



Please read these instructions carefully and make sure you understand them before using the machine.

English

CONTENTS

Operator's manual for Rider Pro 15, Pro 18 and Pro 18 AWD

Introduction	2
Introduction Driving and transport on public roads	2
lowing	2
Use	2
Serial Number	
Explanation of symbols	4
Safety instructions	
General Use	5
Driving on Slopes	7
Children	
Maintenance	
Transport	10
Presentation	
Accelerator	
Cutting Unit	12
Placement of Controls	
Throttle control	
Choke Lever	13
Chronometer	13
Lifting lever for the cutting unit	14
Cutting Height Adjustment Lever Parking Brake	14
Seat	
Refuelling	
Lights and power outlet	15
Driving	
Mowing Tips	16
Clutch control	
Before Starting	
Starting the engine	18
Driving the Rider	20
Braking	20
Stopping the Engine	21
Maintenance	
Maintenance schedule	22
Dismantling the Rider covers	
Checking and Adjusting the Steering Cables	25
Adjusting the parking brake Checking and Adjusting the Throttle Cable Checking and Adjusting the Choke Cable	26
Checking and Adjusting the Throttle Cable	27
Checking and Adjusting the Choke Cable	27
Inspecting the muffler	27
Replacing the Fuel Filter	28
Checking the Fuel Pump's Air Filter	28
Air supply exhaust pipe	28
Checking the Transmission Air Intake	28

Replacing the air filter Pro 15	29
Replacing the air filter Pro 18	30
Checking the engine's cooling air intake	31
Cleaning the engine and muffler	
Checking the Battery Acid Level	
Ignition system	
Checking the safety system	33
Replacing the light bulbs	34
Fuses	35
Checking the Tyre Pressures	35
Replacing the rear drive belt	
Pro 15 and Pro 18	36
Replacing the hydraulic pump's	
drive belt Pro 18 AWD	38
Replacing the front belt Pro 15, Pro 18	41
Replacing the front belt Pro 18 AWD	41
Fitting the cutting unit	43
Removing the Cutting Unit	44
Checking and Adjusting the Cutting Unit's	
Ground Pressure	
Cutting height	45
Checking the parallelism of the cutting unit	
Adjusting the parallelism of the cutting unit	46
Replacing the Cutting Unit's Belts	47
The Cutting Unit's Service Position	
Placing in the Service Position	
Inspecting the blades	51
Removing the BioClip plug (Combi)	52
Lubrication	53
Lubrication chart Pro 15	53
Lubrication chart Pro 18 Lubrication chart Pro 18 AWD	54
General	
Lubricating the cables Lubrication instructions according	00
to the schedule	56
Trouble shooting chart	
Storage	
Winter Storage	65
Guard	
Service	
Wiring diagram	
Technical data	
EU Declaration of Conformity	71
Service Journal	

IMPORTANT INFORMATION

Read carefully through the Operator's manual so that you know how to use and maintain the Rider before you use it.

For service measures other than those described in this manual, please contact an authorised dealer that provides parts and service.

INTRODUCTION

Congratulations

Thank you for purchasing a Husqvarna Rider. Husqvarna Riders have been designed according to a unique concept with a front mounted cutting unit and patented rear wheel steering. The Rider is built to give maximum efficiency even in small and confined areas. Collected controls and a hydrostatic transmission controlled by pedals also contribute to the machine's performance.

This Operator's Manual is a valuable document. Following the instructions (use, service, maintenance, etc.) can considerably increase the life span of your machine and even increase its resale value.

When you sell your Rider, make sure to give the operator's manual to the new owner.

The final chapter of this operator's manual comprises a Service Journal. Ensure that service and repair work is documented. A well-kept service journal reduces service costs for the season-based maintenance and affects the machine's resale value. Take the operator's manual along when the Rider is left to the workshop for service.

Driving and Transport on Public Roads

Check applicable road traffic regulations before driving and transport on public roads. You should always use approved fasteners during transport and ensure that the machine is well secured.

Towing

Your machine is equipped with a hydrostatic transmission and, if necessary, you should only tow the machine over short distances and at a low speed, otherwise there is a risk of damaging the transmission. The power transmission must be disengaged when towing, see Clutch Control.

Use

This machine has been designed to mow grass on lawns and other open and level ground surfaces without obstacles such as stones, tree stubs, etc., even when the machine is equipped with special accessories provided by the manufacturer, for which the operating instructions are enclosed with the delivery. All other types of use are incorrect. The manufacturer's instructions with regard to driving, maintenance, and repair must be followed precisely.

The machine may only be operated, maintained, and repaired by persons that are fully conversant with the machine's special characteristics and safety regulations.

Accident prevention regulations, other general safety regulations, occupational safety rules, and traffic regulations must be observed.

Unauthorised modifications to the design of the machine may absolve the manufacturer from liability for any resulting personal injury or property damage.

INTRODUCTION

Proper Service

Husqvarna's products are sold all over the world and only by specialised retail traders offering complete service. This ensures that you as a customer receive only the best support and service. Before the product is delivered, the machine has, for example, been inspected and adjusted by your retailer, see the certificate in the Service Journal in this operator's manual.

When you need spare parts or support in questions about service, warranty issues, etc., please consult the following professional:

This operator's manual belongs to the machine bearing serial number:	Engine	Transmission	

Serial Number

The serial number can be found on the printed plate attached to the front, left-hand side under the seat. Stated on the plate, from the top, are:

- The machine's type designation.
- The manufacturer's type number.
- The machine's serial number.

Please state the type designation and serial number when ordering spare parts.

The engine's serial number is found on a barcode sticker. This is placed on the left side of the crankcase, in front of the starter. The sticker states:

- The engine's serial number (E/NO).
- · Code.

Please state these when ordering spare parts.

The transmission's serial number is stated on the barcode decal located on the front of the housing on the left-hand drive axle:

- The type designation is stated above the barcode and starts with the letter K.
- The serial number is stated above the barcode and has the prefix s/n.
- The manufacturer's type number is stated under the barcode and has the prefix p/n.

Please state the type designation and serial number when ordering spare parts.

KEY TO SYMBOLS

These symbols can be found on the Rider and in the operator's manual. Study them carefully so you understand their significance.



Read the operator's manual.







Reversing

Tyre pressures

Forward







Oil level



Use hearing protection

STARI

 \square



with the directive of the European Community. The

machine's emission is indicated in the TECHNI-

Cutting height



Slow

Hydrostatic free wheeling

Starting instructions

Lift up the cutting unit

Apply the parking brake. Use the choke if the engine is cold.

Starting the engine

position

driving

Hydrostat pedals in the neutral

Disengage the parking brake before



Parking brake



across a slope

Never drive directly



Warning

CE conformity marking

Drive very slowly

without the cutting

unit

CAL DATA chapter and on the decal.

Never use the Rider if persons, especially children or pets, are in the immediate vicinity.

θ

START

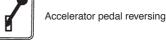


Never carry passengers on the Rider or on its tools

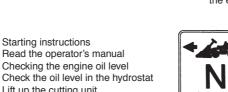
Do not insert your hands or feet under the cover when the engine is running







Neutral position



Switch off the engine and remove the ignition cable before carrying out repairs or maintenance

Accelerator pedal forward



Rotating blades Rider overturning



Safety Instructions

These instructions are for your safety. Read them carefully.

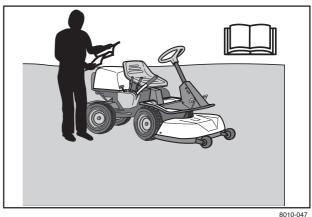


WARNING!

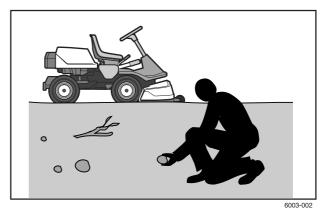
The inserted symbol means that important safety instructions need to be observed. It applies to your safety.

General Use

- Read all the instructions in this operator's manual and on the machine before you start it. Ensure you understand them and then observe them.
- Learn how to use the machine and its controls safely and learn to how to stop quickly. Also learn to recognise the safety decals.
- Only allow the machine to be used by adults who are familiar with its use.
- Make sure nobody else is in the vicinity of the machine when you start the engine, engage the drive or drive off.
- Make sure animals and people maintain a safe distance from the machine.
- Stop the machine if any one enters the working area.
- Clear the area of objects such as stones, toys, wires, etc. that may become caught in blades and be thrown out.
- Look out for the ejector and do not direct it towards anyone.
- Stop the engine and prevent it from starting before you clean the cutting unit.
- Remember the operator is responsibility for danger or accidents.
- Never carry passengers. The machine is only intended to be used by one person.
- Always look downwards and backwards before and while reversing. Keep watch for both large and small obstacles.
- · Slow before cornering.
- · Switch off the blades when you are not mowing.



Read the operator's manual before starting the machine



Clear the area of objects before mowing



Never take passengers



WARNING!

This machine can sever hands and feet as well as throw objects. Failure to observe the safety instructions can result in serious injuries.

- Take care when rounding a fixed object, so that the blades do not hit it. Never run the machine over foreign objects.
- Only use the machine in daylight or in other welllit conditions. Keep the machine at a safe distance from holes or other irregularities in the ground. Pay attention to other possible risks.
- Never use the machine if you are tired, if you have consumed alcohol, or if you are taking other drugs or medication that can affect your vision, judgment or co-ordination.
- Keep an eye on the traffic when working close to a road or when crossing it.
- Never leave the machine unsupervised with the engine running. Always stop the blades, apply the parking brake, stop the engine and remove the keys before leaving the machine.
- Never allow children or other persons not trained in the use of the machine to use or service it. Local laws may regulate the age of the user.



WARNING!

Engine exhaust, some of its constituents and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects or other reproductive impairment. The engine emits carbon monoxide, which is a colourless, poisonous gas. Do not use the machine in enclosed spaces.



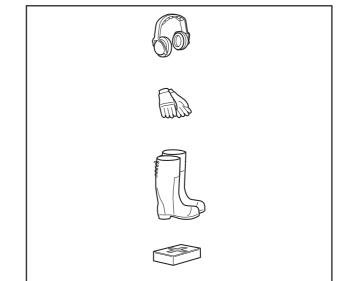
Keep children away from the work area



WARNING!

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

- Use hearing protection to minimise the risk of hearing impairment.
- Wear approved protective glasses or full-face visor during assembly and when operating.
- Never wear loose fitting clothes that can catch in moving parts.
- Never use the machine when barefoot. Always wear protective shoes or protective boots, preferably with steel toes.
- Make sure that you have first aid equipment close at hand when using the machine.



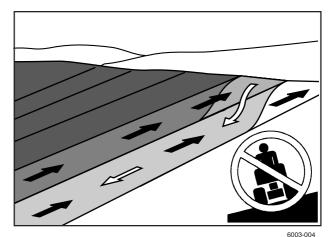
Personal protective equipment

Driving on Slopes

Driving on slopes is one of the operations where the risk of the driver losing control of the machine or of it overturning is the greatest; this can result in serious injury or death. All slopes demand extra care. If you cannot reverse up a slope or if you feel unsure, do not mow it.

Proceed as follows:

- Remove obstacles such as stones, branches, etc.
- · Mow upwards and downwards, not sideways.
- Do not use the machine on ground that slopes more than 15°.
- Avoid starting or stopping on a slope. If the tyres start to slip, stop the blades and drive slowly down the slope.
- · Always drive smoothly and slowly on slopes.
- Do not make any sudden changes in speed or direction.
- Avoid unnecessary turns on slopes, if necessary, turn slowly and gradually downwards if possible.
- Watch out for and avoid driving over furrows, holes and bumps. It is easier for the machine to overturn on uneven ground. Tall grass can hide obstacles.
- Drive slowly. Do not turn the wheel sharply. The machine engine-brakes better in low gear.
- Take extra care if any attachments are fitted that can change the stability of the machine.
- Do not mow too close to edges, ditches or banks. The machine can suddenly overturn if one wheel comes over the edge of a steep slope or a ditch, or if an edge gives way.
- Do not mow wet grass. It is slippery, and tyres can lose their grip so that the machine skids.
- Do not try to stabilize the machine by putting your foot on the ground.
- When cleaning under the machine, it may never be driven near verges or ditches.
- Follow the manufacturer's recommendations regarding wheel weights or counterbalance weights to increase stability.



Mow upwards and downwards on slopes, not sideways.



Be extra cautious when driving on slopes

Children

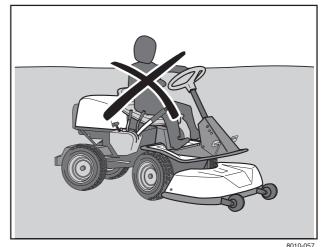
- Serious accidents may occur if you fail to be on your guard for children in the vicinity of the machine. Children are often attracted to the machine and mowing. Never assume that children will stay put where you last saw them.
- Keep children away from the area to be mowed and under close supervision by another adult.
- Keep an eye out and shut off the machine if children enter the work area.
- Before and during reversing procedures, look behind you and down for small children.
- Never allow children to ride along. They can fall off and seriously injure themselves or be in the way for safe manoeuvring of the machine.
- Never allow children to operate the machine.
- Be particularly careful near corners, bushes, trees or other objects that block your view.

Maintenance

- Stopping the engine. Prevent the engine from starting by removing the spark plug cables from the spark plugs or by removing the ignition key before making any adjustments or performing maintenance.
- · Never fill the fuel tank indoors.
- Petrol and petrol fumes are poisonous and extremely flammable. Be especially careful when handling petrol, as carelessness can result in personal injury or fire.
- Only store fuel in containers approved for the purpose.
- Never remove the fuel cap and fill the petrol tank while the engine is running.
- Allow the engine to cool before refuelling. Do not smoke. Do not fill petrol in the vicinity of sparks or naked flames.
- Handle oil, oil filters, fuel and the battery carefully, of environmental considerations. Follow the local recycling requirements.
- Electrical shocks can cause injuries. Do not touch cables when the engine is running. Do not test the ignition system with your fingers.
- Sparking can occur when working with the battery and the thick cables in the starter motor circuit.

This can cause the battery to explode, fire or eye injuries.

Sparking in the circuit can not occur once the battery's power connection cable (usually the black negative cable) has been disconnected.

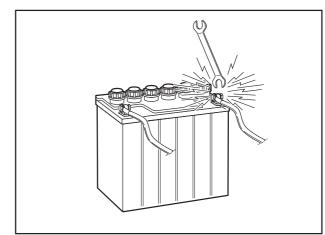


Never allow children to operate the machine



Never fill the fuel tank indoors

8010-058



Risk of sparking

IMPORTANT INFORMATION

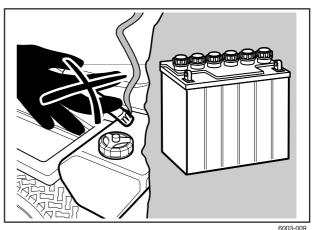
Avoid sparking and its consequences by:

- Wearing protective glasses.
- Make sure that the fuel cap is fitted and that no flammable liquids are stored in an open container.
- Do not work on the starter motor circuit in the vicinity of spilt fuel.
- Disconnect the battery's power connection cable (usually the black negative cable) first and connect it last.
- Exercise care with tools so that short circuiting does not occur.
- Do not short circuit across the starter relay's connections to run the starter motor.
- If leaks arise in the fuel system, the engine must not be started until the problem has been resolved.
- Store the machine and fuel in such a way that there is no risk that leaking fuel or fumes can cause any damage.
- Check the fuel level before each use and leave space for the fuel to expand, because the heat from the engine and the sun may otherwise cause the fuel to expand and overflow.
- Avoid overfilling. If you spill petrol on the machine, wipe up the spill and wait until it has evaporated before starting the engine. If you spill petrol on your clothing, change your clothing.
- Allow the machine to cool before performing and actions in the engine compartment.
- Be especially careful when handling battery acid. Acid on the skin can cause serious corrosive injuries. In the event of spillage on the skin wash immediately with water.
- Acid in the eyes can cause blindness, contact a doctor immediately.
- Take care with battery maintenance. Explosive gases form in the battery. Never perform maintenance on the battery while smoking or in the vicinity of open flames or sparks. This can cause the battery to explode and cause serious injuries.
- Make sure all nuts and bolts are tightened correctly and that the equipment is in good condition.
- Do not modify safety equipment. Check regularly to be sure it works properly. The machine must not be driven if protective plates, protective covers, safety switches or other protective devices are not fitted or are defective.



WARNING! The engine and the exhaust system become very hot during operation. Risk of burn injuries if touched.

WARNING! The battery contains lead and lead pollutants, chemicals that are considered to cause cancer, birth defects or other reproductive impairment. Wash you hands after touching the battery.

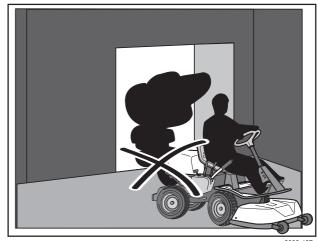


Do not smoke when carrying out maintenance

- Do not change the setting of governors and avoid running the engine at excessively high revs. If you run too fast, you risk damaging the machine components.
- Observe the risk of injury caused by moving or hot parts if the engine is started with the engine cover open or protective cowlings removed.
- Never use the machine indoors or in spaces lacking proper ventilation. Exhaust fumes contain carbon monoxide, an odourless, poisonous and highly dangerous gas.
- Stop and inspect the equipment if you run over or into anything. If necessary, make repairs before starting.
- Never make adjustments with the engine running.
- The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer.
- The blades are sharp and can cause cuts. Wrap the blades or wear protective gloves when handling them.
- Check regularly that the parking brake works. Adjust and maintain as required.
- The mulching unit should only be used where better quality mowing is required and in known areas.
- Reduce the risk of fire by removing grass, leaves and other debris that may have fastened on the machine. Allow the machine to cool before putting it in storage.

Transport

- The machine is heavy and can cause serious crush injuries. Be especially careful when it is loaded in or out of a car or on and off of a trailer.
- Use an approved trailer to transport the machine.
 Activate the parking brake and secure the machine using approved fasteners, such as straps, chains or ropes when transporting.
- Check and observe local road traffic regulations before transporting or driving the machine on roads.



Never drive the machine in an enclosed space



Regularly clean grass, leaves and other debris from the machine

IMPORTANT INFORMATION

The parking brake is not sufficient to lock the machine during transport. Ensure you secure the machine firmly to the transporting vehicle.

Presentation

Congratulations on your choice of an exceptionally high quality product. This operator's manual describes Rider Pro 15, Pro 18 and Pro 18 AWD.

The machines are equipped with a four-stroke V-Twin engine from Kawasaki. The figures denote the amount of horse power.

The power transmission from the engine is handled by a hydrostatic gearbox, which allows variable variation of the speed by using the pedals.

One pedal to drive forwards and one pedal to reverse.

Pro 15 is the smallest professional machine in the Rider series.

Pro 18 is equipped with power steering.

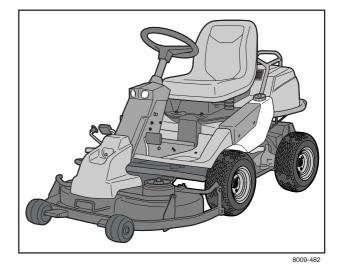
Pro 18 AWD is equipped with power steering and all wheel drive.

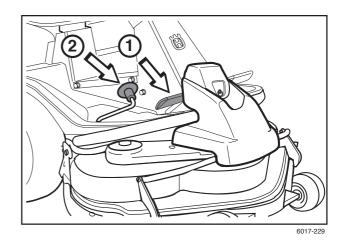
Accelerator

The speed of the machine is variably controlled using two pedals. Pedal (1) is used to travel forwards and pedal (2) to reverse.

WARNING!

Make sure that no branches can interfere with the pedals when mowing under bushes. Risk for unintentional manoeuvring.





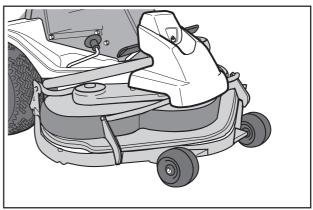
Cutting Unit

The machines can be equipped with numerous attachments.

The BioClip unit finely chops the grass several times before returning it to the lawn as fertiliser.

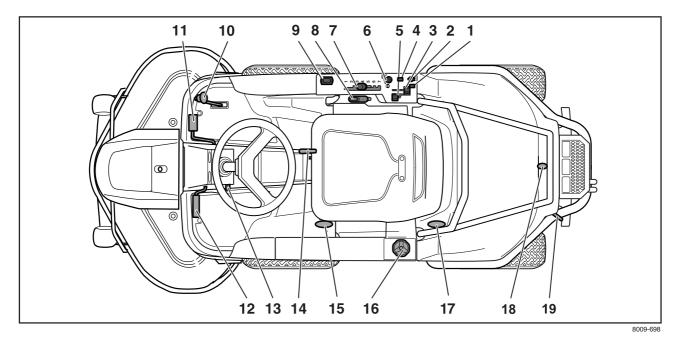
The Combi unit functions as a BioClip unit when a BioClip plug is fitted, but can be reset to rear ejection by removing the BioClip plug.

See "Maintenance \ Checking the Blades" for identification of the cutting unit.





Placement of Controls



- 1. Switch for the power outlet
- 2. Power outlet
- 3. Throttle regulates the engine speed
- 4. Switch for the lights
- 5. Choke Lever
- 6. Ignition key
- 7. Cutting height adjustment lever
- 8. Lifting lever for the cutting unit with lock button
- 9. Hour meter

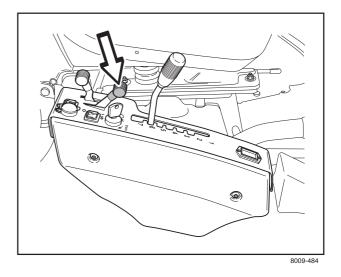
- 10. Accelerator for reversing
- 11. Accelerator for driving forwards
- 12. Parking brake
- 13. Lock button for parking brake
- 14. Lever for adjusting the seat
- 15. Lever to disengage the driving front axle AWD
- 16. Fuel cap
- 17. Lever to disengage the driving rear axle AWD
- 18. Hood lock
- 19. Lever to disengage the drive on Pro 15, Pro 18

Throttle Control

The throttle is used to control the speed of the engine and thereby also the rotation speed of the blades.

In order to increase or decrease the engine speed, the control is moved forwards or backwards respectively.

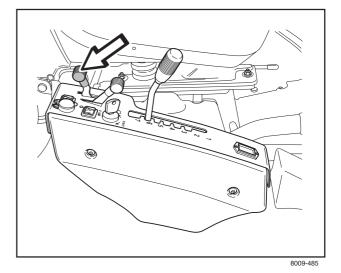
Avoid idling the engine for long periods, as there is a risk of carbon build-up on the spark plugs.



Choke Lever

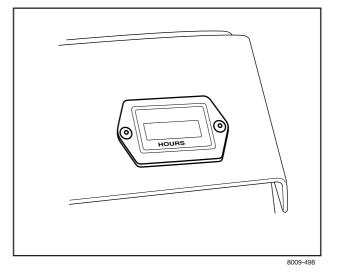
The choke lever is used for cold starts in order to provide the engine with a richer fuel mixture.

For cold starts, the lever shall be moved backwards to its endpoint.



Chronometer

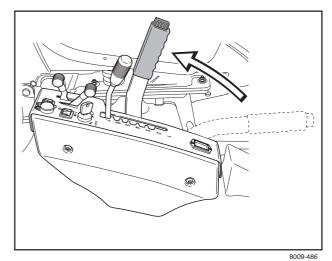
The chronometer shows how many hours the engine has been running. Any time when the engine is not running but the ignition is switched on is not registered. The last digit shows tenths of an hour (6 minutes).



Lifting Lever for the Cutting Unit

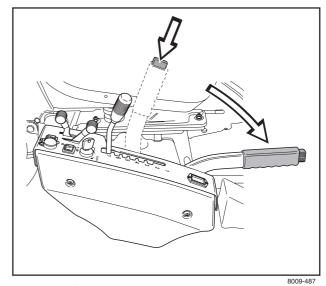
The lifting lever is used to put the cutting unit in either the transport or mowing positions.

 Pull the lever backwards to the locked position to engage the transport position. The unit is raised and the blades stop rotating.



Raising the cutting unit

- Depress the lock button and move the lever forwards to engage the mowing position. The unit is lowered and the blades begin to rotate.
- 3. The lever can also be used to temporarily adjust the cutting height, for example, with a small mound in the lawn.



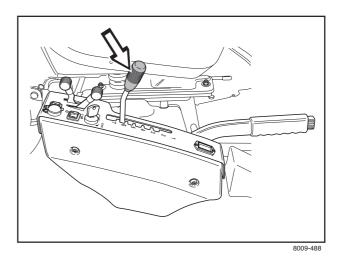
Lowering the cutting unit

Cutting Height Adjustment Lever

Using the lever, the cutting height can be adjusted in 7 different positions.

Combi 94	30-90 mm (1 3/16" - 3 1/2")
Combi 103-unit	40-80 mm (1 9/16" - 3 1/8")
Combi 112	40-100 mm (1 9/16" - 3 7/8")

It is important that the air pressure in both front wheels is equal, 60 kPa / 0.6 bar / 9 PSI, to produce an even cutting height.



Parking Brake

The parking brake is activated as follows:

- 1. Press down the parking brake pedal (1).
- 2. Press the lock button on the steering column (2) in fully.
- 3. Release the parking brake pedal while keeping the button pressed in.

The parking brake lock is automatically disengaged when the brake pedal is pressed down.

Seat

The seat has a hinged mounting on the front edge and can be folded forwards.

The seat can also be adjusted lengthways.

When making adjustments, the lever under the front edge of the seat is moved to the left, after which the seat can be moved backwards or forwards to the desired position.

The seat springs can be adjusted by moving the rubber blocks in their brackets on the underside of the seat. Set both blocks in the front, centre or rear positions.

Refuelling

The engine should be run on a minimum of 87octane unleaded petrol (not mixed with oil). It can be beneficial to use environmentally adapted alkylate petrol. See also "Technical Data" concerning methanol and ethanol fuels.

Do not fill the tank completely, leave an expansion area of at least 2.5 cm (1").

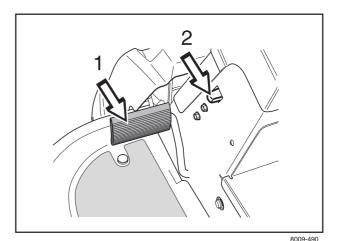


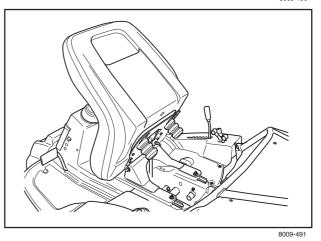
WARNING! Petrol is highly flammable. Observe caution and fill the tank outdoors (see the safety instructions).

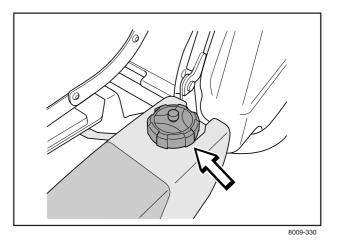
Lights and Power Outlet

The lights are switched on and off using the switch (1) on the control panel.

A seat heater or mobile phone charger are examples of articles that can be connected to the power socket (2). The power outlet is switched on and off using power switch (3) on the control panel. The voltage is 12V. The electrical outlet socket is fuse protected by its own fuse.



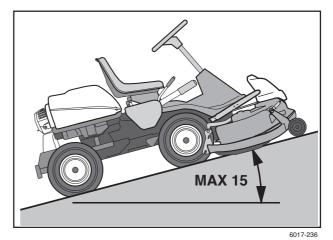




ADD-546

WARNING!

Do not use the Rider on ground that slopes more than 15°. Mow upwards and downwards on slopes, never sideways. Avoid sudden directional changes.



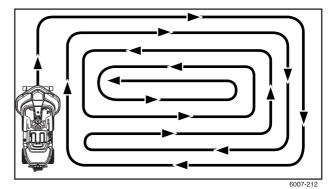
WARNING! Clear the lawn of stones and other objects that can be thrown out by the blades.



- Find and mark out any stones and other fixed objects to avoid colliding with them.
- Start with a high cutting height and reduce it until the desired mowing result is obtained.
- The best mowing result is achieved with high engine revs (the blades rotate quickly) and low speed (the Rider moves slowly).
 If the grass is not too long and thick the driving speed can be increased without significantly impairing the mowing result.
- The finest lawns are obtained if they are mown frequently. Mowing will be more even and the clippings will be more evenly distributed across the area.

The overall mowing time will not be longer as higher driving speeds can be selected without impairing the mowing result.

- Avoid mowing wet lawns. The mowing result will be poorer as the wheels will sink into the soft lawn.
- Rinse off the underside of the cutting unit after use with water, do not use a high pressure washer. When cleaning, the cutting unit shall be moved into the service position.
- It is important to mow frequently when mowing with the mulching function.

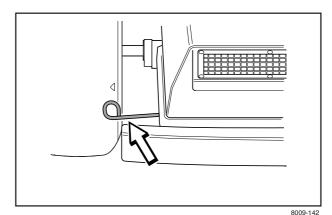


Mowing patterns

Clutch Control

The clutch control must be pulled out in order for the Rider to be moved when the engine is shut off.

The figure shows the clutch control pulled out.



Pro 15, Pro 18

Pro 18 AWD has one control for the front axle and one control for the rear axle.

Pull the controls to their end positions. Do not use an intermediate position.

Rear Axle

Front Axle

front wheel.

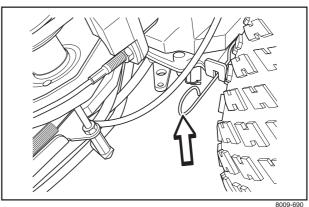
The control is positioned on the inside of the left rear wheel.

• Forward control (pulled out), drive system disengaged.

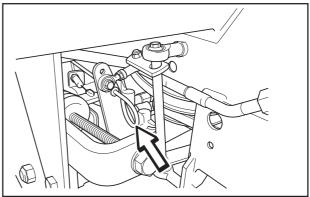
• Rear control (pushed in), drive system engaged.

The control is positioned on the inside of the left

Rear control (pulled out), drive system disengaged.Front control (pushed in), drive system engaged.



Pro 18 AWD rear



Pro 18 AWD front

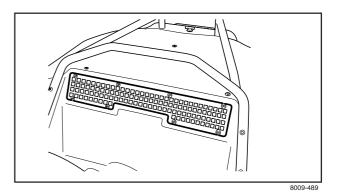
Before Starting

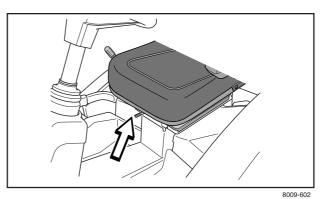
IMPORTANT INFORMATION

The air intake grille in the engine cover behind the driver's seat must not be blocked by, for example, clothing, leaves, grass or dirt.

Impaired cooling of the engine. Risk of major engine damage.

- Read the safety instructions and the presentation of the Rider before starting.
- Perform the daily maintenance before starting, see "Maintenance\Maintenance schedule".
- · Adjust the seat to the desired position.

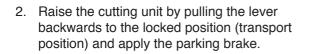


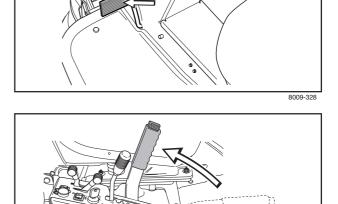


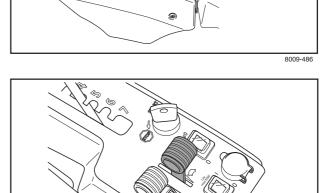
Starting the Engine

1. Activate the parking brake by pressing down the pedal. Press in the release button if necessary.

The engine can not be started if the parking brake is not pressed down.

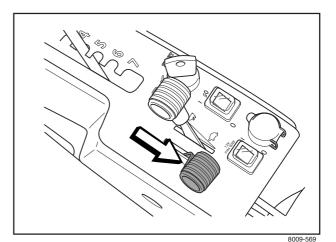






3. Move the throttle to the middle position.

4. If the engine is cold, the choke control shall be moved backwards to its end position.



5. Turn the ignition key to the start position.

6. When the engine starts, immediately release the ignition key so that it returns to the neutral position.

IMPORTANT INFORMATION

Do not run the starter motor for more than 5 seconds at a time. If the engine does not start, wait about 15 seconds before trying again.

- 7. Move the choke lever gradually forward once the engine has started.
- 8. Set the desired engine speed with the throttle.

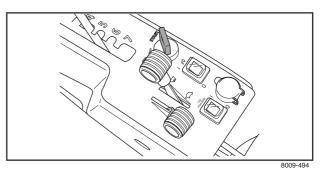
Allow the engine to run at a moderate speed, "half throttle", for 3–5 minutes before loading it too heavily.

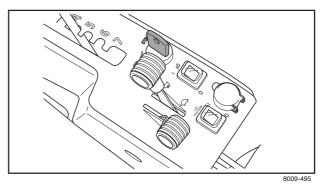
When mowing, use 3/4 to full throttle.

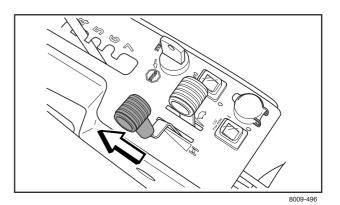


WARNING!

Never run the engine indoors, in enclosed or badly ventilated areas. Engine exhaust fumes contain poisonous carbon monoxide







 $\mathsf{English}-19$

Driving the Rider

- 1. Release the parking brake by first pressing down the parking brake pedal and then releasing the brake pedal.
- 2. Carefully press down one of the pedals until the required speed is attained.

Pedal (1) is pressed down to travel forwards and pedal (2) to reverse.

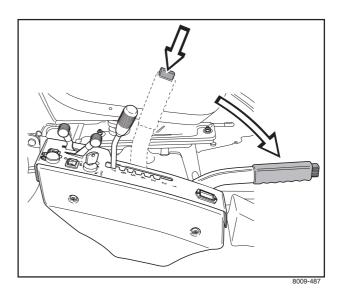


WARNING! Make sure that no branches can interfere with the pedals when mowing under bushes. Risk for unintentional manoeuvring.

3. Press in the lock button on the lifting lever and lower the cutting deck.

IMPORTANT INFORMATION

The life span of the drive belts is increased significantly if the engine runs at a low speed when the blades are engaged. Therefore apply full throttle first when the cutting unit has been moved to the mowing position. 6004-206



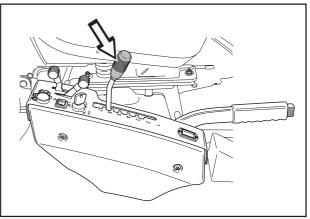
4. Select the required cutting height (1-7) using the cutting height lever.

It is important that the air pressure in both front wheels is equal, 060 kPa / 0.6 bar / 9 PSI, to produce an even cutting height.

Braking

Release the drive pedals. The machine slows and is stopped by the drive system. Do not use the parking brake as the drive brake.

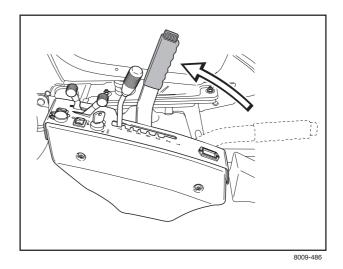
Quicker braking is possible if you press down the drive pedal for the opposite direction.

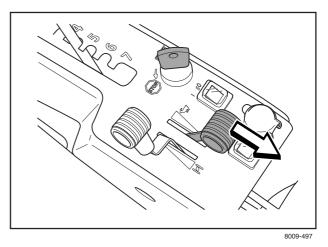


Stopping the Engine

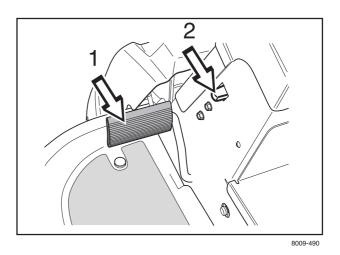
If the engine has been worked hard, it is preferable to let the engine idle for a minute so it is running at its normal working temperature when it is stopped. Avoid idling the engine for long periods, as there is a risk of carbon build-up on the spark plugs.

- 1. Lift up the cutting unit by pulling the lever backwards to its locked position.
- 2. Move the throttle control to the "MIN" position". Turn the ignition key to "STOP".





3. When the Rider is at a standstill, hold down the parking brake (1) and press in the lock button (2).



Maintenance Schedule

The following is a list of maintenance procedures that must be performed on the rider. For points marked with footnote number 4, turn to an authorised service representative.

• = Described in this operator's manual. O = Not described in this operator's manual.

Maintenance	Page	Daily main- tenance		-				· ·		Maintenance interval hours			
		before		main- tenance	once a year	25	50	100					
Check for fuel and oil leaks	-	0											
Check the parking brake	15												
Check the engine's oil level (every refuelling)	59												
Check the fuel pump's air filter	28												
Check the safety switch, seat	33												
Check the safety switch, lifting lever	33												
Check the safety switch, pedal system	33												
Check/clean the engine's cooling air intake.	31								1				
Check the cutting unit:	45		\bullet						1				
 mounting of blades 	51		\bullet										
• condition of the blades (sharpness, shape, etc)	51								1				
Check the steering cables (any play, etc.)	25												
Check fastenings (screws, nuts, etc.)	-		О						1				
Start the engine and blades,									1				
listen for abnormal sounds	-		О						1				
Clean under the cutting unit	48												
Clean the transmission's cooling air intake	28								1				
Inspecting the muffler	27								1				
Check the battery's acid level	31								1				
Check the transmission oil level	61												
Check the condition of belts, belt pulleys, etc.	-			0									
Check for damage	-			0					1				
Check the tyre pressures (60 kPa / 9 PSI)	35												
Check to ensure that the cable holder									1				
in the middle is undamaged	-			0									
Clean thoroughly around the engine	31								1				
Clean carefully around the muffler	31								1				
Clean thoroughly around the transmission (s)	28								1				
Clean around all belts, belt pulleys, etc.	-												
Lubricate the belt tensioner (nipple)	59								1				
Lubricate the three-point link	58												
Lubricate the driver seat	58								1				
Lubricate all cables	56												
Lubricate links in the cutting unit	56								1				
Clean the frame tunnel	-			0									
Lubricate the pedal mechanism				-					1				
in the frame tunnel	57								1				
Lubricate the hydrostatic cable with linkage	60								1				
Lubricate the parking brake cable	61+63								1				
Lubricate the throttle	58								1				
Lubricate the choke control	58								1				
Lubricate the guide chain in the frame tunnel	57												
Check the steering cables in the frame tunnel	25								1				
Check the steering cables in the frame tunnel	20			-					1				

Maintenance	Page	Daily main-		-		-		-				-		Weekly ³⁾ main-	ly ³⁾ At least	Maintenance interval hours		
		before		tenance	once a year	25	50	100	300									
Lubricate the right, rear axle bearing																		
Pro 18 AWD	63			•														
Clean the engine's cooling air intake	31				•													
Clean the air filter's pre-cleaner																		
(foamed plastic)	29+30				•													
Change the engine oil ¹⁾	60						•1)	•1)										
Clean the air filter's filter cartridge 2)																		
(paper filter)	29+30																	
Check/adjust the cutting height	45																	
Check/adjust the parking brake	26																	
Inspect the flame proofing/spark arrestor																		
(extra equipment)	-				0		0											
Replace the engine oil filter (every 200 hours)	62				•													
Replace the hydraulic oil filter (every 200 hours) ⁵	62																	
Clean/replace the spark plugs	32				•													
Change the inline fuel filter	28				•													
Clean the pulse air filter	28																	
Clean the cooling fins	28																	
Check the play in the engine valves ⁴⁾	-				0				0									
Check the need of an oil change ⁴⁾ and filter																		
replacement ⁵⁾ in the gearbox/hydraulic system	-				0			0										
(every 200 ⁶⁾ /500 hours)																		
Replace the suction filter in the hydraulic tank																		
(every 200 hours) ⁶⁾	-				0			0										
Replace the air filter's pre-cleaner																		
(foamed plastic) ²⁾	29+30																	
Replace the air filter (paper filter) ²⁾																		
(every 200 hours)	29+30																	
Perform the 300-hour service ⁴⁾	-				0				0									

¹⁾ First change after 8 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours. ²⁾ Maintenance and replacement are required more often in dusty conditions. ³⁾ With daily use, the Rider should be lubricated twice weekly. ⁴⁾ Performed by an authorised service workshop. ⁵⁾ Pro 18 only. ⁶⁾ Pro 18 AWD only. Replace first after 50 hours.

• = Described in this operator's manual.

O = Not described in this manual.



WARNING!

No service operations may be performed on the engine or cutting unit unless:

- The engine has been stopped.
- The ignition key has been removed.
- The ignition cables have been removed from the spark plugs.
- The parking brake is on.
- The cutting unit is disengaged.

Dismantling the Rider Covers

The engine becomes accessible for service when the engine cover is opened.

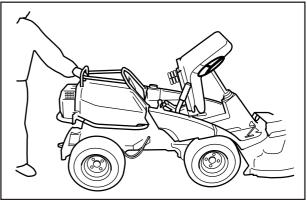
Engine Cover

- 1. Pull the seat forward to its foremost position.
- 2. Fold up the seat.
- 3. Turn the cover lock on the top of the engine cover anti-clockwise a 1/4 turn.
- 4. Open the engine cover forwards.

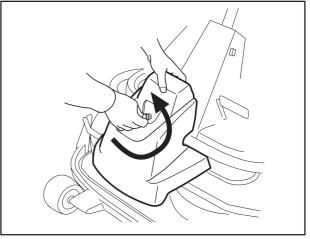
If necessary the engine cover can be lifted off by removing the hinge pins.

Front Cover

Loosen the snap-in lock and lift off front cover.



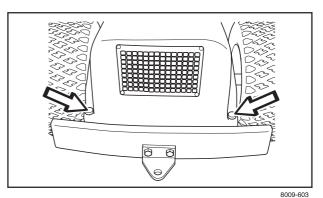
8009-509



6017-219

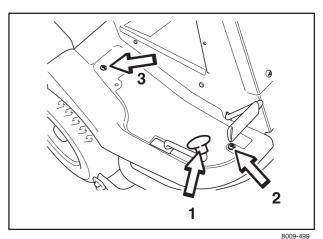
Transmission Cover

Loosen both screws (one on each side) and lift off the transmission cover.



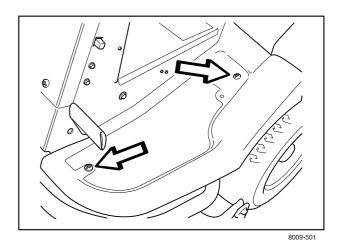
Right-hand Wing Cover

Remove the knob (1), the screws (2 and 3) and lift off the cover.



Left-hand Wing Cover

Loosen the screws (2) and lift off the cover.



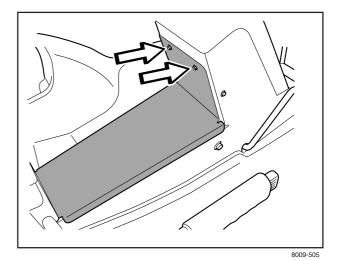
Checking and Adjusting the Steering Cables

The steering is governed by means of cables.

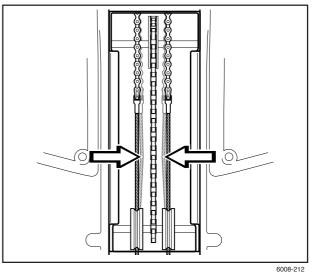
After a period of use these can become stretched, which means the steering setting may have changed.

Steering is checked and adjusted as follows:

1. Remove the frame plate by loosening the screws.



 Check the tension of the steering cables by squeezing the cables together (at the arrows). It should be possible to squeeze the cables so that the distance between them is half the size, without using too much force.



3. If necessary, the wires can be adjusted by tightening the adjuster nuts on each side of the steering collar.

Do not tension the cables too much, they should only *be tightened* against the steering collar.

Hold the wire so it does not twist.

If you only tension one side the steering wheel's centre position may change.

Check the wire tension as set out in point 2 after you have made the adjustment.

Adjusting the Parking Brake Pro 15, Pro 18

The parking brake is adjusted as follows:

- 1. Remove the transmission cover.
- 2. Unhook the spring (A) from the screw (B).
- 3. Check that the parking brake is not on.
- 4. Adjust the play between the casing and the adjustment screw to 1 mm when one pulls the casing.

Adjust with the nuts on the adjustment screw.

- 5. Tighten the nuts moderately to avoid damaging the threads.
- 6. Replace the spring (A).
- 7. Check that the parking brake works.

Adjusting the Parking Brake Pro 18 AWD

Check that the parking brake is adjusted correctly by placing the machine on a slope with the front and rear axles disengaged. Apply and lock the parking brake. When the machine does not stand still, the parking brake should be adjusted according to the following.

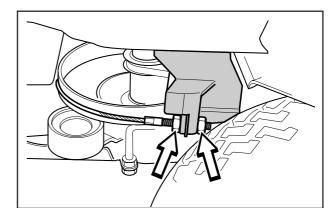
- 1. Remove the left-hand wing cover.
- 2. Check that the parking brake is not on.
- 3. Adjust the play between the casing and the adjustment screw to 1 mm (0.040") when one pulls the casing. This gives play on the pedal of approximately 40 mm (1.5"). Adjust using the nuts on the adjustment screw.
- 4. Tighten the nuts moderately to avoid damaging the threads.

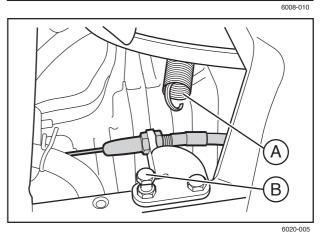
A poorly adjusted parking brake can result in reduced braking ability.

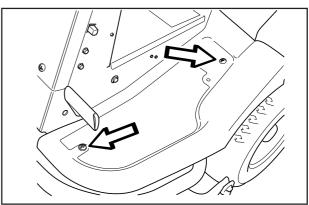
- 5. Check that the parking brake works.
- 6. Assemble the left-hand wing cover.

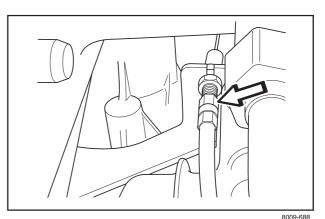
WARNING!











Checking and Adjusting the Throttle Cable

Check that the engine responds to throttle increases and that a good engine speed is attained at full throttle.

If doubts arise, contact your service representative.

If adjustments are necessary, they can be made as follows for the lower cable:

- 1. Loosen the clamping screw for the cable's outer casing and move the throttle to the full throttle position.
- 2. Check that the throttle cable is mounted in the correct hole in the lower lever, see illustration.
- Push the throttle cable's outer casing as far to the left as possible and tighten the clamping screw.

Checking and Adjusting the Choke Cable

If the engine produces black smoke or is difficult to start, this can be because the choke cable is incorrectly adjusted (upper cable).

If doubts arise, contact your service representative.

If adjustments are necessary, they can be made as follows:

- 1. Loosen the clamping screw for the cable's outer casing and move the choke lever to the full choke position.
- 2. Check that the choke cable is mounted in the upper lever, see illustration.
- 3. Pull the choke cable's outer casing as far to the right as possible and tighten the clamping screw.

Inspecting the Muffler

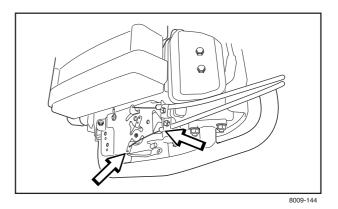
Check regularly that the muffler is complete and secured correctly.

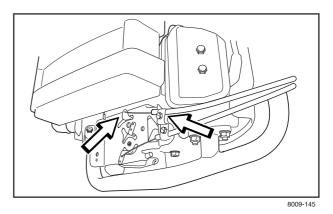
Temperature variations and vibrations can mean that the tightening torque for the screws drops. The screws should be checked when servicing to guarantee the correct torque. The tightening torque should be about 10 Nm. Never use a defective muffler.

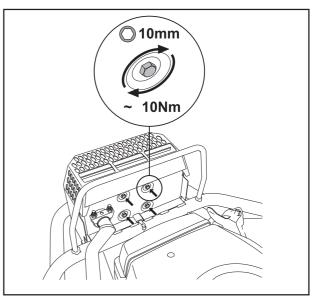


WARNING!

The muffler gets very hot in use and remains so for a short time afterwards. Contact can result in burns. Remember the risk of fire.







Replacing the Fuel Filter

Replace the fuel filter mounted on the supply line after every 100 hours (once per season) or more frequently if it is clogged.

Replace the filter as follows:

- 1. Open the engine cover.
- 2. Move the hose clamps away from the filter. Use a pair of flat pliers.
- 3. Pull the filter loose from the hose ends.
- 4. Push the new filter into the hose ends. Position the filter with the "FLOW" arrow pointing up towards the fuel pump. If necessary, a soap solution can be applied to the ends of the filter to simplify assembly.
- 5. Move the hose clamps back toward the filter.

Checking the Fuel Pump's Air Filter

Check regularly that the fuel pump's air filter is not clogged by dirt.

The filter can be cleaned using a brush, if necessary.

- 1. Remove the two screws holding the fuel pump.
- 2. Move the pump to one side without loosening the hoses and brush clean the filter.
- 3. Replace the fuel pump.

Air Supply Exhaust Pipe

Cleaning the Pulse Air Filter

- 1. Fold up the engine cover.
- 2. Loosen the four snap catches, remove the cover, and remove the filter.
- 3. Blow the filter clean with compressed air.

Replace the filter if it is damaged or cannot be blown clean.

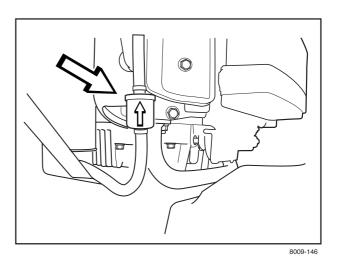
4. Place the filter back in the cover and fasten the cover with the snap catches. Replace the engine cover.

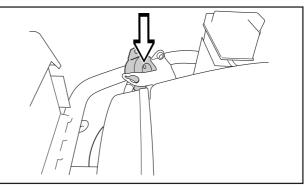
Checking the Transmission Air Intake

Check to ensure that the transmission's air intake in the transmission cover is not clogged.

Remove the transmission cover and clean any grass cuttings from the transmission's cooling fins if necessary.

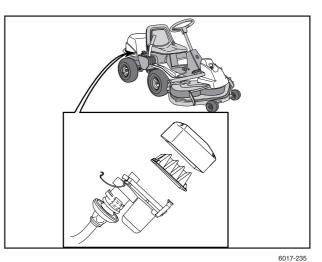
Cooling is impaired if the air intake is blocked or the transmission housing is dirty, this can result in damage to the transmission.

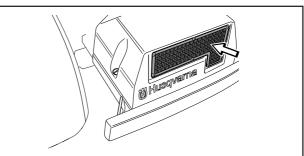






6017-106





28 - English

Replacing the Air Filter Pro 15

If the engine seems weak or runs unevenly, the air filter may be clogged. If run with a soiled air filter, carbon can build-up on the spark plugs and lead to malfunction.

Consequently, it is important to periodically replace the air filter (see "Maintenance \ Maintenance Schedule" for the correct service interval).



WARNING!

Allow the exhaust system to cool before servicing. Risk of burns.

Replacing the air filter is carried out as follows:

1. Remove the air filter unit by pressing the catches with your fingers.

IMPORTANT INFORMATION

Never run the engine when the air filter has been removed.

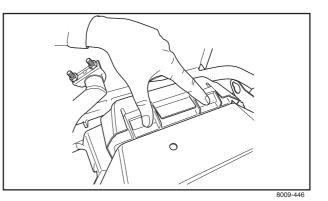
Do not use compressed air to clean the paper filter. Do not wash the paper filter.

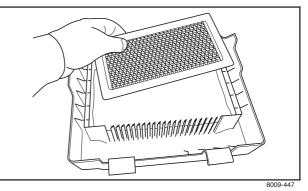
Filters should not be oiled. They should be assembled dry.

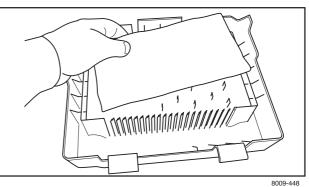
- 2. Take the prefilter and the paper filter out of the air filter unit.
- 3. Clean the prefilter by washing with water and a cleaning agent.
- 4. Dry the prefilter well.
- 5. Tap the paper filter against a solid surface to remove dust. If the paper filter is still dirty, it must be replaced with a new filter.

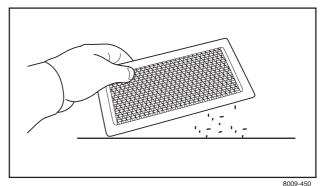
Always replace the paper filter after every 200 hours.

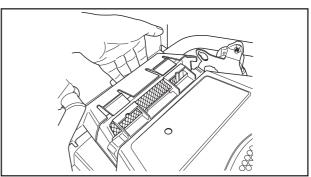
- 6. Refit the prefilter and the paper filter in the air filter unit.
- 7. Refit the air filter unit by first pressing in the lugs at the bottom of the unit and then pushing so that the catches lock.











Replacing the Air Filter Pro 18

If the engine seems weak or runs unevenly, the air filter may be clogged. If run with a soiled air filter, carbon can build-up on the spark plugs and lead to malfunction.

Consequently, it is important to periodically replace the air filter (see "Maintenance \ Maintenance Schedule" for the correct service interval).



WARNING!

Allow the exhaust system to cool before servicing. Risk of burns.

Cleaning/replacement of the air filter is carried out as follows:

- 1. Loosen the rubber strap under the seat and open the engine cover.
- 2. Steer fully in one direction (AWD)

IMPORTANT INFORMATION

Never run the engine when the air filter has been removed.

Do not use compressed air to clean the paper filter. Do not wash the paper filter.

Filters should not be oiled. They should be assembled dry.

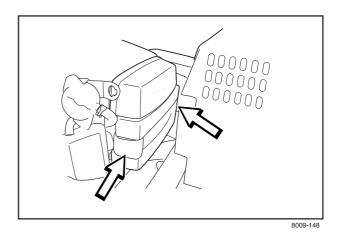
- 3. Undo both of the snap catches and lift off the cover on the air filter housing.
- 4. Remove the foam rubber pre-filter and clean using a mild detergent.

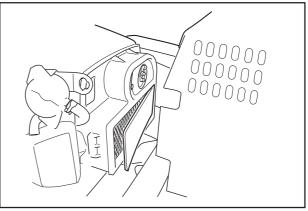
Squeeze it dry with a clean cloth.

- 5. Remove the wing nut in the air filter and remove the paper filter. Tap the paper filter against a solid surface to remove dust. If the paper filter is still dirty, it must be replaced.
- 6. Refit the air filter as follows:

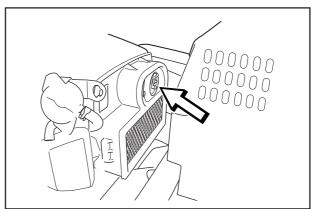
Mount the paper filter in the air filter housing and tighten the wing nut.

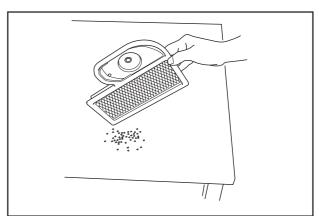
- 7. Insert the prefilter on the rectangular part of the paper filter.
- 8. Replace the cover over the air filter housing. Move the cover up from below and ensure that the prefilter does not fall out of position. Secure with both snap catches.





8009-149





Checking the Engine's Cooling Air Intake

Clean the air intake grille in the engine cover behind the driver's seat.

Open the engine cover.

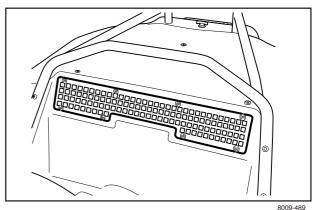


WARNING! The cooling air intake rotates when the engine is running. Watch your fingers.

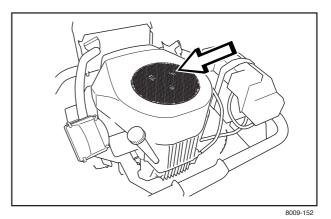
Check that the engine cooling air intake is free of leaves, grass, and dirt.

Check the air duct, located on the inside of the engine cover, ensure it is clean and does not rub against the cooling air intake.

A clogged air intake grille, air duct or cooling air intake impairs the cooling of the engine, which may result in engine damage.



Air intake grille



Cooling air intake

Cleaning the Engine and Muffler

Keep the engine and muffler free from grass cuttings and dirt. Grass cuttings steeped in petrol or oil on the engine can increase the fire risk and impair cooling.

Allow the engine to cool before cleaning. If the dirt is mixed with oil, remove it using a degreasing agent otherwise just water and a brush.

Grass cuttings around the muffler dry quickly and constitute a fire risk. Brush or wash them off when the muffler is cold.

Checking the Acid Level in the Battery

Check that the acid level in the battery lies between the markings. When refilling, only distilled water may be used to fill the cells.



WARNING!

Actions with acid contact

External: Rinse thoroughly with water.

Internal: Drink large quantities of water or milk. Contact a doctor as soon as possible.

Eyes: Rinse thoroughly with water. Contact a doctor as soon as possible.

The battery emits explosive gases. Sparks, flames, and cigarettes must not be present in the vicinity of the battery.

Ignition System

The engine is equipped with an electronic ignition system. Only the spark plugs require maintenance.

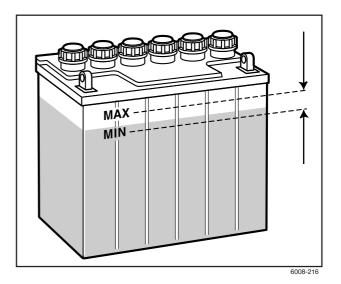
For the recommended spark plug, see Technical data.

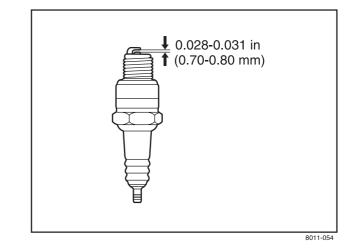
IMPORTANT INFORMATION

Fitting the wrong spark plug type can damage the engine.

Replacing the Spark Plug

- 1. Remove the ignition cable shoe and clean around the spark plug.
- 2. Remove the spark plug with a 3/4" (19 mm) spark plug socket wrench.
- 3. Check the spark plug. Replace the spark plug if the electrodes are burned or if the insulation is cracked or damaged. Clean the spark plug with a wire brush if it is to be reused.
- 4. Measure the electrode gap with a gapping tool. The gap should be 0.75 mm / 0.030". Adjust as necessary by bending the side electrode.
- 5. Reinsert the spark plug, turning by hand to avoid damaging the threads.
- 6. After the spark plug is seated, tighten it using a spark plug wrench so that the washer is compressed. A used spark plug should be turned 1/8 of a turn from the seated position. A new spark plug should be turned 1/4 a turn from the seated position.
- 7. Replace the ignition cable shoe.





IMPORTANT INFORMATION

Inadequately tightened spark plugs can cause overheating and damage the engine. Tightening the spark plug too much can damage the threads in the cylinder head.

Checking the Safety System

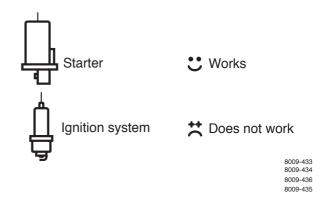
The Rider is equipped with a safety system that prevents starting or driving under the following conditions.

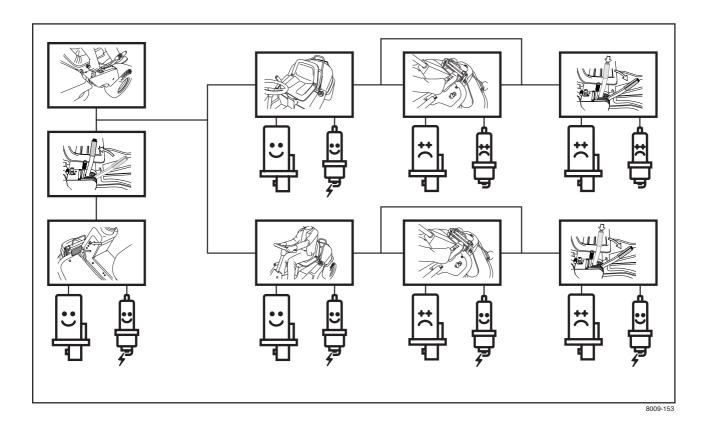
The engine should only be possible to start when the cutting unit is in its raised position and the parking brake is applied.

The driver does not need to be seated in the driver's seat.

Make daily inspections to ensure that the safety system works by attempting to start the engine when one of the conditions is not met. Change the conditions and try again.

Check that the engine stops if you temporarily move out of the driver's seat while the cutting unit is lowered or the hydrostat pedals are not in the neutral position.





Replacing the Light Bulbs

For information about the bulb type, see "Technical Data".

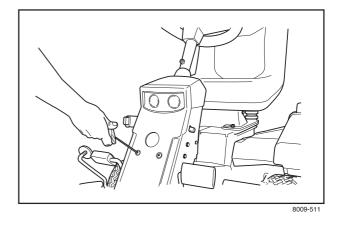
1. Unscrew the two screws holding the cover on the power steering housing.

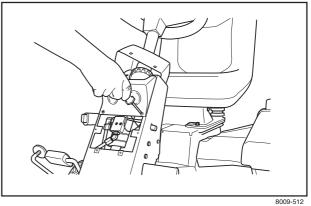
Lift up the cover and turn it around the steering shaft.

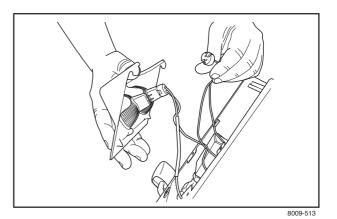
2. Unscrew the two screws holding the lamp insert.

Lift out the lamp insert.

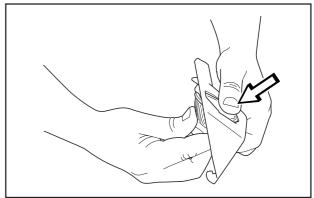
- 3. Disconnect the cables from the bulbs.
- 4. Lift out the bulbs from the insert.







- 5. Insert the new bulbs. Make sure you use your thumb to support the front.
- 6. Refit the cables, lamp insert and the cover on the power servo housing.



Fuses

The main fuse is placed in a detachable holder under the battery case's cover, in front of the battery.

Type: Flat pin, 15 A.

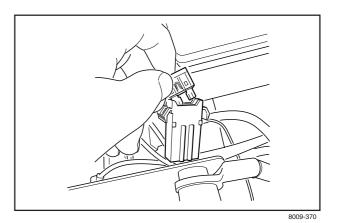
The fuse for the power outlet is placed under the ignition switch, behind the side plate on the control panel.

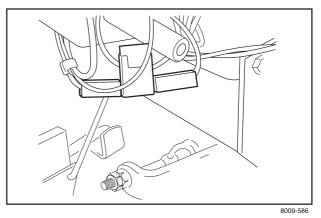
Type: Flat pin, 7.5 A.

Do not use any other type of fuse when replacing.

A blown fuse indicates that the mounting has burnt off. Pull the fuse from the holder when replacing.

The fuse is there to protect the electrical system. If it blows again shortly after replacement, it is due to a short circuit, which must be fixed before the machine can be put into operation again.



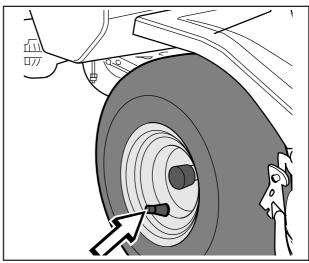


Checking the Tyre Pressures

The tyre pressure should be 60 kPa / 0.6 bar / 9 PSI on all wheels. The highest permitted pressure is 100 kPa / 1.0 kp/cm² / 14 PSI).

IMPORTANT INFORMATION

Different air pressure in the front tyres will result in the blades mowing the grass at different heights.



Replacing the Rear Drive Belt Pro 15 and Pro 18:

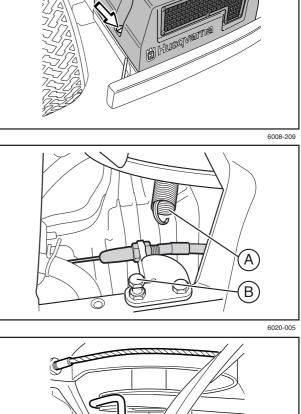
Removal

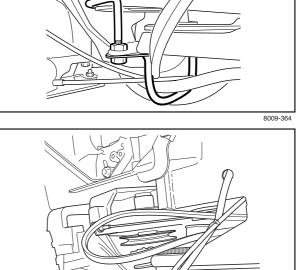
- 1. Remove the transmission cover.
- 2. Unhook the spring on the belt tensioner (A).

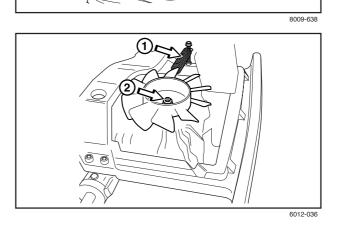
3. Remove the hose clip on the middle and the belt guide for the centre belt.

- 4. Pull off the centre belt from the engine's pulley and pull out the rear section. A used belt can be pulled downwards. When the belt is new, the centre belt must be pulled off of its front pulley whereupon it can be moved downwards from the engine pulley so that the rear part can be pulled out.
- 5. Remove the cooling fan (2).
- 6. Pull the belt off of the hydrostatic transmission's pulley.

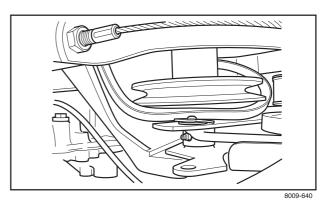








- 7. Pull the pump belt off of the engine's pulley and move it under the engine belt pulleys.
- 8. Pull out the pump belt through the opening under the pivot bearing and past the belt tensioner's disc.

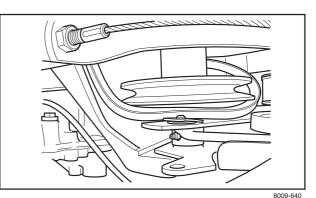


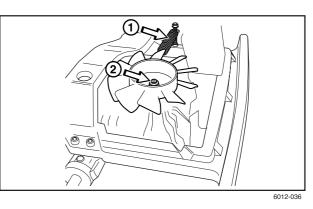
Assembly

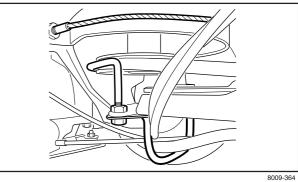
- Pull the pump belt through the opening under the pivot bearing and on the outside past the belt tensioner's disc.
- 2. Fit the pump belt on the engine's pulley, move it under the engine belt pulleys.
- 3. Fit the belt on the hydrostatic transmission's pulley.
- 4. Fit the cooling fan.
- 5. Tighten the cooling fan nut (2).
- 6. Check that the centre belt is fitted correctly on its front pulley and fit the centre belt on the engine's pulley.

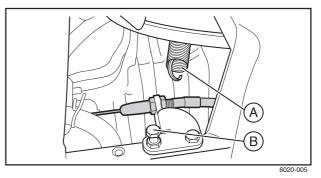
7. Fit the hose clip on the middle and the belt guide for the centre belt.

8. Hook the spring on the belt tensioner (A) on the screw (B).





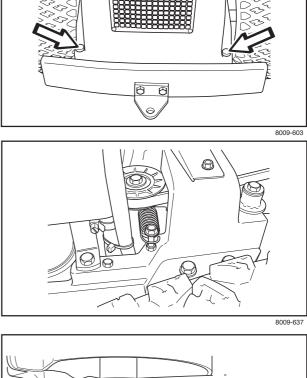




Replacing the Hydraulic Pump's Drive Belt Pro 18 AWD

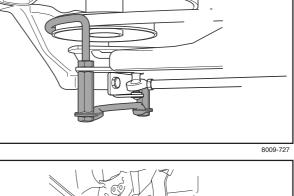
Removal

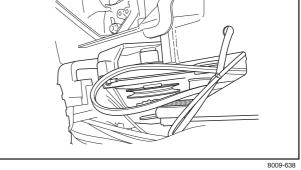
- 1. Remove the transmission cover.
- 2. Unhook the spring on the belt tensioner.

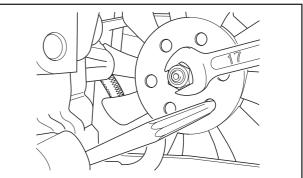


3. Remove the belt guide for the centre belt.

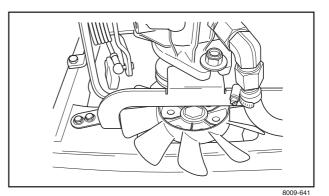
- 4. Pull off the centre belt from the engine's pulley and pull out the rear section. A used belt can be pulled downwards. When the belt is new, the centre belt must be pulled off of its front pulley whereupon it can be moved downwards from the engine pulley so that the rear part can be pulled out.
- 5. Remove the nut on the cooling fan. Counter hold using a punch in one of the holes on the underside of the fan when the nut is loosened.

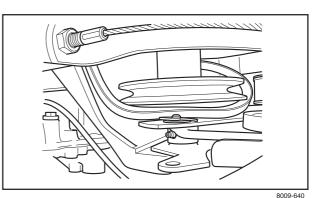






- 6. Remove the clamp on the hydraulic pipes, located under the fan. Loosen the pipe connections from the pump slightly, bend the hydraulic pipes down and pull the cooling fan out backwards.
- 7. Pull the belt off of the pump's pulley.
- 8. Pull the pump belt off of the engine's pulley and move it under the engine belt pulleys.
- 9. Pull out the pump belt through the opening under the pivot bearing and past the belt tensioner's disc.

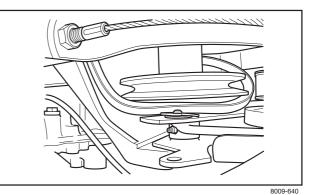


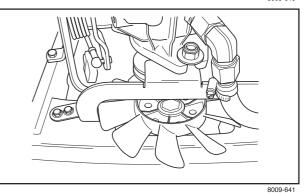


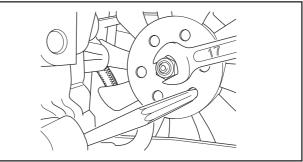
Assembly

- 10. Pull the pump belt through the opening under the pivot bearing and on the outside past the belt tensioner's disc.
- 11. Fit the pump belt on the engine's pulley, move it under the engine belt pulleys.
- 12. Fit the belt on the pump's pulley.
- 13. Fit the cooling fan.

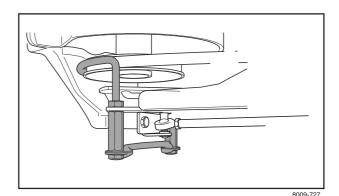
- 14. Tighten the cooling fan nut. Counter hold using a punch in one of the holes on the underside of the fan when the nut is tightened.
- 15. Refit the clamp on the hydraulic pipes, located under the fan. Tighten the pipe connections on the pump.
- 16. Check that the centre belt is fitted correctly on its front pulley and fit the centre belt on the engine's pulley.







17. Fit the belt guide for the centre belt.

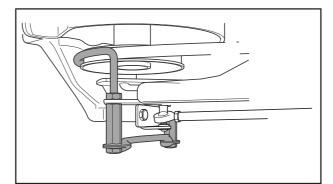


R

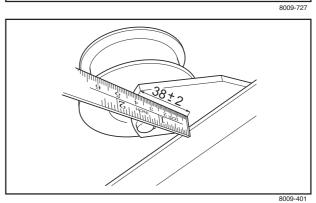
18. Hook the spring on the belt tensioner.



- 1. Remove the hose clip in the middle (Pro 15, Pro 18) and the rear belt guide for the centre belt (all machines).
- 2. Remove the centre belt and fit a new belt.
- 3. Fit and adjust the belt guide with the lower belt on the engine belt pulley. On Pro 15, Pro 18 also fit the hose clip in the middle as in the figure above.
- <image>



4. Check and adjust the belt tensioner. This is especially important when fitting a new belt, since stretching of the old belt may have been compensated for by changing the setting of the belt adjuster.



Replacing the Front Belt Pro 15, Pro 18

Dismantling

The entire belt is removed according to the following when a snow blade is to be attached to the machine.

- 1. Remove the cutting unit.
- 2. Loosen the belt guides and the support pully.
- 3. Loosen the wheel on the belt tensioner.
- 4. Ease off the belt from the middle pulley and remove the belt.

Assembly

- 1. Fit the belt on the centre pulley.
- 2. Move the belt into position and fit the belt on the belt tensioner.
- 3. Position the belt on the support pulley and tighten the belt guide.
- 4. Fit the cutting equipment.

Replacing the Front Belt Pro 18 AWD

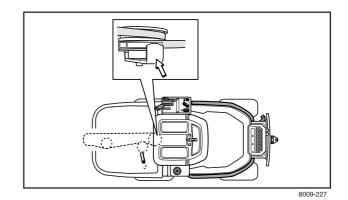
Dismantling

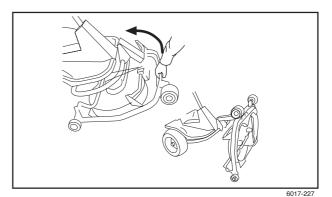
The entire belt is removed according to the following when a snow blade is to be attached to the machine.

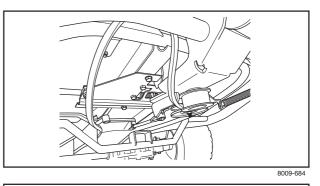
- 1. Put the cutting unit in the service position.
- 2. Pull the centre belt off of the centre pulley. The belt becomes slack when the cutting unit is lifted.
- 3. Take off the front belt from the centre pulley and remove the belt.

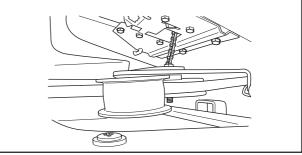
Assembly

1. Position the belt from the front. Pull the belt on the outside of the runner pulley and on the inside of the adjuster pulley.

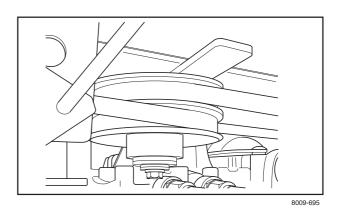






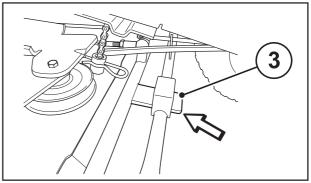


2. Fit the centre belt in position on the centre pulley.

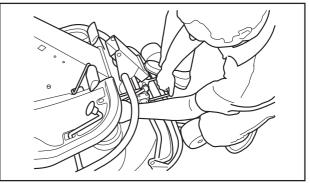


 Reset the cutting unit in the mowing position. Make sure that the tongue (3) mates with the loop on the underside of the machine.

4. The belt is fitted on the cutting unit's drive pulley once the unit has been pushed back into its rear position.







Fitting the Cutting Unit



WARNING!

Wear protective glasses when assembling the cutting unit. The spring that tensions the belt can fly off and cause personal injury.

1. Place the Rider on a flat surface and apply the parking brake. Check that the lever for setting the cutting height is in the lowest position.

Ensure the anti-scalp roller is fitted on the cutting unit (1).

2. Grasp the handle on the front of cutting unit's frame (2) and push the unit in under the Rider.

Make sure the tongue (3) on the unit mates correctly.

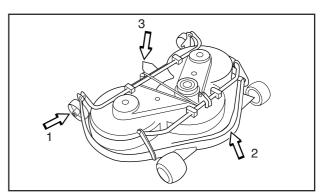
3. Fit the screw and secure with a locking pin.

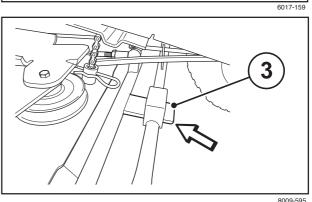


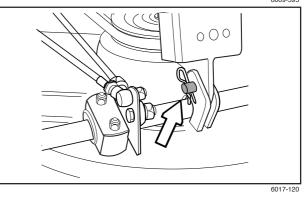
WARNING! Observe caution to avoid trapping your hand.

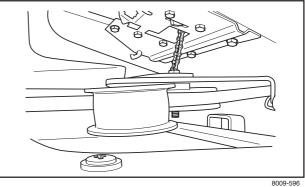
4. Place the belt over the runner pulley and behind the adjuster pulley.

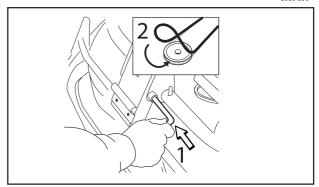
- 5. Press down the frame and secure with the split pin. Fit the drive belt around the unit's drive pulley.
- 6. Hook in the height adjustment stay.





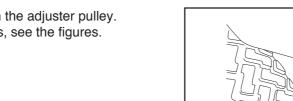


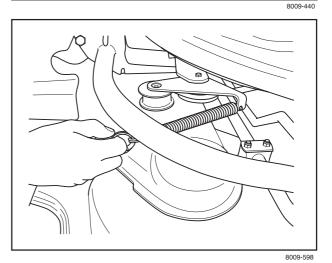




- 7. Fit the anti-scalp rollers in position
- 8. Fit the front cover.

9. Secure the springs on the adjuster pulley. There are two designs, see the figures.





8009-439

 \bigcirc

H.

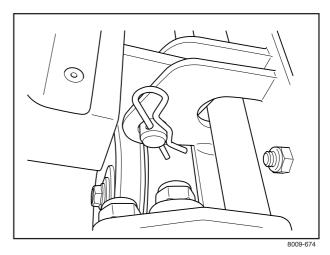
Removing the Cutting Unit



WARNING!

Wear protective glasses when dismantling the cutting unit. The springs that tension the belt can fly off and cause personal injury.

- 1. Follow "The Cutting Unit's Service Position", points 1-9 to put the cutting unit in the service position.
- 2. Remove the bolt (3) and lift off the cutting unit.



Checking and Adjusting the Cutting Unit's Ground Pressure

In order to achieve the best mowing result the cutting unit should follow the ground without touching it too heavily. The pressure is adjusted using a screw on each side of the Rider.

- 1. Check the air pressure in the tyres 60 kPa / 0.6 bar / 9 PSI.
- 2. Place the Rider on a flat surface.
- 3. Put the lifting lever in the mowing position.
- 4. Place a set of bathroom scales under the cutting unit's frame (on the front edge) so that the unit rests on the scales. If necessary a block can be placed between the frame and the scales so that the anti-scalp rollers do not support any weight.
- 5. Adjust the cutting unit's ground pressure by screwing the adjuster screws, which are located behind the front wheels on both sides, in or out.

The ground pressure should be between 12 and 15 kg (26.5-33 lb).

IMPORTANT INFORMATION

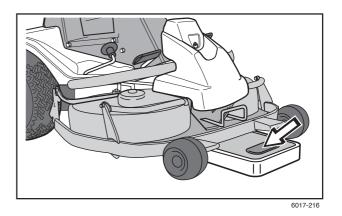
When changing the cutting unit, you must readjust the parallelism and cutting height.

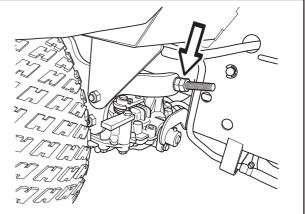
Cutting Height

- 1. Place the Rider on a flat surface.
- 2. Loosen the nut on the height adjustment strut.
- 3. Measure the distance between the ground and cutting unit's edge at the front of the cover. The cutting unit should have a slight slant, with the rear edge 2-4 mm (1/8") higher than the front edge.

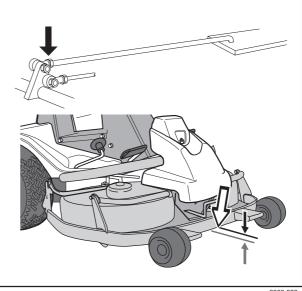
The distance between the front edge and the ground should be:

- 40 mm for Combi 94 and Combi 103
- 35 mm for Combi 112.
- 4. Tighten the nut.
- 5. Check that the parallelism has not changed. If so, the parallelism must be readjusted.
- 6. Check and if necessary adjust the cutting unit's ground pressure.
- 7. Fit the front cover.





8009-597



8009-028 8009-564

Checking the Parallelism of the Cutting Unit

Check the cutting unit's parallelism as follows:

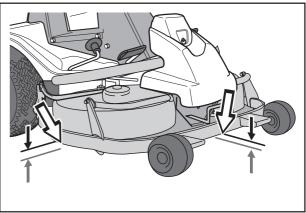
- 1. Check the air pressure in the tyres 60 kPa / 0.6 bar / 9 PSI.
- 2. Place the Rider on a flat surface.
- 3. Put the lifting lever in the mowing position.
- Measure the distance between the ground and the front and back edges of the unit's cover. The cutting unit should have a slight slant, with the rear edge 2–4 mm (1/8") higher than the front edge.

Adjusting the Parallelism of the Cutting Unit

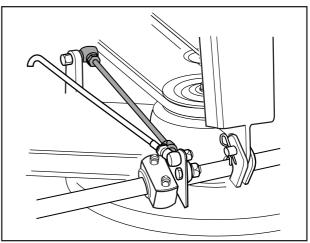
- 1. Remove the front cover and the right-hand wing cover.
- 2. Loosen the nuts on the parallel strut.
- 3 Screw out (extend) the strut to raise the rear edge of the cover.

Screw in (shorten) the strut to lower the rear edge of the cover.

- 4. Tighten the nuts after adjustment.
- 5. The parallelism of the cutting unit should be checked again after the adjustment has been made.
- 6. Fit the right-hand wing cover and the front cover.



6017-217



Changing the Belt on the Combi 94 and Combi 112

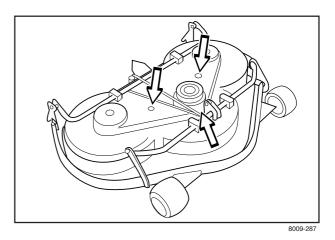


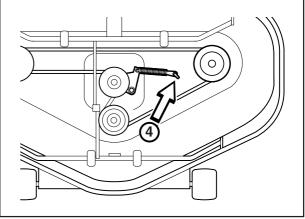
WARNING! Protect your hands with gloves when working with the blades.

On cutting units with "collision-proof" blades, the blades are driven by a V-belt. Do as follows to replace the V-belt:

- 1. Dismantle the cutting unit.
- 2. Loosen the bolt to the parallel strut and the two screws on the cover. Lift off the cutting unit cover.
- 3. Loosen the spring (4) that tensions the V-belt and pull the belt off.

Attach a new belt in the reverse order.



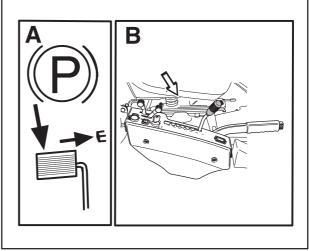


The Cutting Unit's Service Position

In order to provide good accessibility for cleaning, repair and servicing, the unit can be set in the service position. The service position means that the unit is raised and locked in the vertical position.

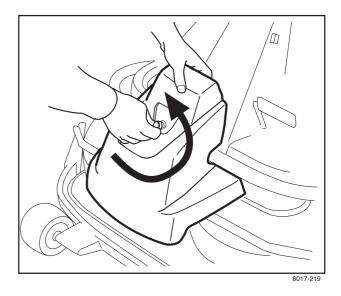
Placing in the Service Position

 Place the machine so it is flat. Activate the parking brake (A). Set the cutting deck to the lowest cutting height and lower the cutting unit (B).

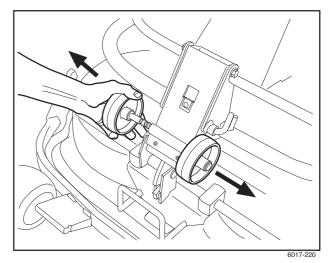


8009-587

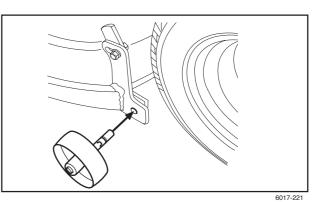
2. Remove the front cover by loosening the split pin. (Complete instructions for the service position can be found on the inside of the front cover).



3. Loosen the two anti-scalp rollers, located under the front cover.



4. Fit the two anti-scalp rollers on each side of the cutting unit's rear section.

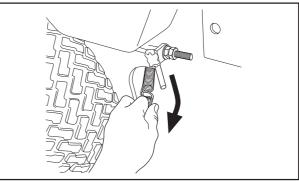


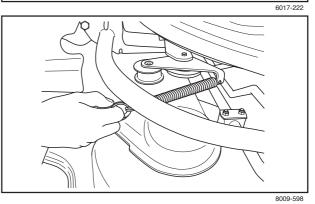


WARNING!

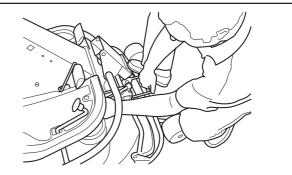
Wear protective glasses when dismantling the cutting unit. The springs that tension the belt can fly off and cause personal injury.

5. Loosen the spring on the drive belt's belt idler. There are two designs, see the figures.

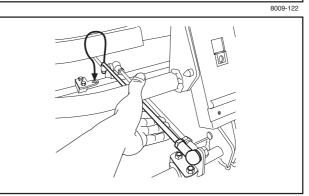




6. Put your foot on the front edge of the cutting unit next to the wheel and lift the cutting unit's front edge to make it easier to loosen the height adjustment stay.



7. Secure the stay in the holder.







WARNING!

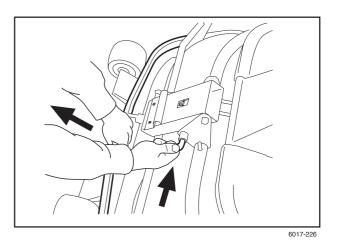
Observe caution to avoid trapping your hand.

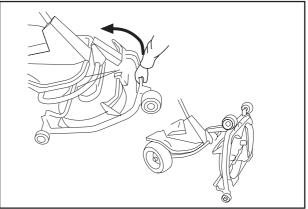
- 8. Lift off the drive belt (1). Now pull out the split pin (2).

9. Pull the frame forwards and refit the pin.

10. Grasp the cutting unit's front edge, pull out and lift up into the service position.

If the cylindrical bolt, which is now holding the cutting unit is removed, the cutting unit can be lifted off.

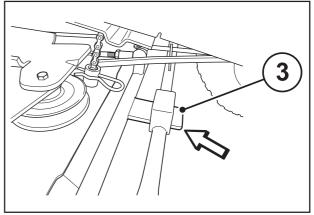




6017-227

Releasing the Service Position

To leave the service position, reverse the procedures set out in "Placing in the Service Position". Make sure that the cutting unit's tongue (3) enters the loop correctly on the underside of the machine.



Inspecting the Blades

It is important that the blades are undamaged and well-ground to give the best mowing result.

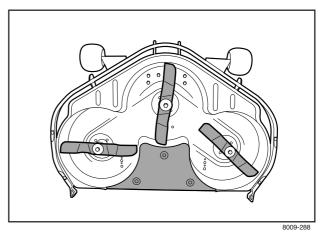
Check that the blades' mounting bolts are tightened.

IMPORTANT INFORMATION

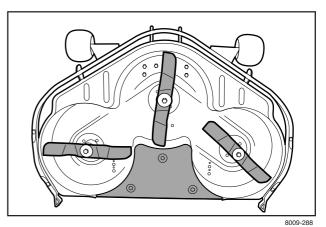
Replacement or sharpening of the blades should be carried out by an authorised service representative.

The blades should be balanced after sharpening.

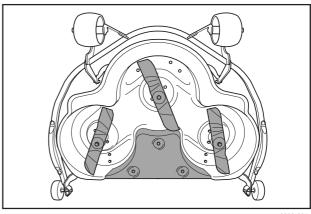
Damaged blades should be replaced when hitting obstacles that result in a breakdown. Let the servicing dealer judge whether the blade can be repaired/ground or must be discarded.



Combi 103



Combi 112



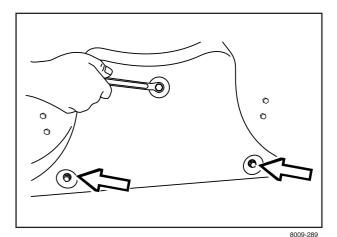
Combi 94

Removing the BioClip Plug (Combi)

To change a Combi unit from the BioClip function to a cutting unit with rear ejection, remove the BioClip plug, which is located under the unit, attached with three screws.

- 1. Put the unit in the service position, see "Placing in the Service Position".
- 2. Remove the three screws holding the BioClip plug, and remove the plug.
- 3. Tip: Fit three full-thread screws M8x15 mm in the screw holes to protect the threads.
- 4. Return the unit to the normal position.

Fit the BioClip plug in the reverse order.



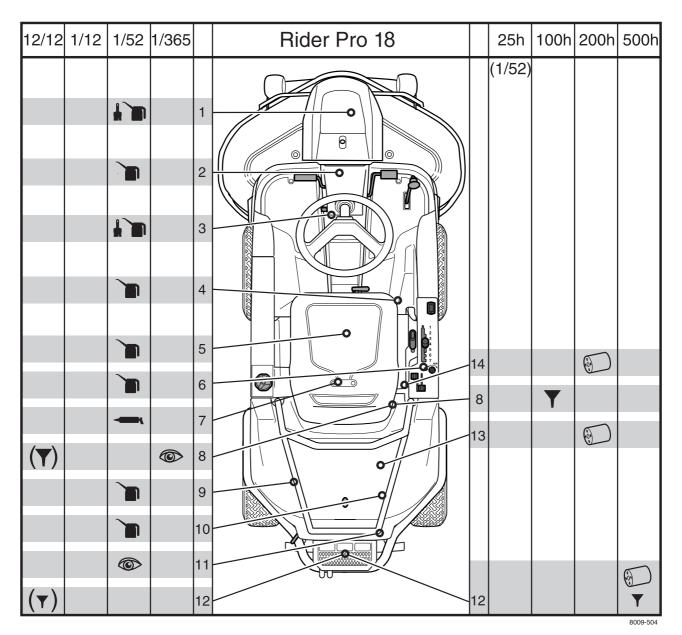
Removal of BioClip plug

Lubrication Chart Pro 15

12/12	1/12	1/52	1/365		Rider Pro 15		25h	100h	200h	500h
12/12	1/12	1/52	1/365	1 2 3 4 5			25h (1/52)		200h	500h
 (▼) (▼) 				6 7 8 9 10 11 12		8 13 12		T		₹

The position numbers for the lubrication points refer to the lubrication instructions on the following pages.

Lubrication Chart Pro 18



The position numbers for the lubrication points refer to the lubrication instructions on the following pages.

Lubrication Chart Pro 18 AWD

12/12	1/12	1/52	1/365		Rider Pro 18 AWD		25h	100h	200h	500h
				1 2 3 15			(1/52)			
				4 5 6 7		14		T		
(▼)				8 9 16		13				
(▼)				12		12				8009-681

The position numbers for the lubrication points refer to the lubrication instructions on the following pages.

General

Remove the ignition key to prevent unintentional movements during lubrication.

When lubricating with an oilcan, it ought to be filled with engine oil.

When lubricating with grease, unless otherwise stated, grease 503 98 96-01 or another chassis or ball bearing grease offering good corrosion protection shall be used.

With daily use, the Rider should be lubricated twice weekly.

Wipe away excess grease after lubrication.

It is important to avoid getting lubricant on the belts or the drive surfaces on the belt pulleys. Should this happen, attempt to clean them with spirits. If the belt continues to slip after cleaning with spirits, it must be replaced. Petrol or other petroleum products must not be used to clean belts.

Lubricating the Cables

Grease both ends of the cables and move the controls to end stop positions when lubricating. Re-attach the rubber covers on the cables after lubrication. Cables with sheaths will jam if they are not lubricated regularly. Binding in a cable may cause malfunction such as partial braking.

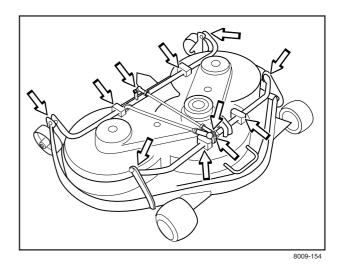
If a cable binds, remove the cable and hang it vertically. Lubricate it with thin engine oil until the oil begins to escape from the bottom. Tip: Fill a small plastic bag with oil and tape it so that it seals against the casing and allow the cable to hang vertically from the bag overnight. If you do not succeed in lubricating the cable, it must be replaced.

Lubrication Instructions According to the Schedule

1. Cutting Unit

Remove the nose cover. Lubricate using an oilcan:

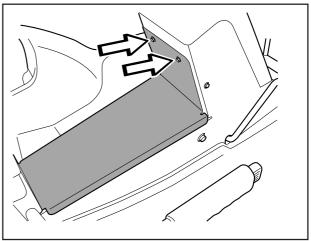
- Joints and bearings



2. Pedal Mechanism in Frame Tunnel

Lubricate the pedal mechanism in the frame tunnel.

Remove the cover of the frame tunnel by loosening the screws (two on the steering servo housing).

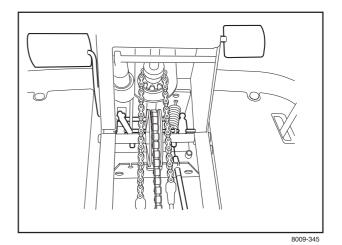


8009-505

Work the pedals and lubricate the moving parts with an oilcan.

Lubricate the cables to the brake and drive pedals with an oilcan.

Lubricate the point "Chains in the Frame Tunnel" before replacing the cover to the frame tunnel.



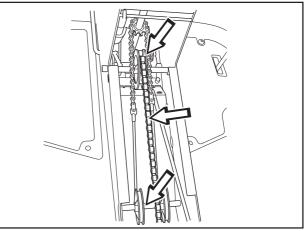
3. Chains in the Frame Tunnel

Remove the cover from the frame tunnel, see point 2.

Lubricate the chains in the frame tunnel with an oilcan or chain lubricant spray for motorcycles.

Lubricate the steering cable pulley axle with grease. Move the pulleys to one side and brush grease on the axle.

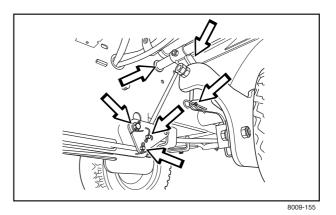
Replace the cover on the frame tunnel.



4. Three-Point Link and Joints

Lubricate the three-point link and joints for cutting height setting stay behind the right, front wheel.

Lubricate using an oilcan.

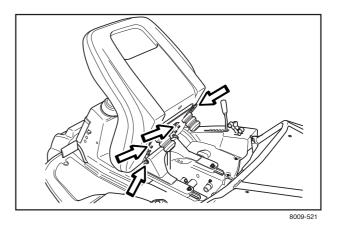


5. Driver's Seat

Tilt the seat back.

Lubricate the lengthways adjustment mechanism with the oilcan.

Lubricate the lengthways adjustment runners with the oilcan.

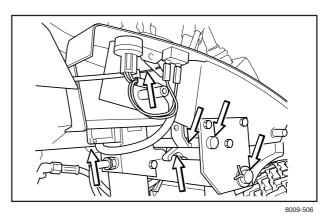


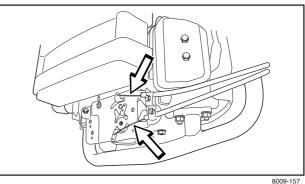
6. Throttle and Choke Cables, Lever **Bearings**

Remove the right side cover of the lever housing and open the engine cover. Lubricate the cables' free ends with the oil can, even those by the engine. Move the controls to the end points and lubricate again.

Lubricate the joints, catches, and bearings for the cutting unit's control levers with an oilcan.

Replace the lever housing's side cover.



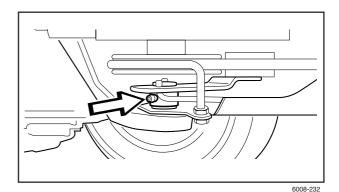


7. Belt Tensioner

Lubricate using a grease gun, 1 nipple from the right-hand side under the engine's lower belt pulley, until grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



8. Engine Oil

Check the oil level in the engine when the Rider stands horizontal with the engine switched off.

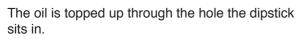
Open the engine cover.

Remove the dipstick and wipe it clean. Now insert the dipstick again, **without tightening it**.

Take the dipstick out again and read the oil level.

The oil level should be between the markings on the dipstick. If the level is approaching the "ADD" mark, top up the oil to the "FULL" mark on the dipstick.

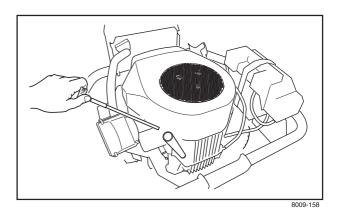
Never fill above the "FULL" mark.

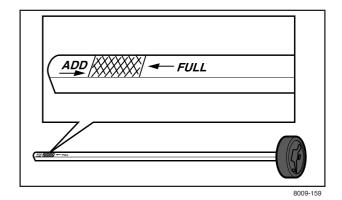


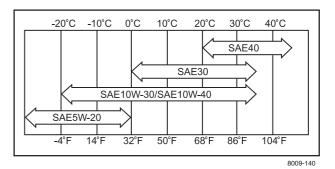
Use engine oil SAE 30, SAE 10W/30 or 10W/40, class SF-SJ (above 0 °C/+32 °F). SAE 40 can be used above +20 °C/+68 °F. Use engine oil SAE 5W/20, class SF-SJ (below 0 °C/+32 °F).

Fill the oil slowly. Tighten the dipstick correctly before starting the engine. Start and run the engine at idling speed for approx. 30 seconds. Turn off the engine. Wait 30 seconds and check oil level. If necessary fill so that the oil comes up to the "FULL" mark on the dipstick.

The engine holds 1.5 litres of oil excluding the filter and 1.7 litres including the filter.







Changing the Engine Oil

The engine oil should be changed the first time after 8 hours running time. It should then be changed after every 100 hours of running time. When operating with a heavy load or at high ambient temperatures, replace every 50 hours.

WARNING!

Engine oil can be very hot if it is drained directly after stopping the engine. Allow the engine to cool somewhat first.

- 1. Open the engine cover.
- 2. Place a container underneath the engine's left oil drain plug.
- 3. Remove the dipstick. Remove the drain plug from the engine's left side.
- 4. Let the oil run out into the container.
- 5. Then replace the oil drain plug and tighten it.
- 6. Replace the oil filter if necessary.
- 7. Fill with oil up to the FULL mark on the dipstick. Use engine oil as set out above.
- 8. Run the engine warm, then check that there is no leakage from the oil plug.
- 9. Check the oil level. Top up if necessary.

9. Hydrostatic Cable with Linkage

Remove the transmission cover, two screws.

Lubricate the joints and bearings on the left side with an oilcan.

Remove the rubber casing and lubricate the hydrostatic transmission cable with an oil can. Press the pedal a few times and lubricate again.

Replace the rubber cover.

Replace the transmission cover.

IMPORTANT INFORMATION

water in case of spills.

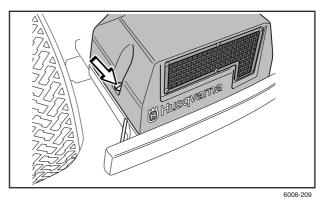
Used engine oil is a health hazard and must

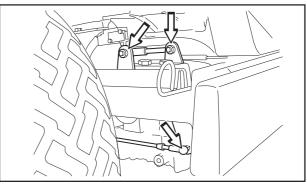
nature; it should always be disposed of at a

workshop or appropriate disposal location.

Avoid skin contact; wash with soap and

not be disposed of on the ground or in





10. Parking Brake Cable Pro 15, Pro 18

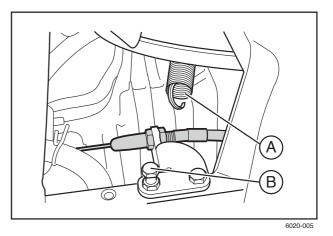
Remove the transmission cover, see "Gear Lever".

Unhook the spring (A) from the screw (B) if required (not AWD).

Remove the cable's rubber casing when lubricating.

Lubricate the cable with an oilcan, press the brake pedal a few times and lubricate again.

Replace the spring (A) and the transmission cover.



11. Transmission Oil Level Pro 15, Pro 18

 Check the oil level in the transmission by looking through the air intake mesh. The oil level shall be between the MIN and MAX markings on the oil container when at +20 °C.

If the oil needs to be filled, you must first remove the transmission cover.

2. Unscrew the oil container's cover and fill with SAE 10W/30 engine oil, class SF–CC, until the oil level reaches the MAX mark. Then screw the oil container's cap into place and attach the transmission cover.

The oil should be changed by an authorised service workshop, and is described in the Workshop Manual.

Filter replacement on Pro 18 is done at the same time as changing the oil.

12. Hydraulic System and Transmission

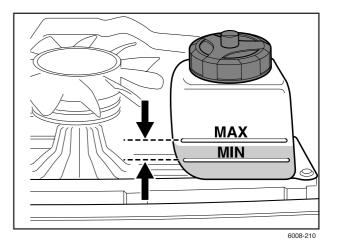
Oil level Pro 18 AWD

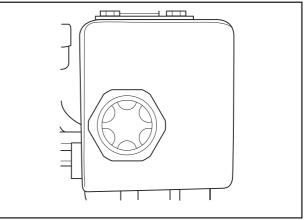
- 1. Remove the transmission cover.
- 2. Check the level, it should be visible in the sight glass at 20 °C when the machine stands flat.
- Unscrew the oil container's cover and fill with SAE 10W/40 engine oil, class SF-CC, until the oil level is visible in the top of the sight glass. Then screw the oil container's cap into place and attach the transmission cover.

The oil should be changed by an authorised service workshop, and is described in the Workshop Manual.

The filter is replaced at the same time as changing the oil.

Work on the system entails particular demands on cleanliness and the system must be vented before the machine is used.





13. Oil Filter, Change



WARNING!

Engine oil can be very hot if it is drained directly after stopping the engine. Allow the engine to cool somewhat first.

- 1. Open the engine cover.
- 2. Remove the oil filter. If necessary, use a filter remover.
- 3. Wipe new, clean engine oil onto the seal for the new filter.
- 4. Fit the filter by hand with + 3/4 turn.
- 5. Run the engine warm, then check that there are no leaks around the oil filter seal.
- 6. Check the oil level in the engine, top up if necessary. The oil filter holds 0.2 litres of oil.

IMPORTANT INFORMATION

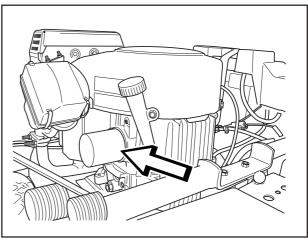
Used engine or transmission oil is healthimpairing and must not be disposed of in the ground or in nature.

Replaced filters must be handed in to the workshop or other allotted place for disposal.

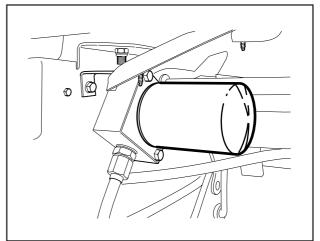
Avoid skin contact; wash with soap and water in case of spills.

14. Hydraulic Fluid Filter, Replacing Pro 18, Pro 18 AWD

- 1. Remove the oil filter. If necessary, use a filter remover.
- 2. Wipe new, clean engine oil onto the seal for the new filter.
- 3. Fit the filter by hand so it just touches + 3/4 turn.
- Remove the transmission cover and fill the transmission's oil tank, about 0.3 I oil.
 See "11-12. Transmission Oil Level". Be observant when running the engine as described below and fill so that the tank is not emptied.
- 5. Run the engine warm, manipulate the servo steering, and then check that there are no leaks around the oil filter seal.
- 6. Check the oil level in the transmission, top up if necessary. The oil filter holds 0.3 litres of oil.
- 7. Replace the transmission cover.



8009-161



15. Parking Brake Cable Pro 18 AWD

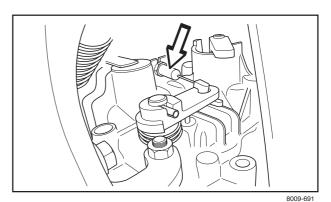
Remove the cover over the frame tunnel.

Lubricate both ends of the cable.

Remove the cable's rubber casing when lubricating.

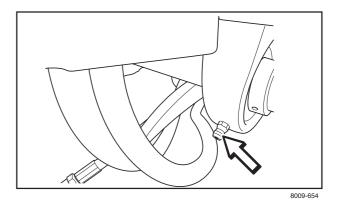
Lubricate the cable with an oilcan, press the brake pedal a few times and lubricate again.

Replace the cover on the frame tunnel.



16. Right Rear Axle Bearing

Lubricate with a grease gun until grease appears on Pro AWD.



TROUBLE SHOOTING GUIDE

Problem	Cause
The engine will not start	 No fuel in the fuel tank Faulty spark plugs (choke with a warm engine) Faulty or interchanged spark plug connections Dirt in the carburettor or fuel line, aged fuel
Starter does not turn the engine	 Discharged battery Poor contact on the battery terminal cable connectors Lifting lever for the cutting unit in the wrong position Main fuse blown. The fuse is placed in front of the battery, under the battery cover Faulty ignition switch Hydrostat pedals not in the neutral position Faulty starter motor
The engine runs erratically	 Faulty spark plugs Incorrect carburettor setting Clogged air filter Blocked fuel tank ventilation Incorrect ignition setting Dirt in the carburettor or fuel line, aged fuel Choking or incorrectly adjusted choke cable
The engine lacks power	 Clogged air filter Faulty spark plugs Dirt in the carburettor or fuel line, aged fuel Incorrect carburettor setting Choking or incorrectly adjusted choke cable
Engine overheating	 Engine overloaded Partial braking (forgotten parking brake?) Air intake or cooling fins clogged Damaged fan Too little or no oil in the engine Faulty pre-ignition Faulty spark plugs
Battery does not charge	 One or more battery cells faulty Poor contact on the battery terminal cable connectors
The Rider vibrates	 The blades are loose The engine is loose Imbalance on one or more blades, due to damage or inferior balancing after grinding
Uneven mowing results	 Blades dull Cutting unit set incorrectly Tall or wet grass Grass build up under the cover Different air pressure in the right and left-hand tyres Driving speed too high Engine speed too low Drive belt slips

Winter Storage

At the end of the mowing season, the Rider should be readied for storage, likewise if it will not be in use for more than 30 days. Fuel allowed to stand for long periods of time (30 days or more) can leave sticky residues that can clog the carburettor and disrupt engine function.

Fuel stabilizers are an acceptable option as regards sticky residues during storage. If alkylate petrol is used, stabilisers are unnecessary because this fuel is stable. However, you should avoid switching between standard and alkylate petrol as sensitive rubber components can harden. Add stabiliser to the fuel in the tank or in the storage container. Always use the mixing ratios specified by the manufacturer of the stabiliser. Run the engine for at least 10 minutes after adding the stabiliser so that it reaches the carburettor. Do not empty the fuel tank and the carburettor if you have added stabiliser.

WARNING!

Never store an engine with fuel in the tank indoors or in poorly ventilated spaces where fuel vapour can come in contact with open flames, sparks or a pilot light such as in a boiler, hot water tank, clothes drier, etc. Handle the fuel with caution. It is very flammable and careless use can cause serious damage to person and property. Drain the fuel into an approved container outdoors and far away from open flames.

Never use petrol for cleaning. Use a degreasing agent and warm water instead.

To ready the Rider for storage, follow these steps:

- 1. Clean the Rider carefully, especially under the cutting unit. Touch up damaged paint to prevent rust.
- 2. Inspect the Rider for worn or damaged parts and tighten any nuts or bolts that may have become loose.
- 3. Change the engine oil; dispose of properly.
- 4. Empty the fuel tank. Start the engine and let it run so that even the petrol in the carburettor is emptied.
- Remove the spark plugs and pour about a tablespoon of engine oil into each cylinder. Turn over the engine so that the oil is evenly distributed and then refit the spark plugs.
- 6. Lubricate all grease nipples, joints, and shafts.
- 7. Remove the battery. Clean, charge, and store in a cool place.
- 8. Store the Rider in a clean, dry place and cover it for extra protection.

Cover

There is a cover to protect your machine during storage or transport. Contact your dealer for a demonstration.

Service

Low season is the most suitable time to perform a service or overhaul of the machine in order to ensure high functional safety during the high season.

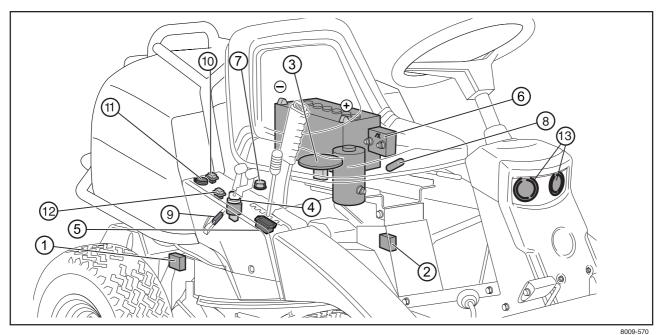
When ordering spare parts, please specify the Rider's year of purchase, model, type, and serial number.

Always use genuine Husqvarna spare parts.

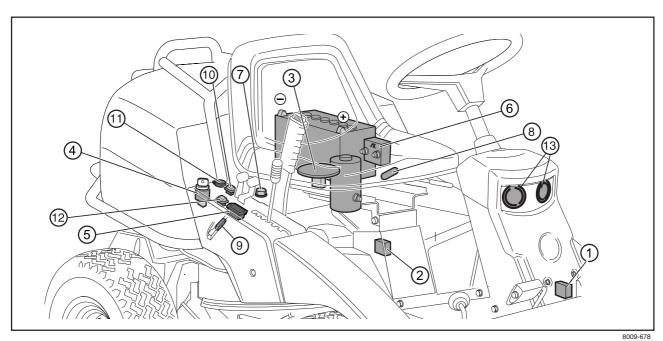
An annual check-up or trimming at an authorised service representative is a good way to ensure that your Rider performs at its best the following season.



WIRING DIAGRAM



Rider Pro 15 -18



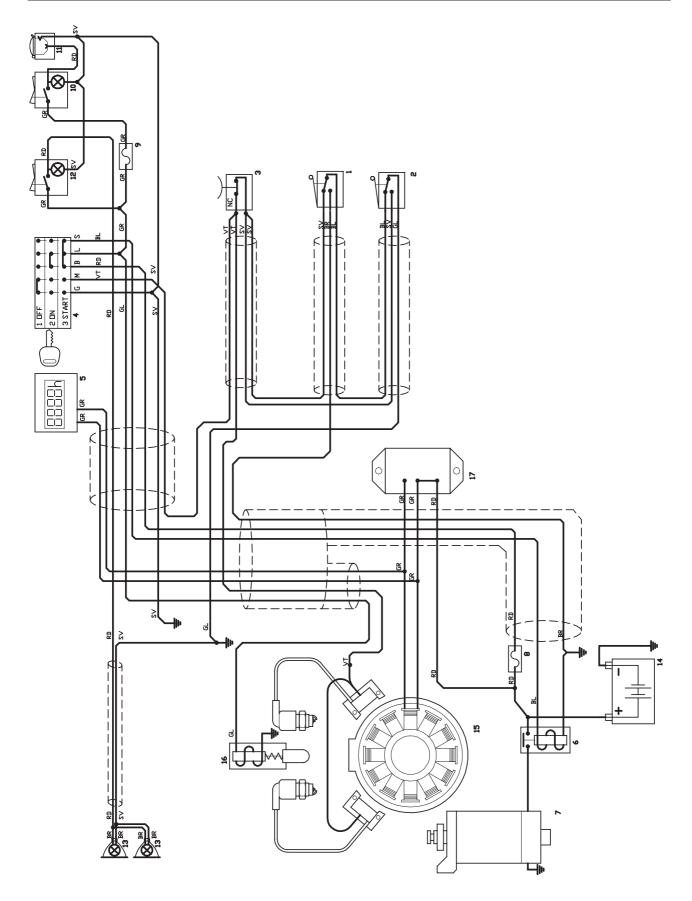
Rider Pro 18 AWD

- 1. Microswitch, hydrostatic transmission
- 2. Microswitch, cutting unit
- 3. Microswitch, seat
- 4. Ignition key
- 5. Chronometer
- 6. Start relay
- 7. Engine
- 8. Main fuse 15 A
- 9. Fuse 7.5 A
- 10. Switch for the power outlet
- 11. Power outlet
- 12. Switch for the lights
- 13. Lights

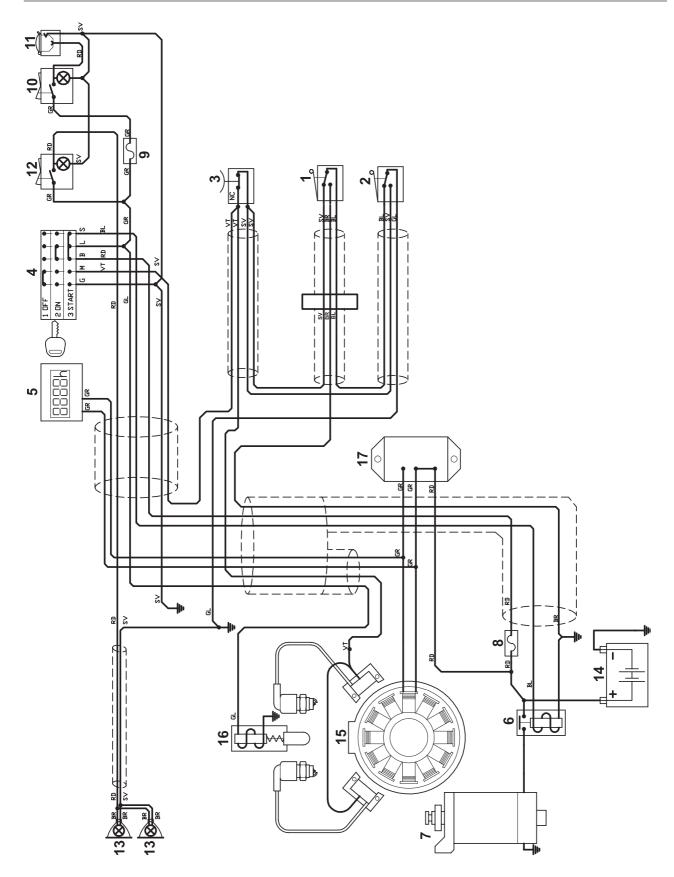
Colour Abbreviations:

- RD = Red
- **BL** = Blue
- VT = White
- SV = Black
- GL = Yellow
- **BR** = Brown
- **GR** = Green

WIRING DIAGRAM



WIRING DIAGRAM



Rider Pro 18 AWD

TECHNICAL DATA

Dimensions	Rider Pro 15	Rider Pro 18	Rider Pro 18 AWD							
Length without the cutting unit Width without the cutting unit Height Service weight without		2,030 mm / 6.65 ft 900 mm / 2.95 ft 1,130 mm / 3.70 ft	2,030 mm / 6.65 ft 900 mm / 2.95 ft 1,130 mm / 3.70 ft							
the cutting unit Distance between axles	245 kg / 540 lb 873 mm / 2.86 ft	261 kg / 576 lb 873 mm / 2.86 ft	284 kg / 626 lb 873 mm / 2.86 ft							
Tyre dimensions Air pressure rear - front Max. permitted slope	165 / 60-8 60 kPa (0.6 kp/cm²) 15°	165 / 60-8 60 kPa (0.6 kp/cm²) 15°	165 / 60-8 60 kPa (0.6 kp/cm²) 15°							
Engine Manufacturer Model Power Displacement Fuel	Kawasaki FH430V-BS50 11 kW/15 hp 431 cm ³ / 26.3 cu.in. at least 87 octane unleaded	Kawasaki FH531V-DS50 13.2 kW/18 hp 494 cm ³ / 30.1 cu.in. at least 87 octane unleaded	Kawasaki FH531V-DS50 13.2 kW/18 hp 494 cm ³ /30.1 cu.in. at least 87 octane unleaded							
Tank volume Oil Oil volume Oil volume including filter	(Max. methanol 5 %, max ethanol 10 %, max MTBE 15 %) 14 litres SAE 30, SAE 10W/30, SAE 10W/40 class SF - SJ 1.5 litres/1.6 US qt 1.7 litres/1.8 US qt	(Max. methanol 5 %, max ethanol 10 %, max MTBE 15 % 14 litres SAE 30, SAE 10W/30, SAE 10W/40 class SF - SJ 1.5 litres/1.6 US qt 1.7 litres/1.8 US qt	(Max. methanol 5 %, max %) ethanol 10 %, max MTBE 15 %) 14 litres SAE 30, SAE 10W/30, SAE 10W/40 class SF - SJ 1.5 litres/1.6 US qt 1.7 litres/1.8 US qt							
Starting	Electric start	Electric start	Electric start							
Noise emissions and mowing width Combi 94										
Measured sound power Guaranteed noise level Cutting width	99 dB(A) 99 dB(A) 940 mm	99 dB(A) 99 dB(A) 940 mm	99 dB(A) 99 dB(A) 940 mm							
Noise emissions and mowil	ng width									
Combi 103 Measured sound power	100 dB(A)	100 dB(A)	100 dB(A)							
Guaranteed noise level Cutting width	100 dB(A) 1,030 mm	100 dB(A) 1,030 mm	100 dB(A) 1,030 mm							
Noise emissions and mowi	ng width									
Combi 112	-									
Measured sound power Guaranteed noise level Cutting width	99 dB(A) 100 dB(A) 1,120 mm	99 dB(A) 100 dB(A) 1,120 mm	99 dB(A) 100 dB(A) 1,120 mm							
Electrical system										
Type Battery	12 V, negative grounded 12 V, 24 Ah	12 V, negative grounded 12 V, 24 Ah	12 V, negative grounded 12 V, 24 Ah							
Main fuse	Flat pin, 15 A	Flat pin, 15 A	Flat pin, 15 A							
Power outlet fuse	Flat pin, 7.5 A	Flat pin, 7.5 A	Flat pin, 7.5 A							
Spark plug Electrode gap	Champion RCJ8Y 0.75 mm/0.030"	Champion RCJ8Y 0.75 mm/0.030"	Champion RCJ8Y 0.75 mm/0.030"							
Bulbs, halogen	12V, 20W., 44860 WFL 38°	12V, 20W., 44860 WFL 38°	12V, 20W., 44860 WFL 38°							
Transmission										
Manufacturer	Tuff Torq K 62F	Tuff Torq K 66M	Front Kanzaki VFMU KTM 10 Rear Kanzaki RMU KTM10 Kanzaki KPL 10 ARH SAE 10W/40, class SF-CC							
Hydraulic pump Oil	- SAE 10W/30, class SF-CC	Tuff Torq K 66M SAE 10W/30, class SF-CC								
Cutting Unit Number of cutting heights	7 positions	7 positions	7 positions							

TECHNICAL DATA

Cutting unit

Mowing width Cutting heights Cutting height setting Blade diameter Weight

Combi 94

940 mm / 3.08 ft 30 - 90 mm / 1 3/16"–3 1/2" 40 mm / 1 9/16" 360 mm / 14" 52 kg / 115 lb

Combi 103

1,030 mm / 3.38 ft 40 - 80 mm / 0.13–0.26 ft 35 mm / 0.11 ft 390 mm / 1.28 ft 46 kg / 101 lb

Combi 112

1,120 mm / 3.67 ft 40 - 100 mm / 1 9/16"–3 7/8" 35 mm / 0.11 ft 420 mm / 1.37 ft 52 kg / 115 lb incl. nose link 2 kg / 4.41 lb

When this product is spent and is no longer used it should be returned to the dealer or other authority for recycling.

In order to introduce improvements the specification and design are subject to alteration without prior notice.

Note that no legal demands whatsoever can be made with the support of the information in this operator's manual.

Only use original spare parts with repairs. The use of other parts invalidates the warranty.

EU DECLARATION OF CONFORMITY

EU Declaration of Conformity (Only applies to Europe)
Husqvarna AB , SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declares under sole responsibility that Rider Husqvarna Rider Pro 15, Pro 18 and Pro 18 AWD dating from 2005 serial numbers and onwards (the year is clearly stated on the rating plate, followed by the serial number), complies with the requirements of the COUNCIL'S DIRECTIVE:
 of June 22, 1998 "relating to machinery" 98/37/EC, annex IIA. of May 3, 1989 "relating to electromagnetic compatibility" 89/336/EEC, and applicable supplements. of May 8, 2000 "relating to the emission of noise to surroundings" 2000/14/EC. Information regarding noise emissions and the mowing width, see the Technical Data.
The following harmonised standards have been applied: EN292-2, EN836.
Registered body 0404, SMP Svensk Maskinprovning AB , Fyristorgsgatan 3, SE-754 50 Uppsala, Sweden has issued the report with number: Pro 15: 01/901/005, 01/901/006 and 01/901/033 Pro 18: 01/901/023, 01/901/024 and 01/901/034 Pro 18 AWD: 01/901/035, 01/901/036 and 01/901/037
regarding the assessment of conformity according to annex VI to the COUNCIL'S DIRECTIVE of May 8, 2000 "relating to the emission of noise to surroundings" 2000/14/EC .
Huskvarna January 3, 2005

Action	
Delivery Service	
1. Fill the battery with battery acid and charge for four hours.	
2. Fit the steering wheel, seat and, where applicable, other components.	
3. Attach the cutting unit.	
4. Adjust the cutting unit:	
Adjust the lifting springs (the "weight" of the cutting unit should be 12-15 kg, if a brush is to be used, set to maximum spring power).	
Adjust the cutting unit so that its rear edge is about 2-4 mm higher than its front edge.	
Adjust the cutting unit's cutting height setting so that the cutting height limit is 5 mm above the unit frame at the lowest cutting height.	
5. Check that the right amount of oil is in the engine and transmission.	
6. Check and adjust the air pressure in the tyres (60 kPa, 0.6 bar).	
7. Connect the battery.	
8. Fill the fuel tank and start the engine.	
9. Check that the machine does not move in neutral.	
10. Check:	
Driving forwards.	
Reversing.	
Engaging the blades.	
Safety switch in the seat.	
Safety switch for the lifting lever.	
The safety switch for the hydrostat pedals.	
11. Check the engine speed: $2,900 \pm 75$ rpm.	
12. Bleed the hydraulic system, top up with oil if necessary.	
13. Check the mounting bolts on the muffler.	
14. Inform the customer about:	Delivery convice has been conviced
The need and benefit of following the service schedule.	Delivery service has been carried out.
The need and advantages of leaving the machine for service every 300 hours.	No remaining notes.
The effects of service and maintaining a service journal on the machine's resale value.	Certified:
Application areas for BioClip.	
15. Fill in the sales certificate, etc.	
After the First 8 Hours	Date, mileage reading, stamp, signature
1. Change engine oil.	

A	ction	Date, mileage reading, stamp, signature
25	-Hour Service	
1.	Clean the air filter's pre-cleaner (foam plastic filter). (Shorter intervals for dusty operating conditions.)	
2.	Clean the engine's cooling air intake and the transmission's air intake.	
3.	Clean the fuel pump's air filter. (in dusty operating conditions).	
4.	Check the mounting bolts on the muffler.	

A	ction	Date, mileage reading, stamp, signature
50	-Hour Service	
1.	Clean/Replace the air filter's pre-cleaner (foam plastic filter). (Shorter intervals for dusty operating conditions.)	
2.	Clean the engine's cooling air intake and the transmission's air intake.	
3.	Clean the air cleaner's paper filter.	
4.	Clean the fuel pump's air filter.	
5.	Check the mounting bolts on the muffler.	
6.	Check/Adjust the cutting height.	
7.	Check/Adjust the parking brake.	
8.	Inspect the flame proofing/spark arrestor (extra equipment).	

First after 50 hours

Change the oil in the hydraulics and drive system on AWD.

 Clean/Replace Clean the air c (Shorter interval) Clean the enginatase Clean the coolinintake. Clean the coolinintake. Check the moutous Check/Adjust t Check/Adjust t Inspect the flar 	Service o oil. Replace the oil filter every 200 hours. the air filter's pre-cleaner (foam plastic filter). eaner's paper filter. Replace every 200 hours. als for dusty operating conditions.) ne's cooling air intake and the transmission's air ing fins on the engine and transmissions. Inting bolts on the muffler. ne cutting height. he parking brake.	
 Clean/Replace Clean the air c (Shorter interval) Clean the enginatase Clean the coolininate Clean the coolininate Check the mouthing Check/Adjust the Check/Adjust the Inspect the flar 	the air filter's pre-cleaner (foam plastic filter). eaner's paper filter. Replace every 200 hours. als for dusty operating conditions.) ne's cooling air intake and the transmission's air ng fins on the engine and transmissions. nting bolts on the muffler. ne cutting height.	
 Clean the air c (Shorter interval) Clean the enginatake. Clean the coolining Clean the coolining Check the mouthout the coolining Check/Adjust the statement of the coolining Check/Adjust the statement of the statement of	eaner's paper filter. Replace every 200 hours. als for dusty operating conditions.) ne's cooling air intake and the transmission's air ng fins on the engine and transmissions. nting bolts on the muffler. ne cutting height.	
 (Shorter interval Clean the enginatain intake. Clean the coolining Check the moutories Check/Adjust the state of the state	als for dusty operating conditions.) ne's cooling air intake and the transmission's air ng fins on the engine and transmissions. nting bolts on the muffler. ne cutting height.	
 intake. 5. Clean the cooli 6. Check the mou 7. Check/Adjust t 8. Check/Adjust t 9. Inspect the flar 	ng fins on the engine and transmissions. nting bolts on the muffler. ne cutting height.	
 Check the mou Check/Adjust t Check/Adjust t Inspect the flar 	nting bolts on the muffler. ne cutting height.	
 Check/Adjust t Check/Adjust t Inspect the flar 	ne cutting height.	
 Check/Adjust t Inspect the flar 		
9. Inspect the flar	ne parking brake.	
·		
10. Clean/Replace	ne proofing/spark arrestor (extra equipment).	
	the spark plugs.	
11. Change the inl	ne fuel filter.	
12. Replace the hyd	Iraulic oil filter every 200 hours on Pro 18 and AWD.	
13. Clean the fuel	oump's air filter.	
14. Clean the pulse	e air filter.	
15. Check nuts and	screws for tightness.	
16. Replace the su AWD.	ction filter in the hydraulic tank every 200 hours or	
	the oil in the gearbox and hydraulic system needs y 200/500 hours). On Pro 18 also filter replacement	

	tion	Date, mileage reading, stamp, signature
30	0-Hour Service	
1.	Inspect the machine. Additional work?	
2.	Change engine oil. Replace the oil filter every 200 hours.	
3.	Replace the air filter (foam plastic filter).	
4.	Replace the air filter (paper filter).	
5.	Clean the engine's cooling air intake and the transmission's air intake.	
6.	Clean the cooling fins on the engine and transmissions.	
7.	Check the mounting bolts on the muffler.	
8.	Check/Adjust the cutting height.	
9.	Check/Adjust the parking brake.	
10.	Inspect the flame proofing/spark arrestor (extra equipment).	
11.	Clean/Replace the spark plugs.	
12.	Change the inline fuel filter.	
13.	Replace the hydraulic oil filter (every 200 hours) on Pro 18 and AWD.	
14.	Clean the fuel pump's air filter.	
15.	Clean the pulse air filter.	
16.	Check the play in the engine valves.	
17.	Check nuts and screws for tightness.	
18.	Replace the suction filter in the hydraulic tank every 200 hours on AWD.	
	Check whether the oil in the gearbox and hydraulic system needs	

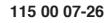
	ction	Date, mileage reading, stamp, signature
At	Least Once Each Season	
1.	Change the engine oil (100 hours).	
2.	Clean/Replace the air filter's pre-cleaner (foam plastic filter) (25 hours). (Shorter intervals for dusty operating conditions.)	
3.	Clean/Replace the air filter's paper filter (100 hours). (Shorter intervals for dusty operating conditions.)	
4.	Clean the fuel pump's air filter (50 hours).	
5.	Check the mounting bolts on the muffler.	
6.	Adjust the cutting height (50 hours).	
7.	Adjust the parking brake (50 hours).	
8.	Inspect the flame proofing/spark arrestor, extra equipment (50 hours).	
9.	Replace the engine oil filter (200 hours).	
10.	Clean/Replace the spark plugs (100 hours).	
11.	Change the inline fuel filter (100 hours).	
12.	Clean/Replace the pulse air filter (100 hours).	
13.	Clean the cooling fins (100 hours) on the engine and transmissions. (Shorter intervals for dusty operating conditions.)	
14	Check the play in the engine valves (300 hours).	
	Replace the hydraulic oil filter (every 200 hours) on Pro 18 and AWD.	
16.	Replace the suction filter in the hydraulic tank every 200 hours on AWD.	
17.	Change the oil in the hydraulic system/gearbox (200/500 hours). On Pro 18 also filter replacement.	
18.	Perform the 300-hour service at an authorised service representative.	

Action	Date, mileage reading, stamp, signature

Action	Date, mileage reading, stamp, signature

Action	Date, mileage reading, stamp, signature







2005W05