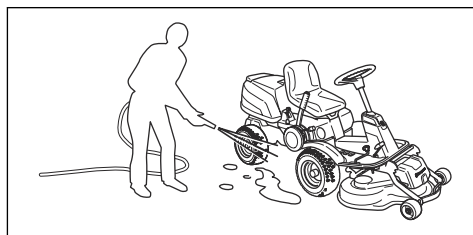


CAUTION: Do not use a high-pressure washer or a steam cleaner. Water can go into bearings and electrical connections and cause corrosion which causes damage to the product.

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.

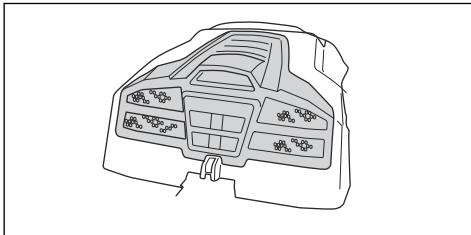
Grass cuttings around the muffler dry quickly and are a fire risk. Use a brush or remove the grass cuttings with water when the muffler is cold.

To clean the cold air intake of the engine

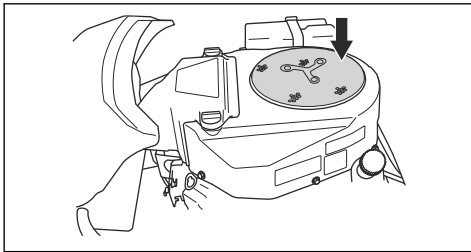


WARNING: Stop the engine. The cold air intake rotates and can cause injury to your fingers.

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



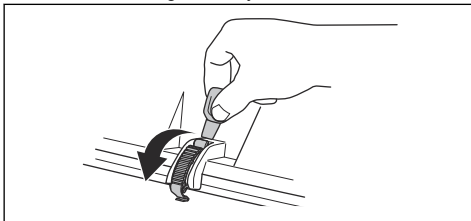
- Open the engine cover. Make sure that the engine cold air intake is not blocked. Remove grass and dirt with a brush.



To remove the covers

To open the engine cover

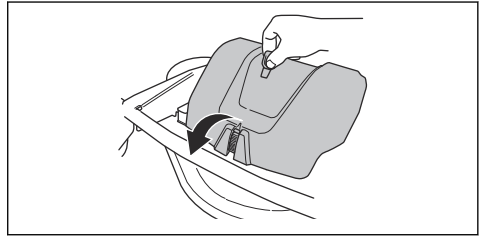
1. Fold the seat forward.
2. Release the clip on the engine cover with the tool attached to the ignition key.



3. Fold the engine cover rearward.

To remove the front cover

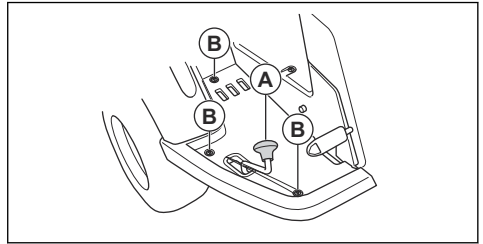
1. Release the clip on the front cover with the tool attached to the ignition key.



2. Lift off the front cover.

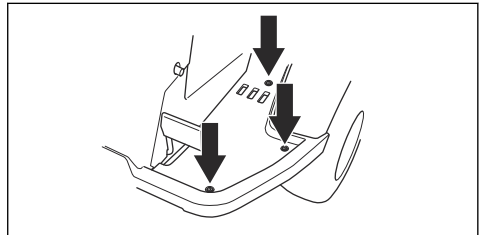
To remove the right footrest plate

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 3 screws and remove the footrest plate.

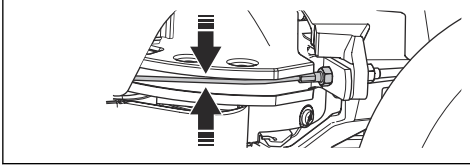


To examine the steering wires

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.



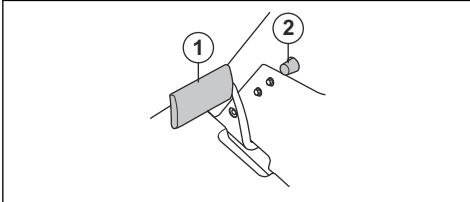
2. If the wires are too loose, let an authorized service agent adjust them.

To do a check of the parking brake

1. Park the product on a hard surface that slopes.

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

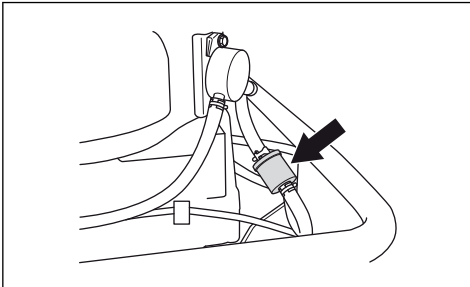
2. Press the parking brake pedal down (1).
3. Press and hold the lock button (2) and release the parking brake pedal while the button is pressed.



4. If the product starts to move, let an approved service agent adjust the parking brake.
5. Press the parking brake pedal again to release the parking brake.

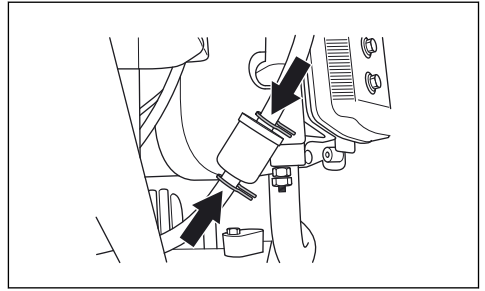
To replace the fuel filter

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



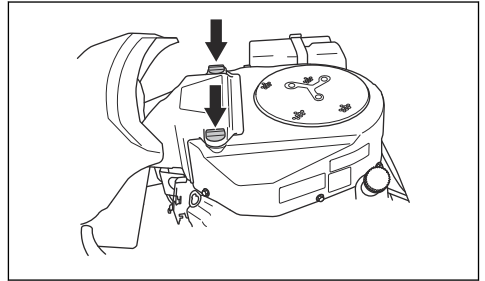
4. Push the new fuel filter into the ends of the hoses. Apply liquid detergent to the ends of the fuel filter to make the connection easier.

5. Push the hose clips against the fuel filter.

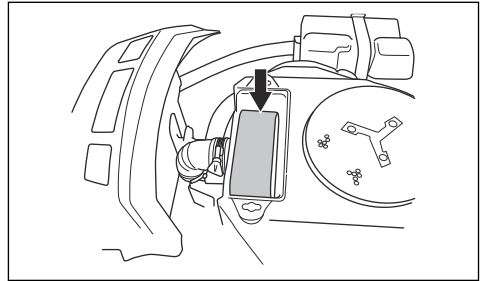


To clean and change the air filter

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

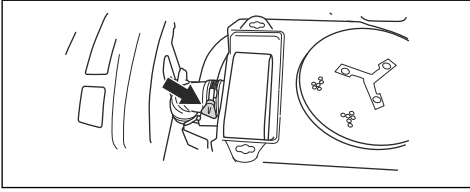


3. Loosen the hose clip that holds the air filter cartridge.
4. Remove the air filter cartridge from the filter housing.



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.

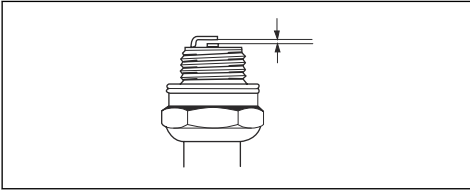
12. Attach the air filter cartridge with the hose clip.



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

To examine and replace the spark plug

1. Open the engine cover.
2. Remove the ignition cable shoe and clean around the spark plug.
3. Remove the spark plug with a 21 mm (0.83") 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. See *Technical data on page 109*.



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. Replace the ignition cable shoe.



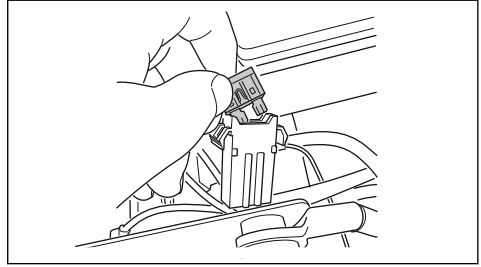
CAUTION: Do not try to start the engine if the spark plug or ignition cable is removed.

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

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



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

- Always disconnect the charger before starting the engine.

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.

To connect the jumper cables



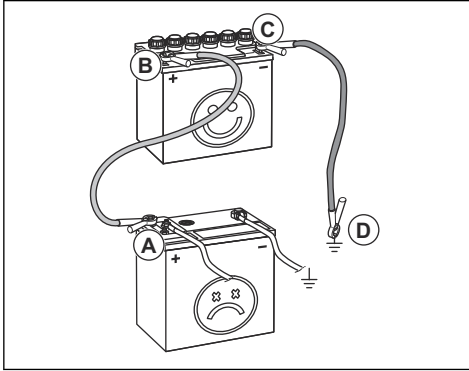
WARNING: Risk of explosion because of explosive gas that comes from the battery. Do not connect the negative terminal of the fully charged battery to or near the negative terminal of the weak battery.



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.

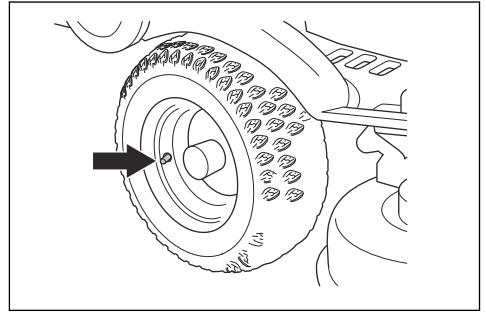
To remove the jumper cables

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.

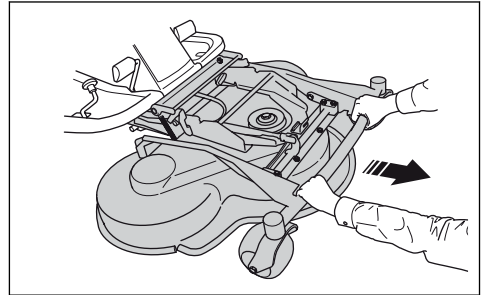
Tire pressure

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

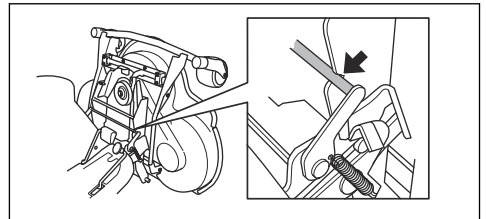


To put the cutting deck in servicing position

1. See steps 1–8 in *To remove the cutting deck on page 89*.
2. Hold the front edge of the cutting deck with two hands and pull forward until it stops.



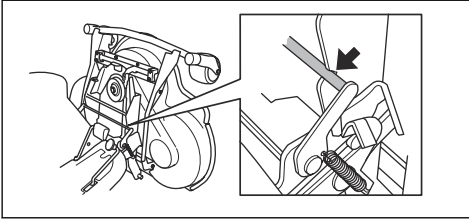
3. Lift the cutting deck to vertical position until a click sound is heard. The cutting deck is locked automatically in the vertical position.



To put the cutting deck in mow position

1. Hold the front edge of the cutting deck with your left hand.

- Loosen the lock with your right hand.

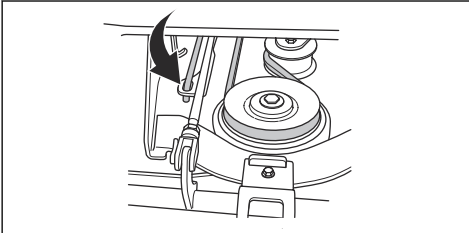


- Fold down the cutting deck and push it in until it stops.

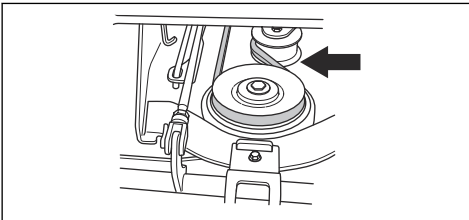


CAUTION: The drive belt can get caught below the cutting deck. Pull on the drive belt loop in the belt holder before you push the cutting deck in.

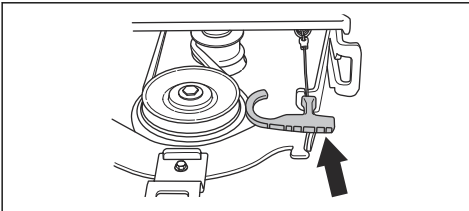
- Lift the cutting height stay from the stay holder and put it in the hole.



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



- Put the spring in the spring holder.

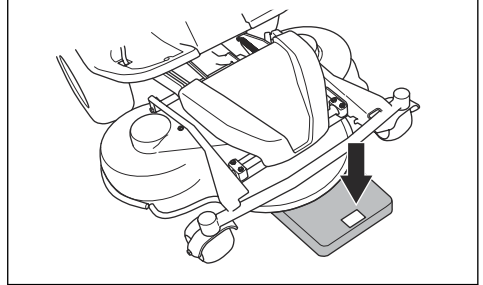


- Attach the front cover.
- Set the cutting height lever in one of the positions 1–10.

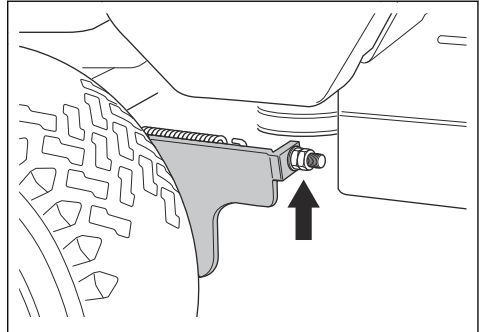
To examine and adjust the ground pressure from the cutting deck

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

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



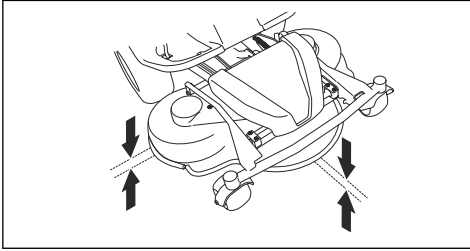
- To make sure that no weight is applied on the support wheels, put a wooden block between the frame and the bathroom scale.
- To adjust the ground pressure, turn the adjustment screws found behind the front wheels on the right and left sides.
- Turn the screws right or left until the ground pressure is between 12 and 15 kg (26.5-33 lb).



To do a check of the parallelism of the cutting deck

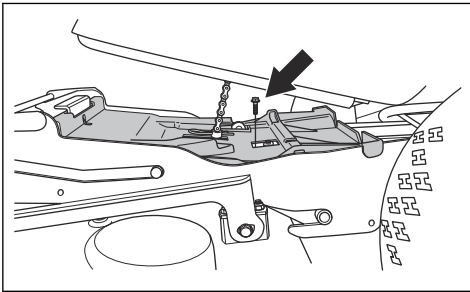
- Make sure that the air pressure in the tires is 60 kPa (0.6 bar / 9.0 PSI).
- Park the product on a level surface.
- Lower the cutting deck to mow position.
- Set the cutting height lever to the middle position.

5. 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.

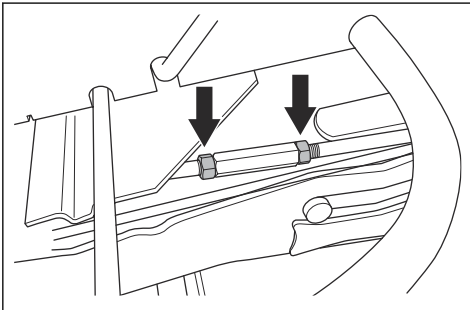


To adjust the parallelism of the cutting deck

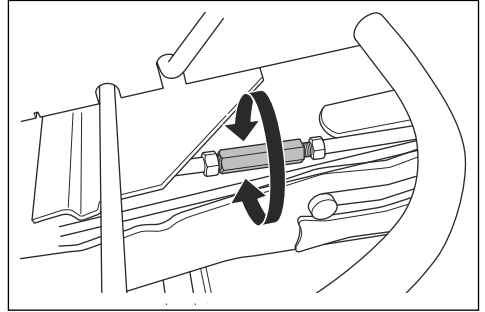
1. Remove the front cover and the right footrest plate.
2. Remove the screws that hold the belt shield and remove the belt shield.



3. Loosen the nuts on the lift strut.



4. 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.



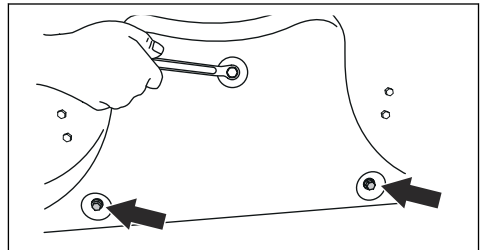
5. Tighten the nuts on the lift strut when the adjustment is done.
6. Do a check of the parallelism. Refer to *To do a check of the parallelism of the cutting deck on page 100*.
7. Attach the belt shield and tighten the screws.
8. Attach the right footrest plate and the front cover.

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.

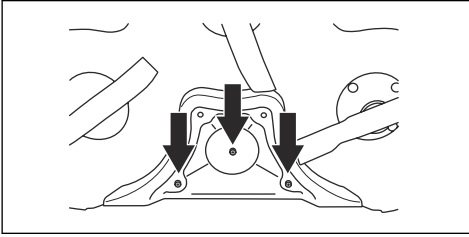


3. Attach 3 M8x15 mm screws in the screw holes for the BioClip plug to prevent damage to the threads.
4. Put the cutting deck back in mow position.
5. Attach the BioClip plug in the opposite sequence.

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

1. Put the cutting deck in servicing position.

- Remove the 3 screws that hold the BioClip plug and remove the plug.



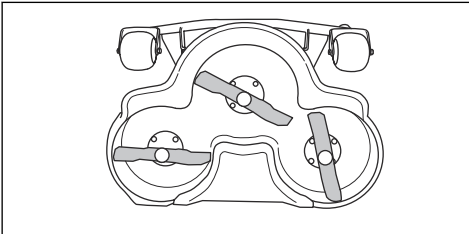
- Put the cutting deck back in mow position.
- Attach the BioClip plug in the opposite sequence.

To examine the blades



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

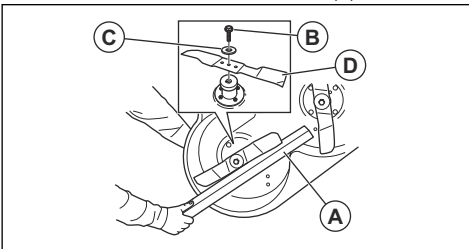
- Put the cutting deck in servicing position.
- Look at the blades to see if they are damaged and if it is necessary to sharpen them.



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

To replace the blades

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



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

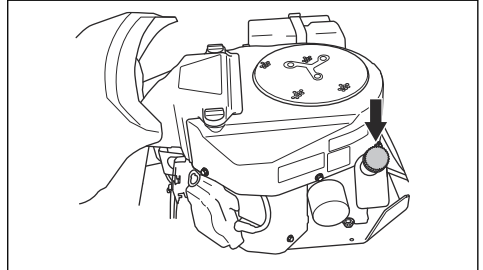


WARNING: Incorrect blade type can cause objects to eject from the cutting deck and cause serious injury. Use only the blades given in *Technical data on page 109*.

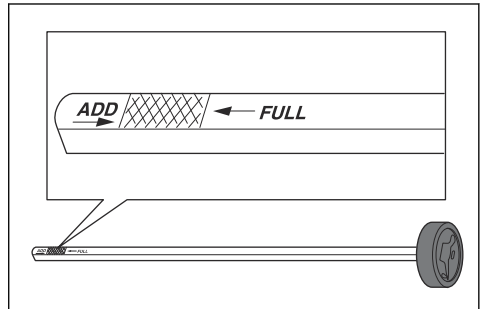
- Attach the blade, the washer and the bolt. Tighten the bolt with a torque of 45–50 Nm.

To do a check of the engine oil level

- Park the product on level ground and stop the engine.
- Open the engine cover.
- Loosen the dipstick and pull it out.



- Clean the oil from the dipstick.
- Put the dipstick back in. Do not tighten it.
- Loosen and pull the dipstick out and read the oil level.
- 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.



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

Note: See *Technical data on page 109* for the types of engine oil that we recommend. Do not mix different types of oil.

- 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 change 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.

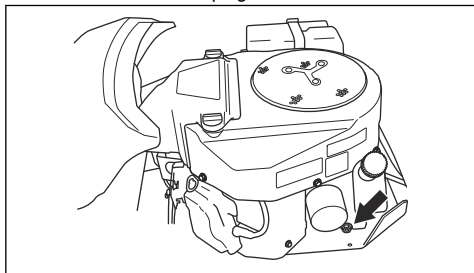


WARNING: Do not operate the engine for more than 1–2 minutes before you drain the engine oil. The engine oil becomes very hot and can cause burn injuries. Let the engine become cool before you drain the engine oil.

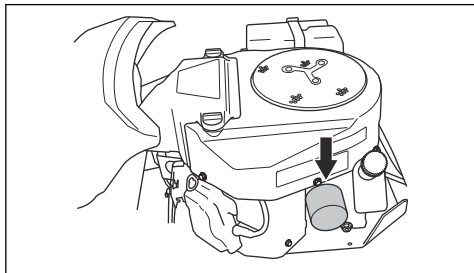


WARNING: If you spill engine oil on your body, clean with soap and water.

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.



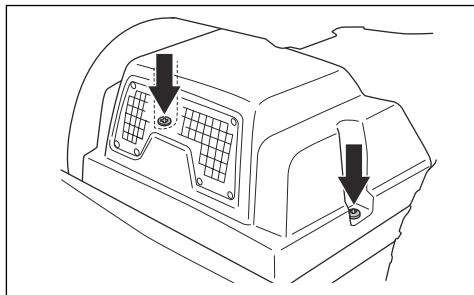
7. Lightly lubricate the rubber seal on the new oil filter with new oil.
8. To attach the oil filter, turn it clockwise by hand until the rubber seal is in position, then tighten a half turn more.
9. Fill with new oil as given in *To do a check of the engine oil level on page 102.*
10. Start the engine and let it idle for 3 minutes.

11. Stop the engine and make sure that the oil filter does not leak.
12. Fill with oil to compensate for the oil held in the new oil filter.

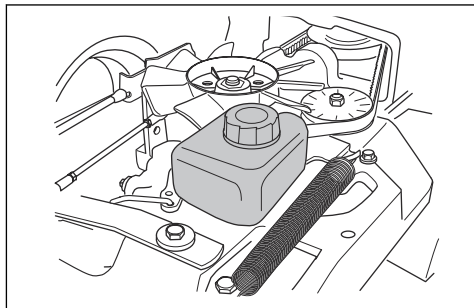
Note: For safe disposal of used engine oil, see *Disposal on page 108.*

To do a check of the transmission oil level

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



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



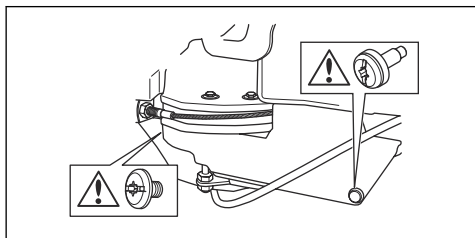
3. Fill with engine oil if the oil level is below the lower line, but do not fill above the top line.

Note: See *Technical data on page 109* for recommended oil for R 316TX and R 316TX AWD, R 316TsX AWD, R 316TX AWD, R 316TsX AWD must have a synthetic oil.

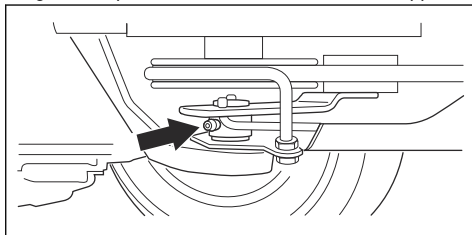
To lubricate the belt adjuster

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

1. Remove the 2 screws that hold the belt shield and lift it off.



2. 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.



3. Attach the belt shield and tighten the 2 screws.

Troubleshooting




Troubleshooting schedule








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

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 93</i> .
	The lift lever for the cutting deck is in mow position. See <i>To lift and lower the cutting deck on page 91</i> .
	The main fuse is blown. See <i>To replace the main fuse on page 98</i> .
	The ignition lock is defective.
	The connection between the cable and the battery is bad. See <i>Battery safety on page 87</i> .
	The battery is too weak. See <i>To charge the battery on page 98</i> .
The engine does not start when the start motor turns the engine over	The starter motor is defective.
	There is no fuel in the fuel tank. See <i>To fill fuel on page 90</i> .
	The spark plug is defective.
	The ignition cable is defective.
The engine does not run smoothly	There is dirt in the carburettor or fuel line.
	The spark plug is defective.
	The carburettor is incorrectly set.
	The air filter is clogged. See <i>To clean and change the air filter on page 97</i> .
	The fuel tank vent is blocked.
	There is dirt in the carburetor or fuel line.

Problem	Cause
The engine apparently has no power	The air filter is clogged. See <i>To clean and change the air filter on page 97.</i>
	The spark plug is defective.
	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 103.</i>
The battery does not charge	The battery is defective. See <i>Battery safety on page 87.</i>
	The connection at the cable connectors on the battery terminals is bad. See <i>Battery safety on page 87.</i>
There is vibration in the product	The blades are loose. See <i>To examine the blades on page 102.</i>
	One or more of the blades are unbalanced. See <i>To examine the blades on page 102.</i>
	The engine is loose.
The cutting result is unsatisfactory	The blades are blunt. See <i>To examine the blades on page 102.</i>
	The grass is long or wet. See <i>To get a good cutting result on page 94.</i>
	The cutting deck is skew.
	There is grass blockage in the cutting deck. See <i>To clean the product on page 95.</i>
	The tire pressure is different on the right and left sides. See <i>Tire pressure on page 99.</i>
	The product is operated at a too high speed. See <i>To get a good cutting result on page 94.</i>
	The engine speed is too low. See <i>To get a good cutting result on page 94.</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°. Refer to <i>Safety instructions for operation on page 85.</i>
		The symbol flashes.	-	You operate the product in a slope >15°. Refer to <i>Safety instructions for operation on page 85.</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 102.</i>
	Battery level indicator	The symbol shows.	1 long sound.	Low voltage. Refer to <i>To charge the battery on page 98.</i>

Symbol	Name	Indication on the display	Sound	Cause
	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 86</i> .
	Parking brake indicator	The symbol shows.	-	The parking brake engaged. Refer to <i>To apply and release the parking brake on page 93</i> .
		The symbol flashes.		Incorrect start procedure. Refer to <i>Start conditions on page 86</i> .
		The symbol flashes quickly.		Defective parking brake. Speak to your Husqvarna servicing dealer.
	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>To start the engine on page 91</i> .
		The symbol flashes quickly.	-	Defective 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 90</i> .
	Bluetooth® indicator	The symbol flashes.	-	The product is locked. Unlock your product with Husqvarna Connect.
	Digital lock	The symbol shows.	-	

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.
- 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

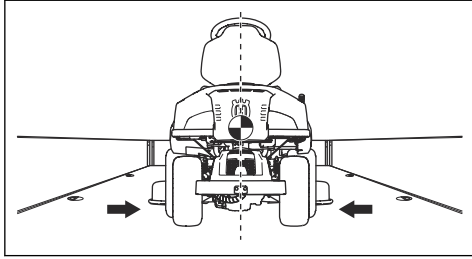
Before you attach the product, you must read and understand the safety chapter. Refer to *Transport safety on page 87*.



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

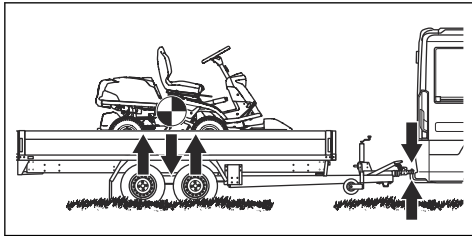
Equipment: 2 approved straps and 4 wedge shaped wheel blocks.

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

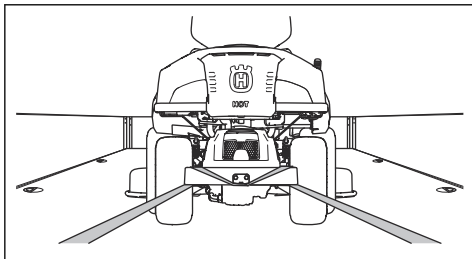


CAUTION: For transport in transport vehicles with a cover. Make sure to let the product become cool before you put the product under the cover.

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.

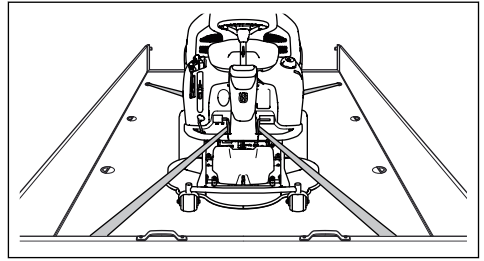


3. Apply the parking brake.
4. If the product has Bluetooth®, lock the product with Husqvarna Connect.
5. Lower the cutting deck to the mow position.
6. Remove all loose objects.
7. Assemble the first strap through the rear transmission frame. Refer to the illustration.

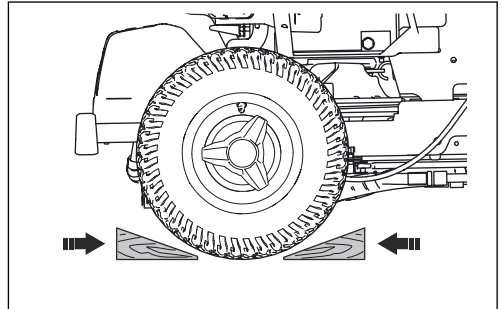


8. Tighten the strap rearward to attach the product to the load area.

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 91*.

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 95*. 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, charge it, and keep it cool during storage.
 - 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 service agent or discard it at a disposal location for used batteries.

Technical data

Technical data

	R 316TX	R 316TX AWD	R 316TsX AWD
Dimensions			
Length without cutting deck, mm	2028	2013	2013
Width without cutting deck, mm	883	883	883
Height, mm	1165	1165	1165
Weight without cutting deck, with empty tanks, kg	238	236	248
Wheel base, mm	887	887	887
Track width, front, mm	712	712	712
Track width, rear, mm	627	627	627
Tire dimensions	16×6.50×8	16×6.50×8	16×6.50×8
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
Engine			
Brand / Model	Kawasaki / FS481V	Kawasaki / FS481V	Kawasaki / FS481V
Nominal engine output, kW ¹⁴	10.6	10.6	10.6
Displacement, cm ³	603	603	603
Max. engine speed, rpm	2900 ± 100	2900 ± 100	3100 ± 100
Fuel, min. octane grade lead-free	91	91	91
Tank volume, litres	12	12	12
Oil	Class SF, SG, SH or SJ SAE40, SAE30, SAE10W-30, SAE10W-40 or SAE5W-20	Class SF, SG, SH or SJ SAE40, SAE30, SAE10W-30, SAE10W-40 or SAE5W-20	Class SF, SG, SH or SJ SAE40, SAE30, SAE10W-30, SAE10W-40 or SAE5W-20
Oil volume incl. filter, litres	1.7	1.7	1.7
Oil volume excl. filter, litres	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

¹⁴ 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.

	R 316TX	R 316TX AWD	R 316TsX AWD
Model	K46H	K574A	K574RA
Oil, class SF-CC	SAE 10W/40	SAE 10W/50 Synthetic	SAE 10W/50 Synthetic
Electrical system			
Type	12V, negative earthed	12V, negative earthed	12V, negative earthed
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
Lamps	Dual LED lights	Dual LED lights	Dual LED lights
Noise emissions¹⁵			
Sound power level, measured dB(A)	97	97	98
Sound power level, guaranteed dB(A)	98	98	99
Sound levels¹⁶			
Sound pressure level at the operators ear, dB(A)	86	86	87
Vibration levels¹⁷			
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			
Type	Combi 94	Combi 94	Combi 94
	Combi 103	Combi 103	Combi 103
	Combi 112	Combi 112	Combi 112

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

¹⁵ Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EC directive 2000/14/EC.

¹⁶ 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).

¹⁷ 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).

Blade	Combi 94	Combi 103	Combi 112
Blade length, mm	358	388	420
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.

Radio frequency data

	R 316TX	R 316TX AWD	R 316TsX AWD
Frequency range, MHz	2402-2480	2402-2480	2402-2480
Output power ¹⁸ , 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.

Warranty

Transmission warranty

Applies to R 316TX AWD, R 316TsX AWD only.

The transmission warranty is only applicable if checks are done of the front and rear wheel rotation speed as given in the maintenance schedule. To prevent damage to the transmission system, let an authorized service agent adjust it. Refer to the table values specified in the workshop manual.

¹⁸ Measured at 2440 MHz.

EC Declaration of Conformity

EC Declaration of Conformity

Husqvarna AB, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declares that the **ride-on lawn mower Husqvarna R 316TX and R 316TX AWD, R 316TsX AWD** from 2014's serial numbers and onwards (the year is clearly stated in plain text on the rating plate with subsequent serial number), comply with the requirements of the COUNCIL'S DIRECTIVE:

- of May 17, 2006 "relating to machinery" **2006/42/EC**.
- of May 8, 2000 "relating to the noise emissions in the environment" **2000/14/EC**.
- of June 8, 2011 "restriction of use of certain hazardous substances" **2011/65/EU**.
- of 16 April, 2014 "relating to radio equipment" **2014/53/EU**.

Information regarding noise emissions and the mowing width, see Technical data.

The product complies with applicable parts of the harmonised standard:

EN ISO 12100-2, EN ISO 5395-1, EN ISO 5395-3, EN ISO 14982, EN 300 328, EN 50581

If not otherwise stated, the above listed standards are the latest published versions.

Notified body: **0404, RISE SMP Svensk Maskinprovning AB, Box 7035, SE-750 07 Uppsala**

has issued reports regarding the assessment of conformity according to annex VI of the COUNCIL'S DIRECTIVE of May 8, 2000 "relating to the noise emissions in the environment" 2000/14/EC.

The certificates have the numbers: 01/901/306, 01/901/307

Huskvarna, 2018-09-30



Claes Losdal, Development Manager/Garden Products (Authorized representative for Husqvarna AB and responsible for technical documentation) Operator presence control

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Original instructions
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