

ETESIA

GB

**Original user
manual**

Please read carefully before using your machine



**BPHP2 - BPHPX2 - HVHP
HVHPX - BVHP - BVHPX**

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THANK YOU!

You are now the proud owner of an Etesia ride-on mower! This extremely reliable and tough machine has been specially designed to give many years of service.

- In order to prolong the life of your mower and keep it in excellent working order, read this manual carefully and always follow the safety recommendations and maintenance instructions.
- As part of our commitment to excellence, we are constantly seeking new ways of improving our products. For this reason, your model may differ slightly from the description in this manual.

- Up-to-date technical information can be obtained from your dealer.
- He will be happy to resolve any queries you may have.
- In accordance with article L.111-3 of the consumer code, ETESIA undertakes to supply your dealership with spare parts, original or compatible, indispensable for the use of your product over a period of 10 years, as from the date of the invoice issued by our company.

MOWER IDENTIFICATION

- The identification number of your mower is located on the central bonnet (picture A).
- Always quote this number when seeking advice from your dealer.

1• YOUR SAFETY AND THAT OF OTHERS

- Always follow these instructions when using your ride-on mower.
- No responsibility will be accepted by the manufacturer in the event of failure to comply with this manual or with current regulations.
- Prior to use, check that safety labels are present on the mower as indicated in the manual. Read these labels carefully. If any safety labels are missing, inform your dealer immediately, as the mower is required by law to carry them.
- Never remove warning labels or safety instructions.
- Before using your mower, make sure that you are completely familiar with the controls.
- Study the operating instructions so that you are able to stop the machine quickly.
- Always keep the mower and accessories in good working order.
- Never operate the mower using faulty guards or without the use of safety devices.
- Never attempt to adjust your ride-on mower without the prior approval of the manufacturer.
- Unauthorized adjustments could be dangerous and result in serious injury to the user.
- Do not attempt to adjust the engine speed controls.
- Never race the motor as this will increase the risks of injury to the operator and the likelihood of damaging the components of your lawn mower.
- **WARNING:** Prolonged exposure to noise can be dangerous to health. The symptoms are progressive: tinnitus, temporary hearing loss, then progressive deafness. Use personal protection against noise. Limit the intensity and duration of exposure. Avoid mowing close to other sources of sound. Allow for rest periods.
- **WARNING:** Excessive exposure to vibration can affect the circulation or the nervous system. The symptoms appear mainly in the fingers, the hands or the wrists. These symptoms may include loss of sensation, pain, muscle weakness, change in colour of the skin, disagreeable tingling... Consult a doctor in case of appearance of symptoms that may be triggered by vibrations.
- Never allow your mower to be used by anyone who is not familiar with the operating manual.
- Always drive the machine at very low speed in forward or reverse when the grassbox is in high position.
- Never use your mower on slopes with a gradient of more than 10° (17,6%) (picture 1).

- Always observe the special instructions concerning use of the mower on sloping ground.
- Never drive your mower too close to embankments or ditches, on soft ground, or where there is a risk of overturning.
- The user is responsible for ensuring the safety of others within the area where the mower is being used. Keep third parties out of the way whilst mowing to avoid injury to others caused by flying stones and other objects.
- Keep a safe distance from people and animals when the engine is running. Do not start the machine if there are any around you.
- Never allow passengers to ride on the mower.
- Never allow children under the age of 16 to drive the mower.
- When parking your lawn mower, depress the button on the end of the lever and pull upwards to lock the park brake, stop the engine and remove the key.
- Always remove the ignition key when leaving the mower unattended, even momentarily.
- Disengage the drive mechanisms and accessories for transport or when they're not used.
- Before using the mower, always check the condition and adjustment of the blade.
- Never attempt to carry out work on or underneath the mower if it has been raised on temporary supports or without taking proper safety precautions.
- Before mowing, always clear the lawn of stones, pieces of wood or metal, wire, bones, plastic, branches and other debris liable to be thrown out by the mower.
- Disengage the cutting system, stop the engine and take the switch key away in following cases:
 - before removing grass from the machine
 - after you have hit an object in order to check for damage and to repair if necessary
 - if the machine begins to vibrate abnormally in order to look for causes
 - if the blade is blocked (blade clutch out of order).
- Low branches liable to cause injury to the user should also be removed.
- Protect the face and the eyes when mowing under trees.
- Avoid obstacles such as mole hills, concrete pedestals, tree stumps and edging, which cannot be cut by the blade and which could damage the cutting mechanism specially the blade.
- Change absolutely the blade after any shock.

1 • YOUR SAFETY AND THAT OF OTHERS

- Exercise particular care when reversing.
- Never place hands or feet under the cutter housing.
- Whilst mowing, take care to avoid injury to others caused by flying stones and other objects.
- The lights provided on your ride-on mower are only intended to be used when moving the machine. They do not allow night working, or only with good artificial lighting.
- Operate the mower only in broad daylight or with good artificial lighting.
- Do not mow during thunderstorms.
- Loose clothing and short trousers should not be worn when using the mower.
- Always wear stout and closed shoes.
- Wear ear defenders.
- When adjusting the engine or moving parts, always switch off the engine and remove the ignition key. Cut the electrical supply using the circuit breaker if your machine is equipped with one. Close the hand brake.
- Never operate the machine when feeling tired or unwell.
- Never operate the machine after consuming alcohol or taking medicine.
- When the mower is driven on surfaces other than grass, disengage the cutter and switch it to the fully raised position.
- Do not fill the tank whilst the engine is running. Allow the engine to cool for few minutes before filling.
- The ride-on mower cannot be used on the public highway unless equipped with the road-approval kit MXBUF.
- To tow loads, use only tow bars bearing the reference of ETESIA: MRD100.

LIABILITY

- The indications given in these instructions must be followed. For further information, contact your ETESIA dealer.
- ETESIA shall have no liability if the instructions or applicable regulations are not followed.
Do not dump your grass clippings in unauthorized areas.
- As ETESIA strives to make continuous improvements of its products, the company reserves the right to change the specifications of the presented models without advance notice. The photos and illustrations are not contractual.



WARNING:

Fuel is highly flammable.

- Fuel should be stored in clean containers specially designed for this purpose.
- Always fill the fuel tank in the open and do not smoke during this operation.
- Add fuel before starting the engine. Never remove the fuel cap whilst the engine is running or hot.
- If diesel is spilt, do not attempt to start the engine: remove the mower from the affected area and take care not to ignite any undispersed diesel vapour.
- Ensure that the fuel tank and fuel can caps are replaced correctly.
- Never store, pour or use petrol near a naked flame or near devices such as stoves, water-heaters with pilot lights or any other device liable to produce sparks.
- Ensure that the fuel lines and fittings do not have any breaks or leaks. Have them replaced if necessary.
- **WARNING : NEVER ALLOW THE ENGINE TO RUN IN CONFINED AREAS.** Exhaust gases contain carbon monoxide, which is odourless and can kill.
- Do not start the engine if you can smell petrol, or in the presence of other risks of explosion.
- To avoid any burn, do not touch the exhaust pipe when it is hot.
- Clean regularly the exhaust, the engine, the battery compartment, and the periphery of the fuel tank in order to avoid accumulation of flammable materials (grass, leaves, grease excess, etc).
- The use of counterfeit parts or poor maintenance can alter the performance of your product, or present a danger to you and other people. Use only original parts and follow the maintenance schedule.
- These precautions are vital to your safety. However, the recommendations given are not exhaustive and due care should always be exercised when using your mower.
- You should also comply with any legal requirements relating to ride-on mowers (e.g. insurance, useful life, etc).

INSURANCE

Remember that a ride-on mower is considered as a land motor vehicle, and for this reason, it should be insured in accordance with the legislative and regulatory provisions in force.

2• KEY TO DIAGRAMS - SAFETY

• LABELS

- Various labels have been affixed to your mower.
- Check that they are all present (see list below and photos).
- Labels with a yellow background warn against risks.
- The other labels contain instructions for operating the mower.



This symbol appears in the instruction manual alongside those sections which deal with user safety.



This symbol appears in the instruction manual alongside important information on how to prolong the life of your mower.

• SAFETY LABELS (see page 6)

DIAGRAMS RECTANGLE A

- a = CAUTION !
- b = Before using, please read and follow the safety and maintenance instructions of the instruction booklet.
- c = Stop the engine, remove the ignition key and disconnect the battery terminals before carrying out any maintenance operation or repairs.
- d = Risk of projections.
- e = Avoid the presence of third persons in the danger zone.
- f = Fall down risk. Never transport passengers.
- g = Hold the third persons far from the machine.
- h = Risk of toppling over the machine.
- i = Never use your ride on mower on slopes with a gradient of more than 17,6% (10°).

DIAGRAMS RECTANGLE B

- j = Risk of the machine toppling over.
- k = Do not drive with the grassbox raised.
- l = Do not top-empty on slopes of more than 8°.
- m = Do not top-empty on bankings of more than 8°.

DIAGRAMS RECTANGLE C

- n = Risk of cuts to feet and hands.
- o = Keep third persons away from the machine.

DIAGRAMS RECTANGLE D

- p = **CAUTION!** Do not lift the machine using the top-emptying hoop.

MARKING OF ACCUMULATORS

- q = Indicates these are hazardous products which should preferably be returned to the distributor.
- r = (Pb) indicates the presence of lead.
- s = Indicates the year of entry into service of the machine.

HEARING PROTECTION

- t = Recommended hearing protection.

ENGINE DIAGRAMS (*HVHP - HVHPX - BVHP - BVHPX*)



Fuel is highly explosive and flammable. Stop the engine before fill the fuel tank. **DO NOT SMOKE.** Always fill the fuel tank in the open and never pour or use petrol near a naked flame or near devices such as stoves, water-heaters with pilots lights or any other device liable to produce sparks.

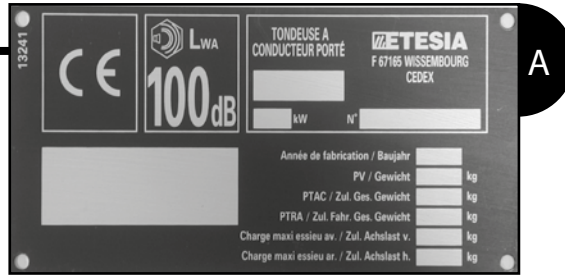
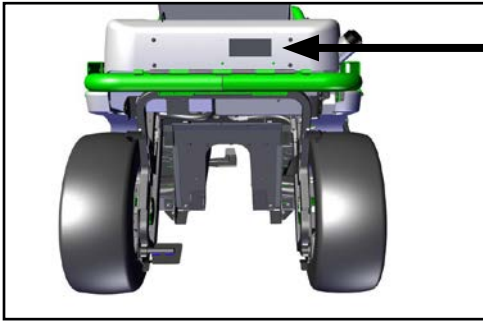


Exhaust fumes are very toxic and contain carbone monoxide which is a deadly and odourless poison. Do not run the engine in confined areas.

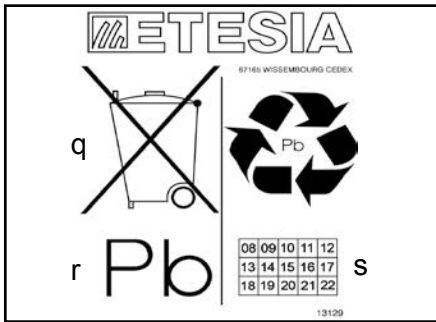


To avoid any burn, do not touch the exhaust pipe when he is hot.

2 • KEY TO DIAGRAMS - SAFETY



MARKING OF ACCUMULATORS



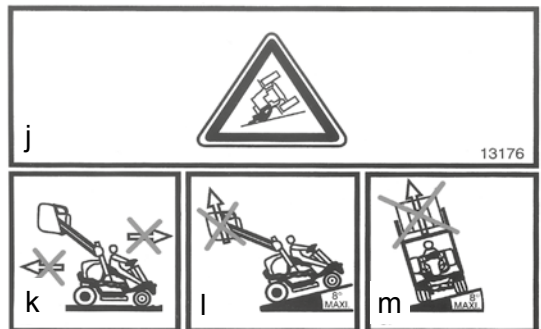
HEARING



RECTANGLE (A)



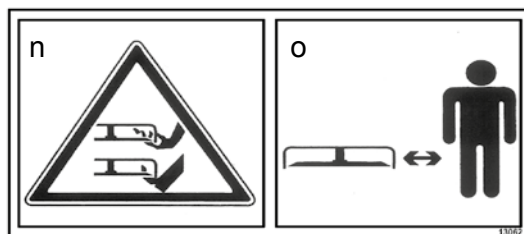
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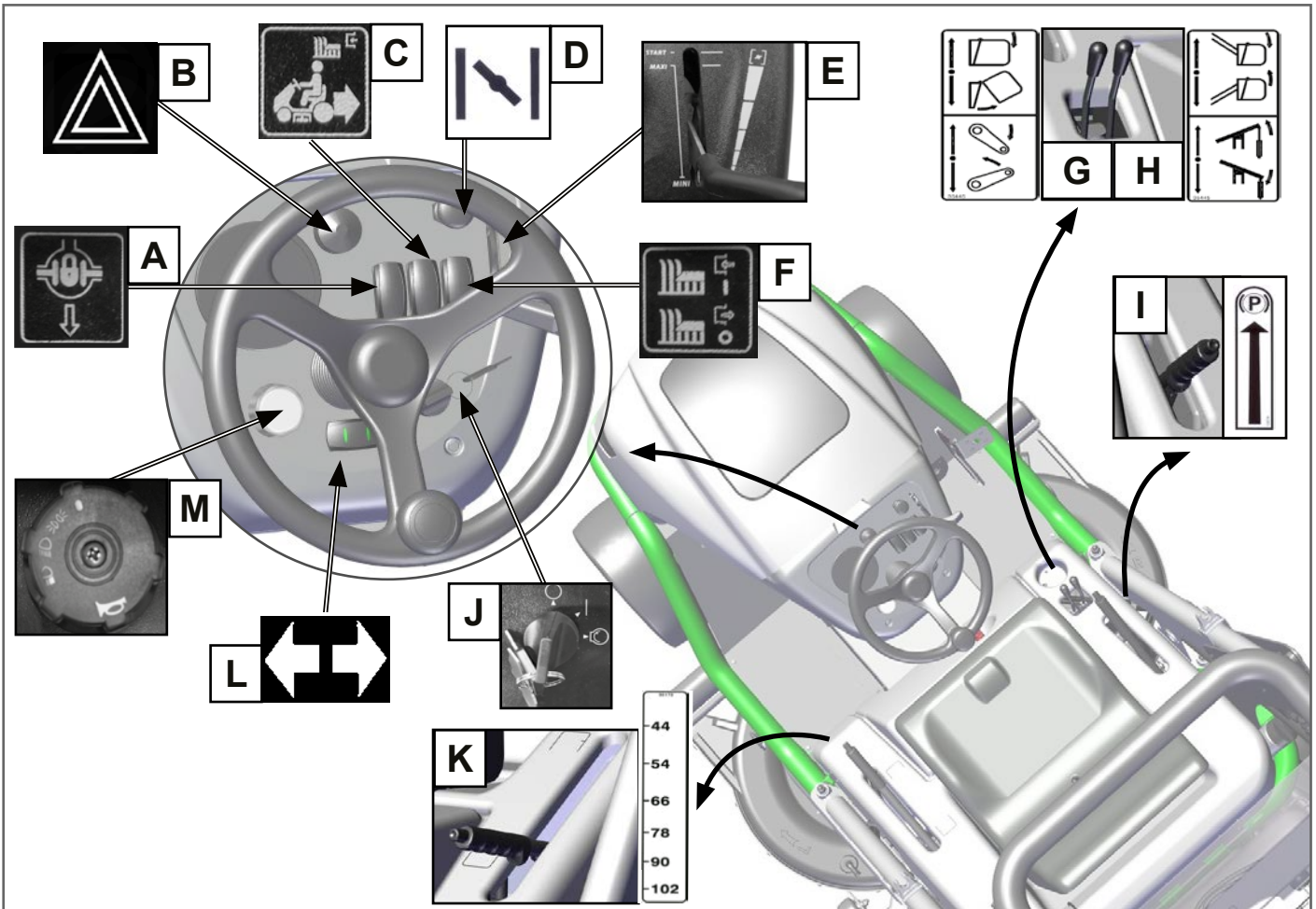
RECTANGLE (D)



RECTANGLE (C)



2• KEY TO DIAGRAMS - USE



A - DIFFERENTIAL (EXCEPT BHPX2, HVHPX AND BVHPX)

The arrow indicates the direction of movement to block the differential.

B - WARNING LIGHTS

C - CONTROL SWITCH « MOW IN REVERSE »

Once the cutter is in operation, press this switch once to mow with the machine in reverse.

Otherwise the cutter disengages as soon as you select reverse. It will re-engage with the advance lever when it reaches Neutral or Forward.

If you disengage the cutter with the engage cutting system switch or if a safety feature trips it, you will have to re-engage the cutter.

D - STARTER (FOR HVHP, HVHPX, BVHP, BVHPX)

Knob pulled out, position for starting with cold engine

E - ENGINE SPEED

MAXI : Engine at full throttle

MINI : Engine at idling speed

F - STARTING THE CUTTING UNIT

I : Cutting unit rotating

0 : Cutting unit stopped

G - OPENING / CLOSING THE GRASSBOX

Lever up: the grassbox opens
Lever down: the grassbox closes

Lever up: the front lift goes up
Lever down: the front lift goes down

H - RAISING / LOWERING THE GRASSBOX

Lever up: the grassbox goes up
Lever down: the grassbox goes down

Lever up: tilts to the right
Lever down: tilts to the left


I - PARKING BRAKE

To put on the parking brake, move the lever backwards.
To release the parking brake, move the lever forwards.

J - ENGINE START

0 : Engine off, electrical circuit power off


1 : Electrical circuit power on, engine pre-heating


 : Engine started

K - CUTTING POSITION

Indication en mm de la position de coupe (sur sol dur et plat).

L - DIRECTION INDICATOR

 Indication of direction change, left

 Indication of direction change, right

M - ROTARY SWITCH

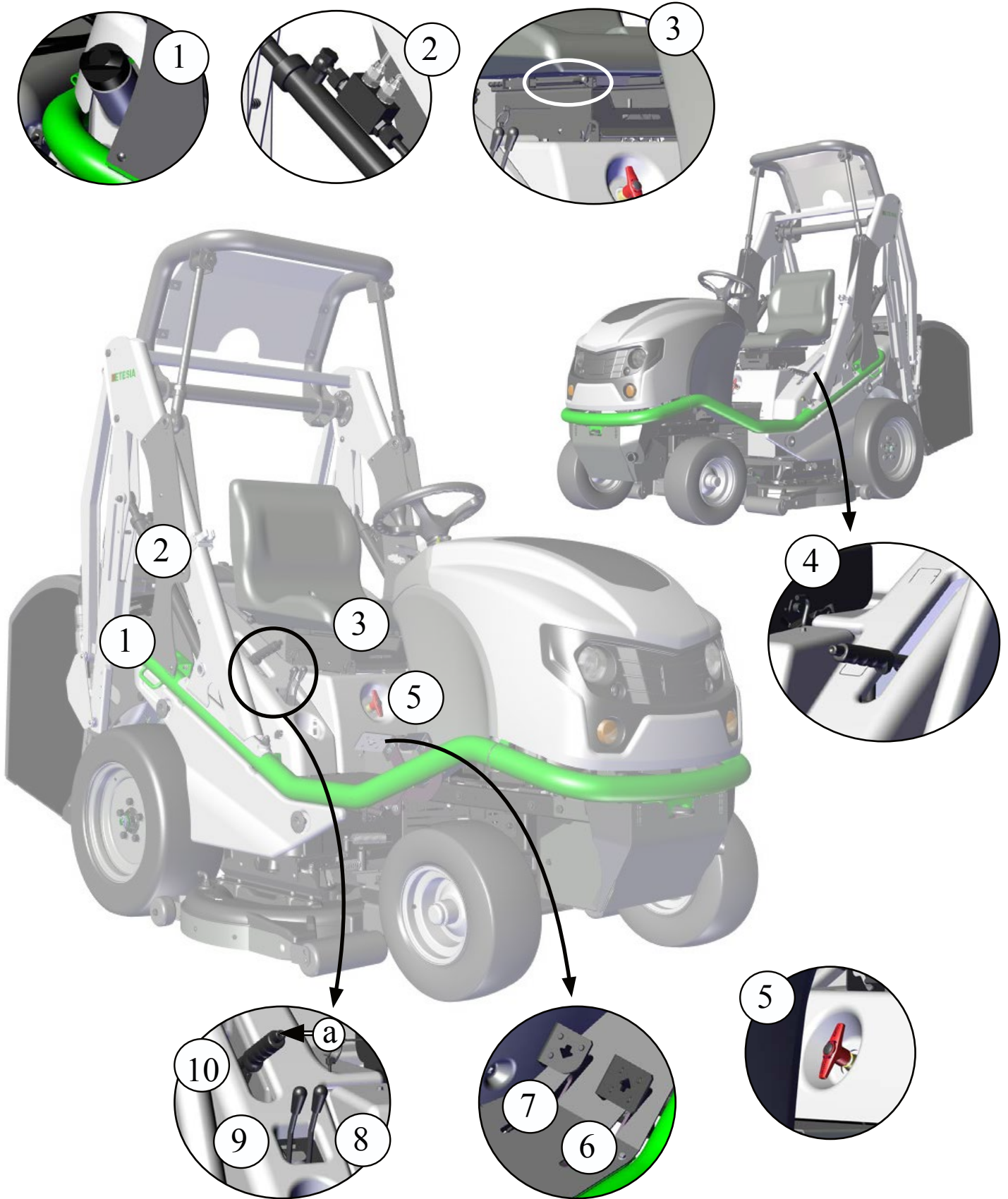
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 Sidelights

 Dipped headlights

 Driving lights

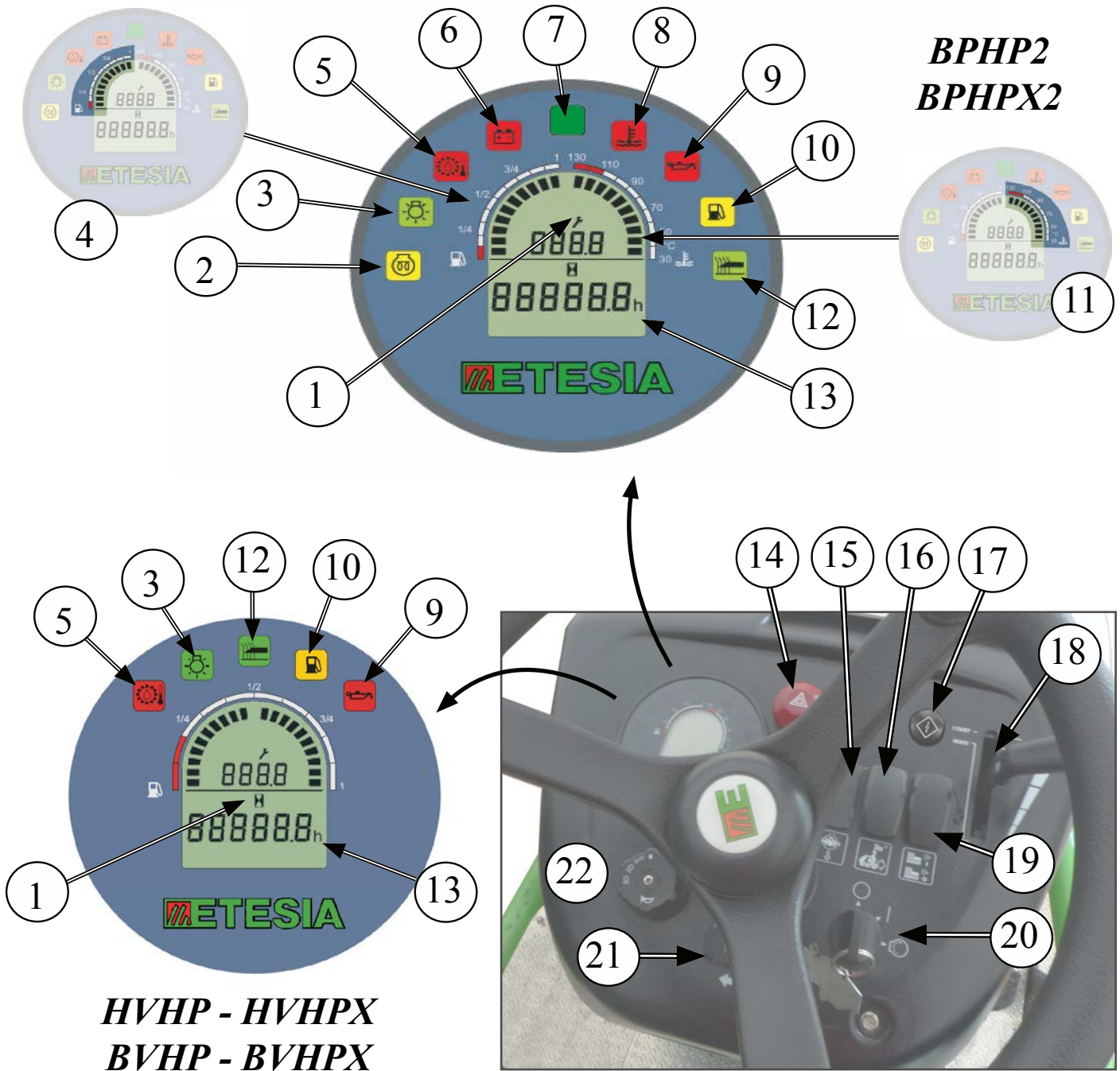
3 • DESCRIPTION



- 1. Fuel tank filler cap
- 2. Lifting jacks
- 3. Seat adjustment lever (longitudinal)
- 4. Cutting height adjustment lever
- 5. Circuit-breaker

- 6. Forward drive pedal
- 7. Reverse pedal
- 8. High lift emptying lever
- 9. Grassbox opening/closing lever
- 10. Parking brake lever

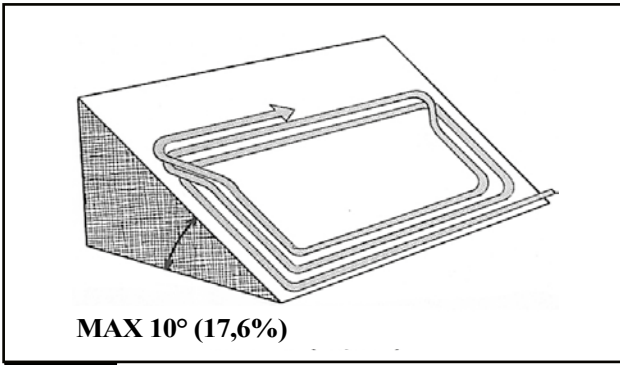
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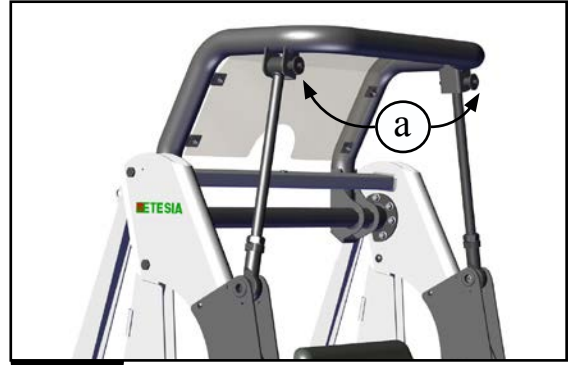
1. Maintenance cycle counter
2. Engine pre-heating warning light (*on BPHP2 - BPHPX2*)
3. Lights on indicator
4. Engine temperature indicator
5. Hydraulic circuit overheating warning light
6. Battery load warning light (*on BPHP2 - BPHPX2*)
7. Moving machine safety light (*on BPHP2 - BPHPX2*)
8. Coolant temperature warning light. A warning buzzer is combined with this light (*on BPHP2 - BPHPX2*)
9. Engine oil pressure warning light
10. Diesel low level warning light
11. Engine temperature indicator
12. Blade clutch safety light

13. Hour counter
14. Warning lights switch
15. Differential lock control switch (*except BPHPX2, HVHPX and BVHPX*)
16. «Mow in reverse» switch
17. Choke pull-knob (*except BPHP2 and BPHPX2*)
18. Engine speed control lever
19. Cutting unit control switch
20. Ignition key
21. Indicator control switch
22. Horn button
Sidelights, headlights and drivinglights switch

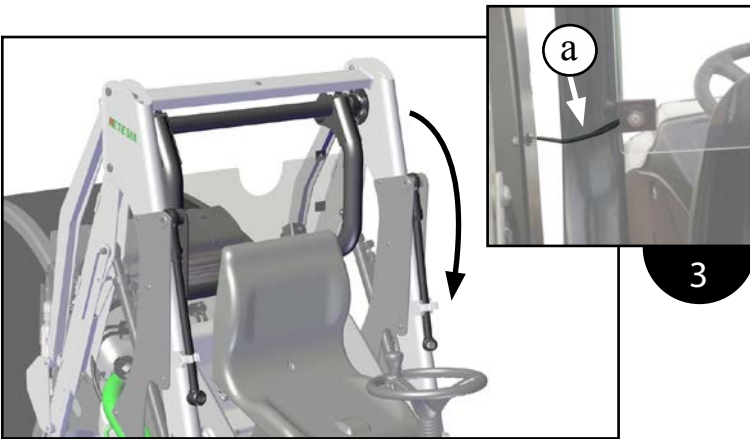
4• PICTURES



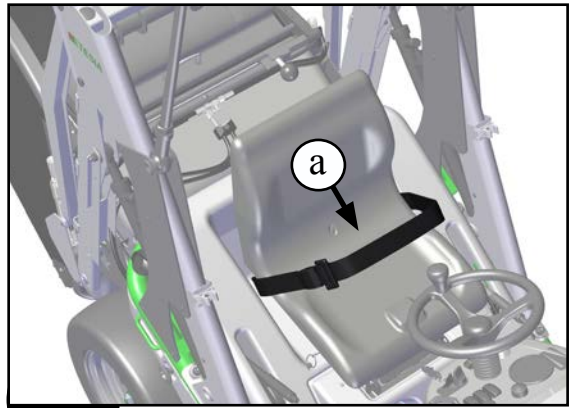
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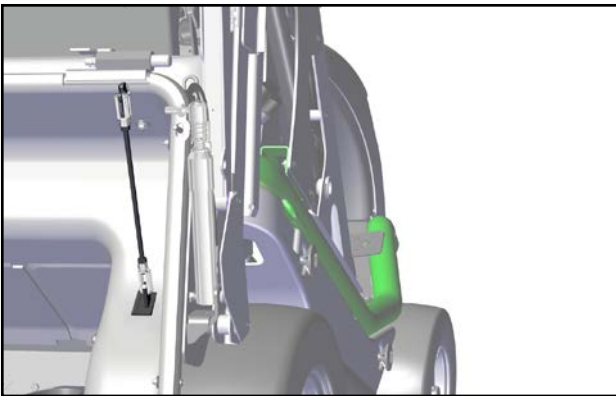
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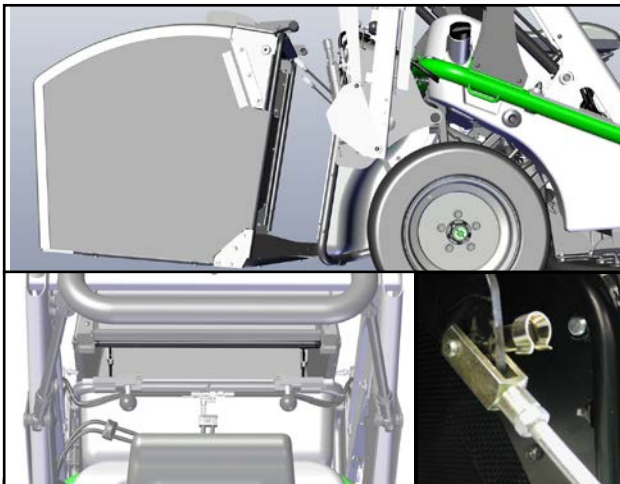
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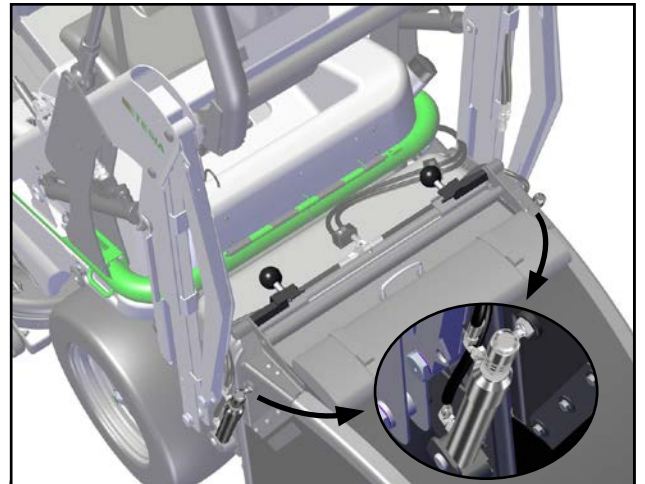
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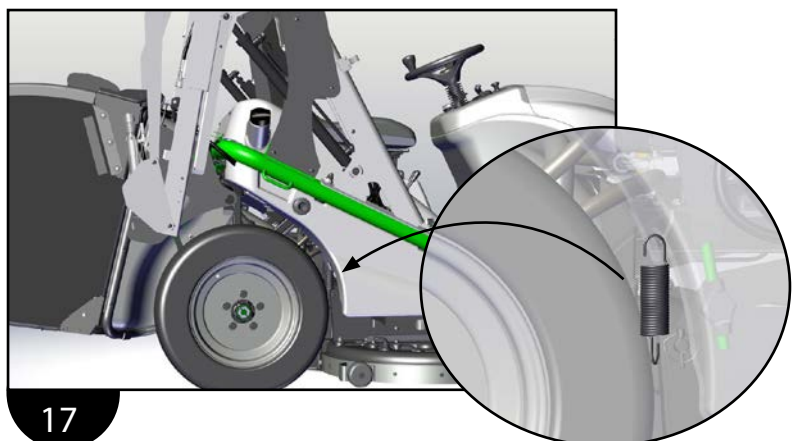
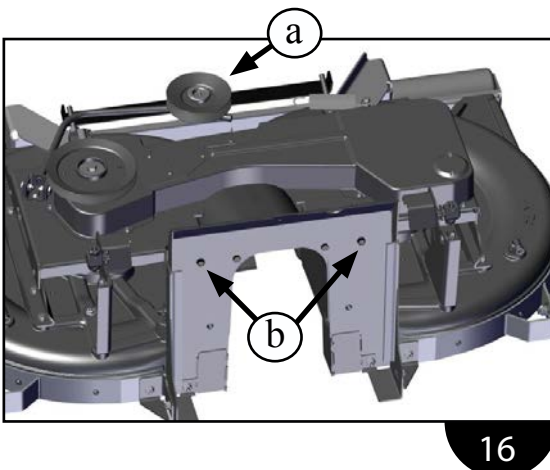
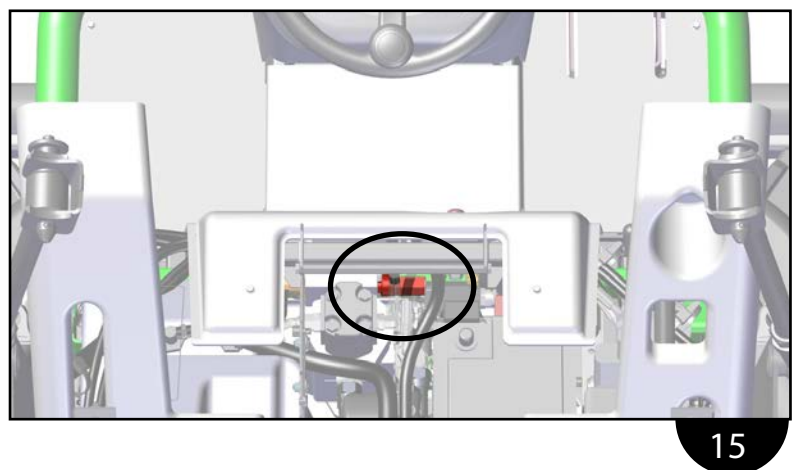
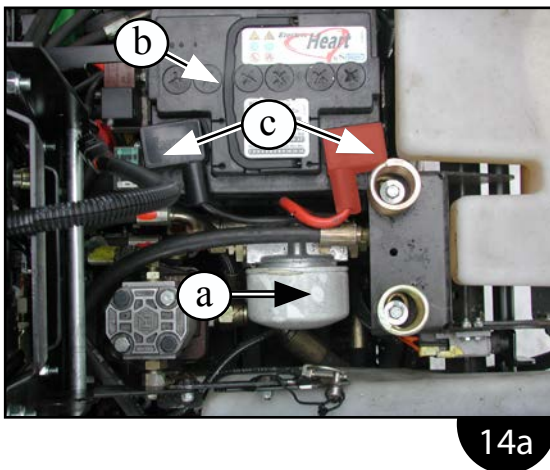
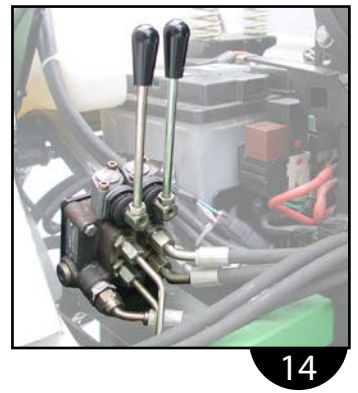
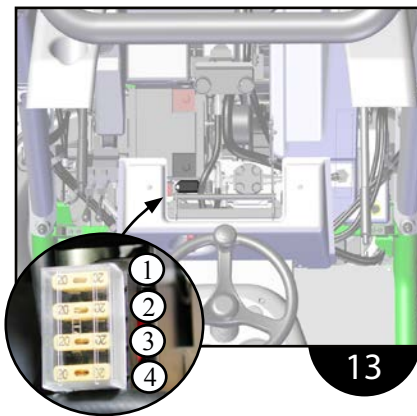
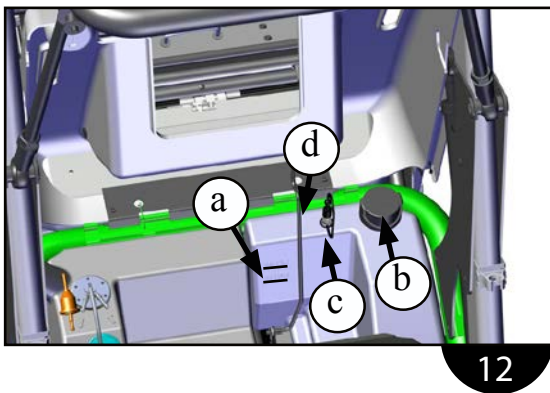
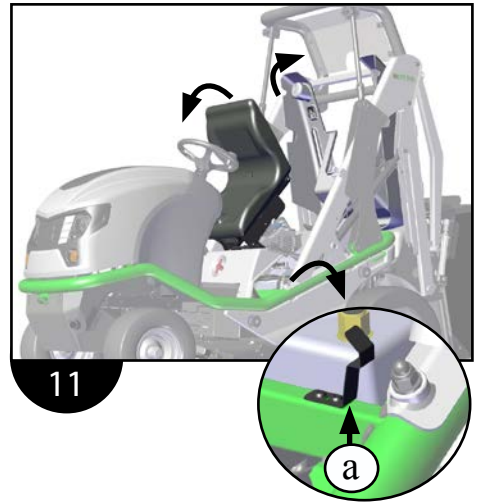
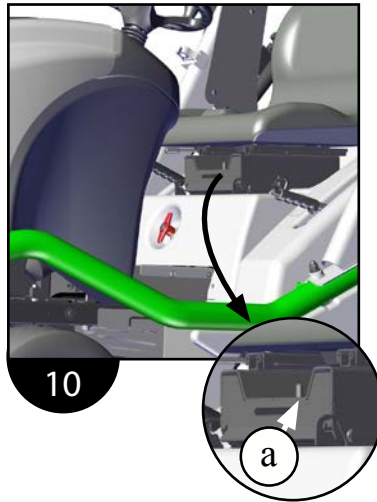
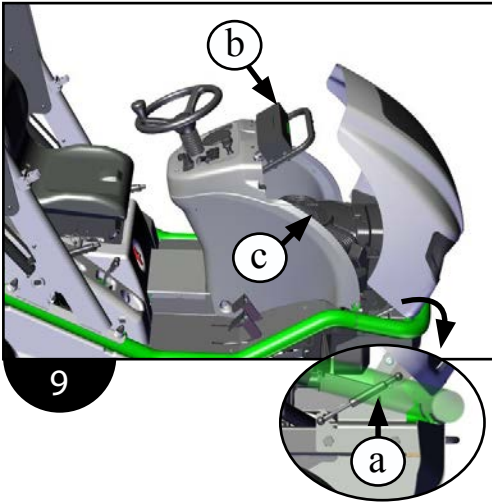


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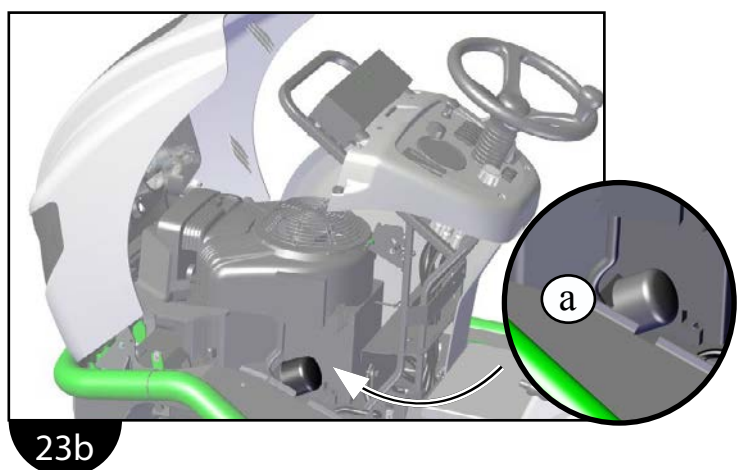
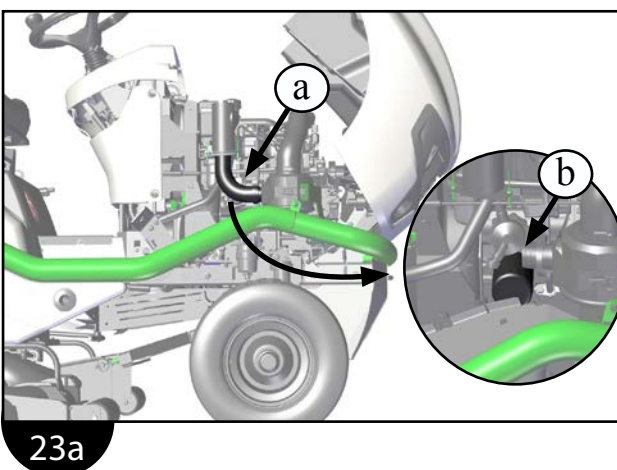
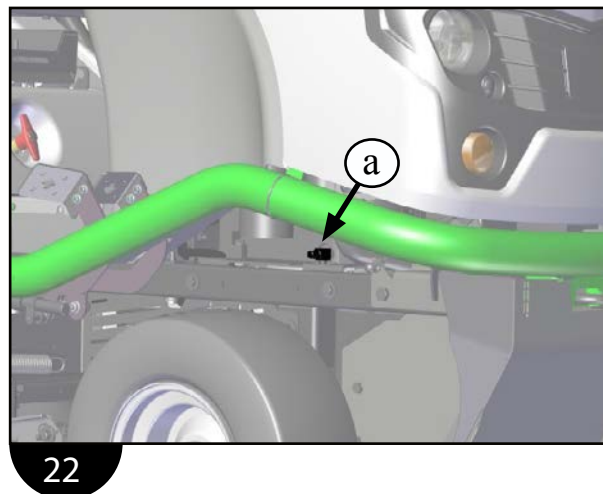
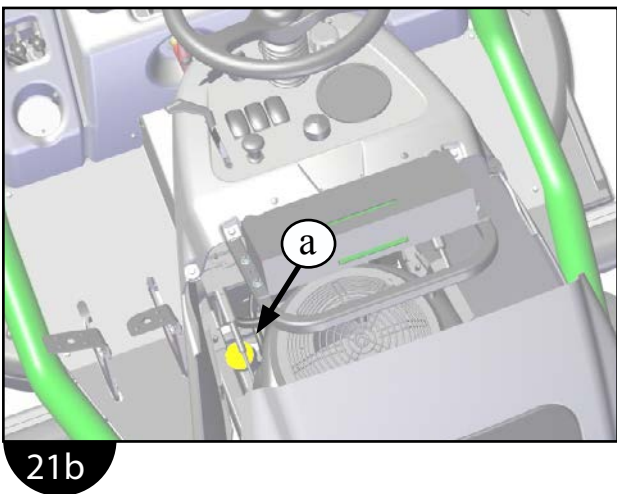
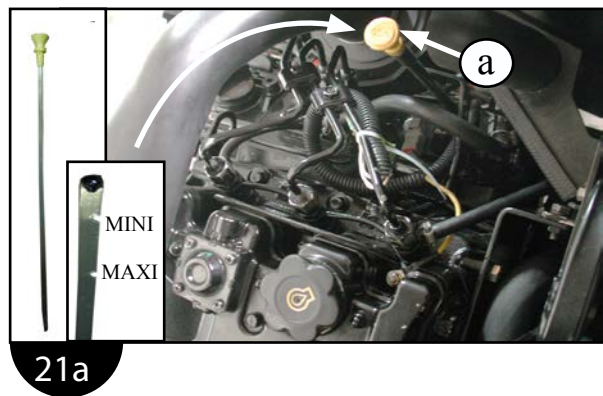
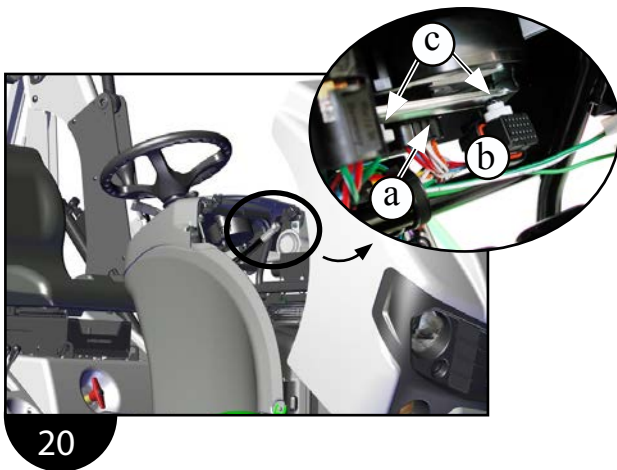
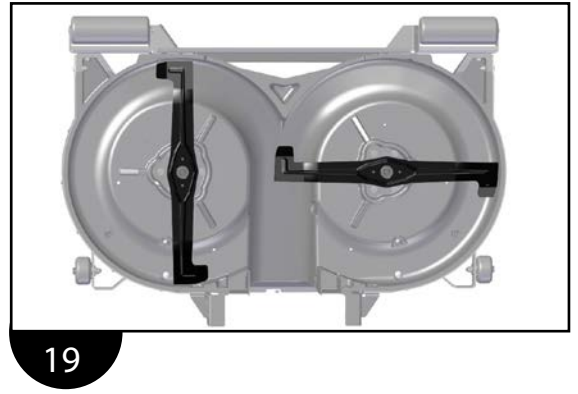


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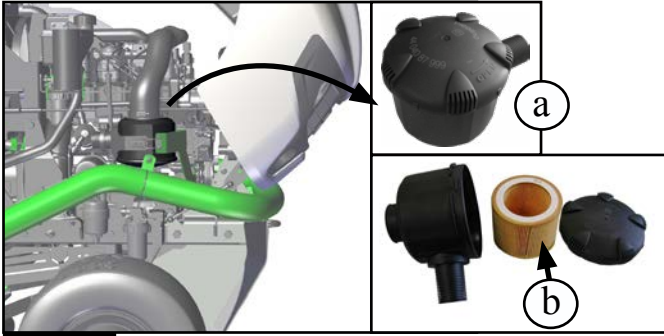
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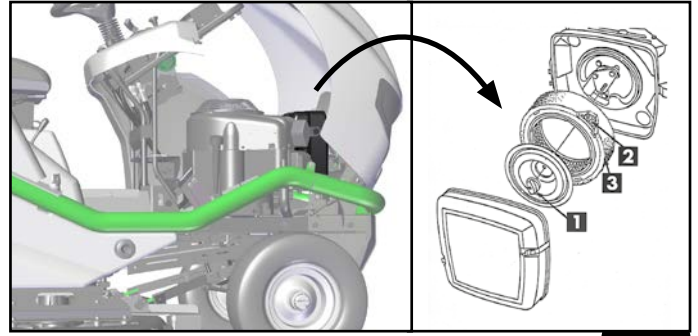
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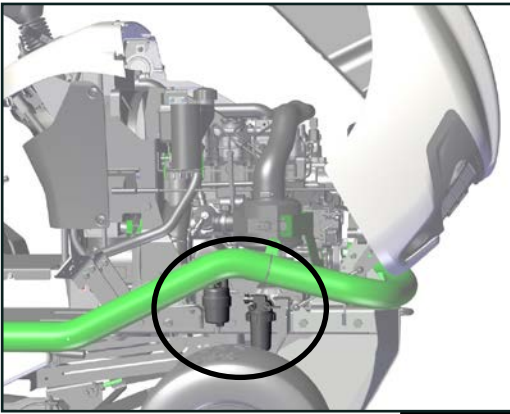
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24a



24b



25a



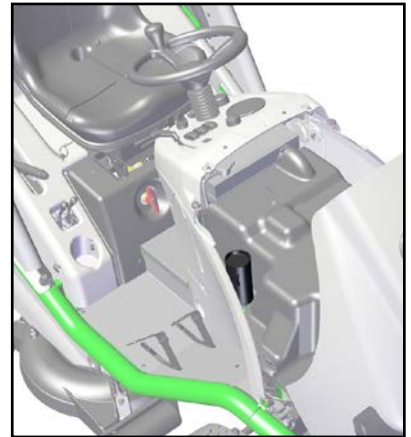
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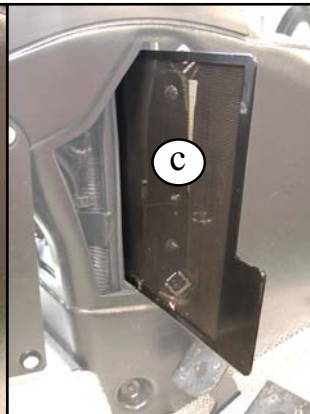
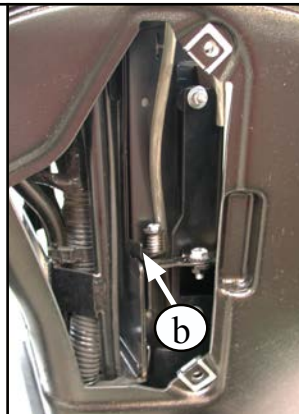
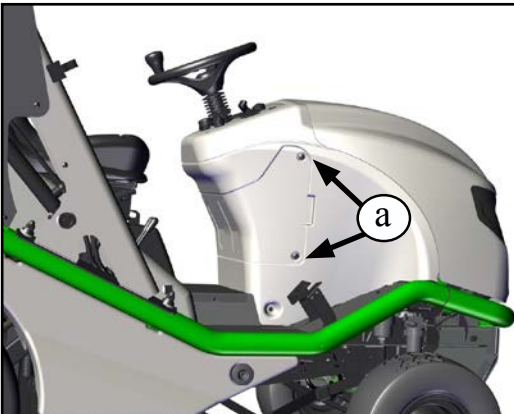
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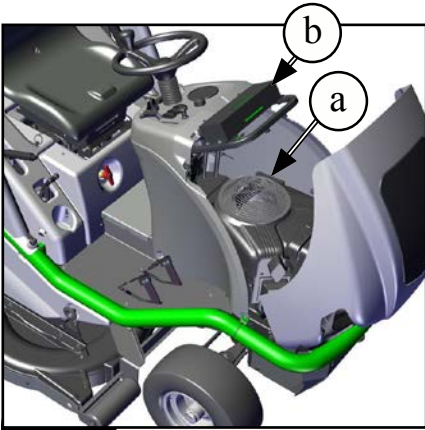


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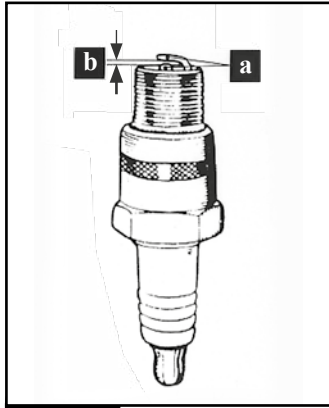


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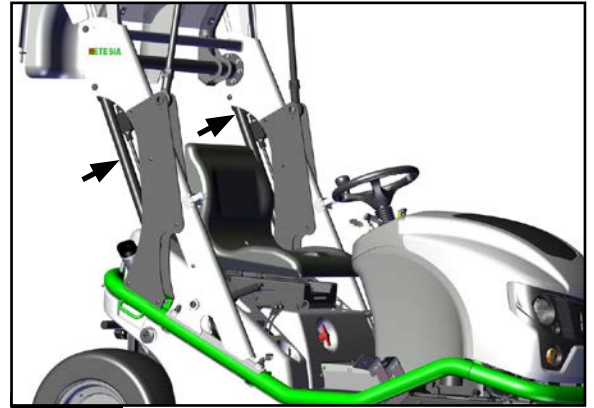
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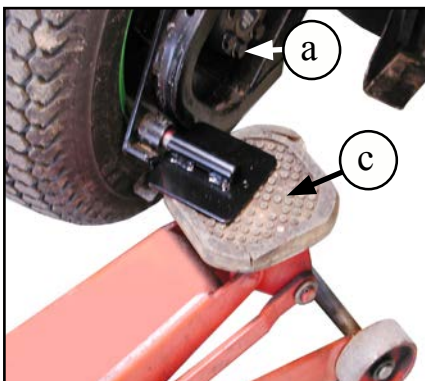
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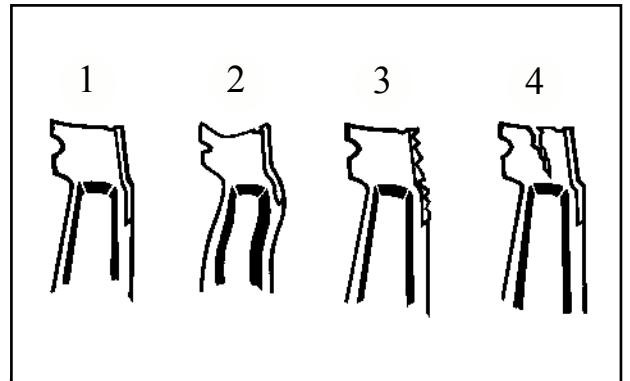
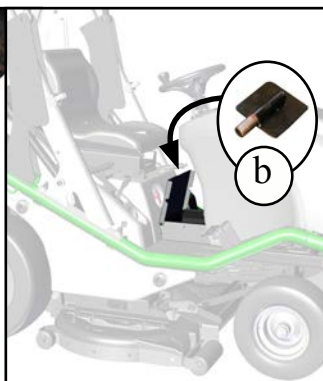
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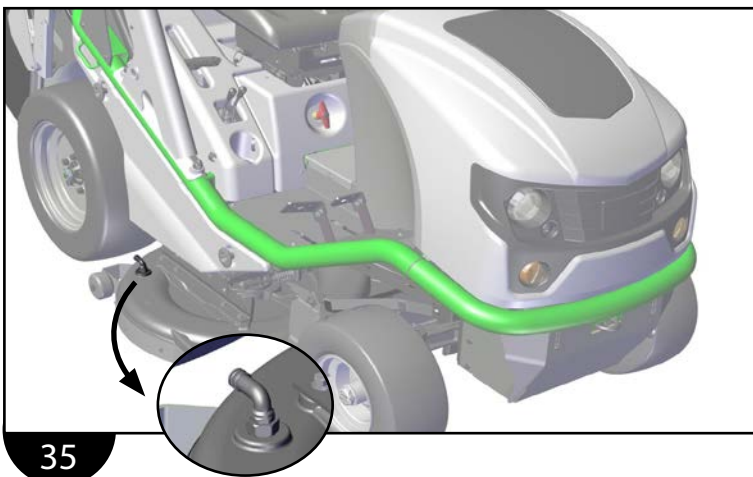
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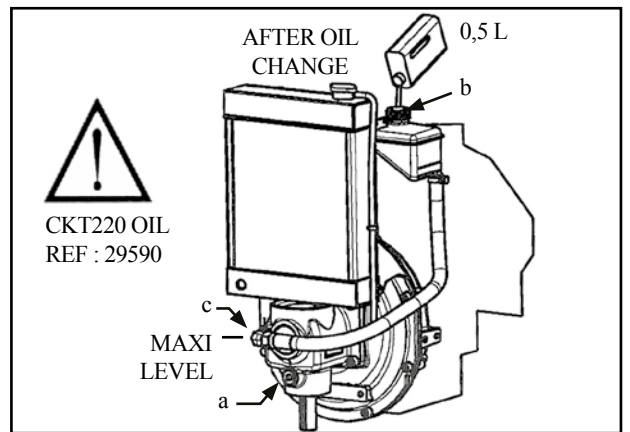
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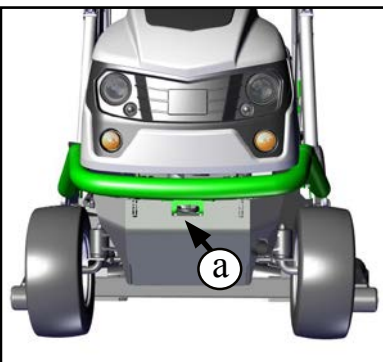
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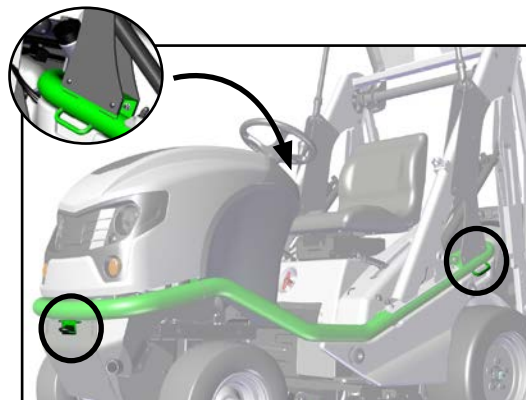
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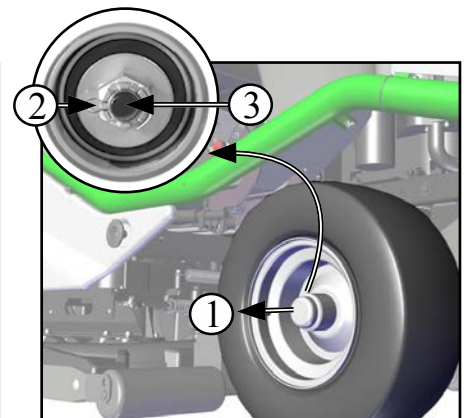
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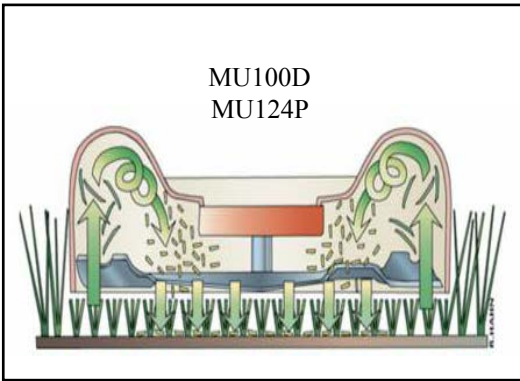


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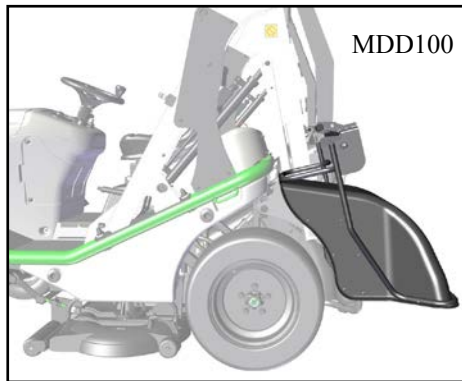


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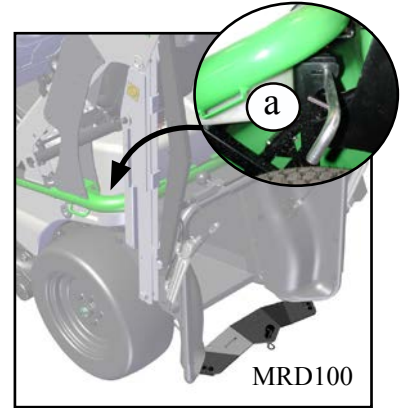
5• PICTURES ACCESSORIES IN OPTION



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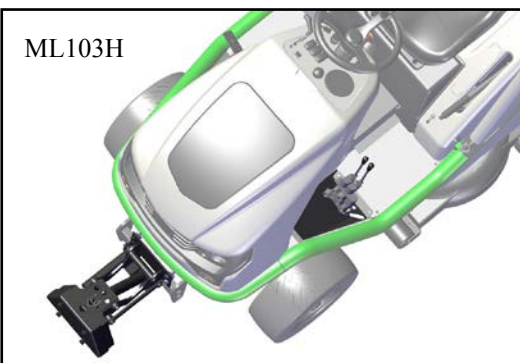
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6• TECHNICAL SPECIFICATIONS

MODELS	BPHP2 - BPHPX2		HVHP	HVHPX	BVHP	BVHPX
ENGINE	PERKINS 403D07		BRIGGS & STRATTON 3867770010B1			
Type	Diesel 3 cylinder		4 Stroke - OHV, 2 V-cylinder at 90°			
Bore x stroke	67 x 72 mm		75,5 x 70 mm			
Cubic capacity	760 cm ³		627 cm ³			
Fuel type	Diesel		95 unleaded fuel			
Power at rated speed	13,5 kW at 2900 min ⁻¹		14 kW at 2900 min ⁻¹			
Lubrication	By oil pressure					
Cooling	All-year cooling liquid			Air		
Starter motor	Electric 12 V					
Alternator	External 12 V - 40 A with regulator		12 V - 16 A with regulator			
Battery	12 V - 60 A					
Spark plug	12,5 V		Standard 14 x 19 mm special 16 mm on flat			
Engine oil filter	Cartridge					
Diesel filter	Cartridge		Diaphragm pump - Filter 40 µm			
Engine air filter	MANN+HUMMEL with cartridge		Foam filter + paper cartridge			
Engine oil sump capacity	3,05 l with filter		1,36 l - 1,42 l			
Fuel tank capacity	14,5 l					
Range with a full tank	1 day (depending on conditions)					
DRIVE TRANSMISSION						
Hydraulics	Reversible variable delivery piston pump - Geroler engine in the rear wheels					
Differential lock	Hydraulic by flow divider					
Forward / reverse speed	0 to 12 Kmph					
Hydraulic tank capacity	20 l					
Hydraulic tank air filter	10 µm					
Hydraulic oil filter (cartridge)	25 µm abs					
TRACTOR	BPHP2	BPHPX2	HVHP	HVHPX	BVHP	BVHPX
Weight empty (Kg)	tot: 683 - fr: 272 / re: 411	tot: 713 - fr: 275 / re: 415	tot: 621 - fr: 210 / re: 412	tot: 648 - fr: 233 / re: 415	tot: 603 - fr: 199 / re: 404	tot: 630 - fr: 222 / re: 406
Dimensions (L x l) with grassbox	2920 x 1050 mm	2920 x 1050 mm	2920 x 1280 mm	2920 x 1280 mm	2920 x 1050 mm	2920 x 1050 mm
Dimensions (L x l) with deflector	2600 x 1050 mm	2600 x 1050 mm	2600 x 1280 mm	2600 x 1280 mm	2600 x 1280 mm	2600 x 1280 mm
Height with ROPS frame retracted	1730 mm					
Height with ROPS frame in use	2000 mm					
Front track width	808 mm					
Rear track width	828 mm					
Wheel base	1360 mm					
Chassis	Mechanically welded tubular, high-clearance type					
Steering	Hydraulic-orbitrol system and single rod double-acting jack					
Tyres			Front : 16x6.5x8 Pressure : 1,2 bars	Rear : 23x8.5x12 Pressure : 1,2 bars		
Radius of non-mowed surface	1,1 m					
Dynamic brake	Hydraulic with drive transmission					
Parking brake	Disc on the rear wheel					

6• TECHNICAL SPECIFICATIONS

MODELS	BPHP2 - BPHPX2	HVHP	HVHPX	BVHP	BVHPX
MOWING SYSTEM					
Cutter housing	Opposed double volute - in cast aluminium	Opposed double volute - in mastershock	Opposed double volute - in mastershock	Opposed double volute - in cast aluminium	Opposed double volute - in cast aluminium
Type of assembly	Suspended plate				
Number of blades	2	2 blades of 65 cm - Covering of 6 cm		2	
Direction of rotation	Opposite				
Blade clutch	Electromagnetic with brake incorporated				
Blades protection (from impacts)	Shearing screws				
Cutting width	100 cm	124 cm		100 cm	
Cutting height	Choice of 6 positions: 44 - 54 - 66 - 78 - 90 - 102 mm				
Ejection	Rear central directly into the grassbox				
Anti-scalp system	2 rollers (front and rear)				
GRASS COLLECTION SYSTEM					
Grassbox capacity	Approx 600 L				
Structure	Tubular-canvas treated anti-UV				
Grassbox emptying	Hydraulic to ground level or at heights up to 1,80 m				
SAFETY SYTEM					
Operator presence contactor (seat) - Grassbox / deflector presence contactor					
BLADES	MZ102D (right) MZ102G (left)	MZ124R (right) MZ124L (left)		MZ102D (right) MZ102G (left)	
NOISE LEVEL					
Sound pressure at driver's seat (reference standards NF EN ISO 5395)	LpA = 85 dB (A) KpA = 2,5 dB (A)	LpA = 90 dB (A) KpA = 2,5 dB (A)		LpA = 85 dB (A) KpA = 2,5 dB (A)	
VIBRATION					
Whole body					
Directive 2006/42/CE, Standards reference ISO 5395, EN1032, EN1033	ahw = 0,96 m/s ² (K = 0,48 m/s ²)	ahw = 0,53 m/s ² (K = 0,26 m/s ²)		ahw = 0,53 m/s ² (K = 0,26 m/s ²)	
Directive 2002/44/CE, Standards reference ISO 2631-1, ISO 5349-1+2	1,4 awx - 0,88 m/s ² ; 1,4 awy - 0,88 m/s ² ; awz - 0,36 m/s ²	1,4 awx - 0,26 m/s ² ; 1,4 awy - 0,44 m/s ² ; awz - 0,39 m/s ²		1,4 awx - 0,26 m/s ² ; 1,4 awy - 0,44 m/s ² ; awz - 0,39 m/s ²	
Values to specify the daily exposure time	A(8) = 0,88 m/s ²	A(8) = 0,44 m/s ²		A(8) = 0,44 m/s ²	
Upper limbs					
Directive 2006/42/CE, Standards reference ISO 5395, EN1032, EN1033	ahw = 1,65 m/s ² (K = 0,82 m/s ²)	ahw = 3,15 m/s ² (K = 1,57 m/s ²)		ahw = 1,41 m/s ² (K = 0,70 m/s ²)	
Values to specify the daily exposure time	A(8) = 1,65 m/s ²	A(8) = 3,15 m/s ²		A(8) = 1,41 m/s ²	

7• OPERATING INSTRUCTIONS

7•1 PDI - PRE DELIVERY INSPECTION

- Because this is a highly technical operation, the PDI of your ride-on mower is done by your ETESIA dealer.

7•2 SAFETY SYSTEMS

- The mower is equipped with a safety frame (picture 2) and a seat belt (a picture 4). For your safety, only use the mower with the safety frame up. It can be folded down by removing the safety pin (a picture 2) and pivoting the frame on its axis (picture 3). In the folded position, the frame must be locked against rotation by the cord (a picture 3).



Always fasten the seat belt when the ROPS is in the position of use.



Never fasten the seat belt when the ROPS is not in the position of use.



Lower and raise the ROPS frame cautiously so as not to pinch your fingers between the fixed and moving parts.

- The mower is fitted with safety switches which are actioned by:
 1. the drive transmission operating link
 2. the rear part of the grassbox and/or the front of the grassbox (with lift-emptying)
 3. the parking brake
 4. the seat.
- Engine can only be started if:
 - the driver is sitting on the seat or the parking brake is on
 - both driving pedals are in neutral position
 - the cutting unit is not engaged.
- The engine stops if:
 - the operator leaves the seat without putting on the parking brake
 - the operator leaves the seat with the cutting unit engaged
 - the operator presses a drive pedal with the parking brake on
 - the operator is driving too fast without the bin in the working position (*with HVHP - HVHPX - BVHP - BVHPX models only*).
- The cutting unit stops if:
 - the operator leaves the seat
 - a grassbox emptying operation is on its way.
- The cutting unit can only be started if:
 - the driver is sitting on the seat
 - the rear part of the grassbox is in the closed position
 - the grassbox is in the working position.

REMARK: if the blade engagement indicator (item 12 page 9) is on, you can start blades.



CAUTION! Opening the grassbox stops the cutting unit. The cutting unit starts again as soon as the grassbox unit is back in the working position.

- The machine only moves if:
 - the driver is sitting on the seat
 - the parking brake is off.

REMARK: for *BPHP2 and BPHPX2 models*, if the 'safe to move machine' indicator (item 7 page 9) is on, you can move the machine.

7•3 FUEL

The engine uses diesel for *BPHP2 and BPHPX2 models*. The engine uses 95 unleaded fuel for *the HVHP, HVHPX, BVHP and BVHPX models*.



WARNING ! Use clean and fresh fuel. Handle the fuel with care. When filling the tank, use a funnel and wipe any fuel splashes immediately.

Do not fill the tank with the engine running or when the engine is hot. Never smoke. Avoid any flames or sparks.

- When filling the tank, please avoid fuel spilling.
- If, in spite of these precautions, should some fuel spilled please:
 - a) Clean all the contaminated parts scrupulously.
 - b) Only restart the machine after you have checked that all spilt fuel has been eliminated.
- Ensure that the fuel tank cap is screwed on tightly.
- The tank must be emptied out of doors (in the open air).

NOTE: In cold weather, the viscosity of diesel increases and paraffin crystals form. This may affect the performance of the engine as its fuel supply is defective. In this case, use winter quality diesel, which can be used at temperatures as low as -20°C.

- To avoid the poor running of the engine, after it has been polluted (condensation water, detritus), the fuel tank must be emptied every 1000 hours or once a year.

7•4 LONGITUDINAL SEAT ADJUSTMENT

For maximum comfort, the seat can be adjusted (items 6 and 7 page 8).

- To unlock the seat, lift the lever (item 3 page 8).
- Move the seat into the position required.
- Release the lever and check that the seat is blocked in position.

REMARK: The seat can be folded forward in order to keep it clean and dry.

7•5 STARTING AND STOPPING THE ENGINE


Checks before starting

- The machine is delivered ready for use. Nevertheless you should check:
 - the engine oil level (see paragraph 10•1•1 page 25).
 - the oil level in the hydraulic tank (see paragraph 10•2•1 page 27). We ask you as well to fill up with fuel before using for the first time.
- Check that all the safety labels are stuck on the machine (page 6). Be particularly sure to follow the instructions in paragraph 1 «Your safety and that of others».


7• OPERATING INSTRUCTIONS

7•5•1 STARTING

BPHP2 - BPHPX2

- Sit on the seat.
- Ensure that the cutting unit start/stop switch is in the stop position.
- Put on the parking brake.
- Place the engine speed control lever on the [medium] position. Do not press on the drive pedals.
- Turn the ignition key to position 1 (power on and pre-heating).
- As soon as the pre-heating indicator light goes out, turn the ignition key to the start position .
- Never turn the key for more than 4 seconds.
- The engine is running, release the key and bring the engine speed control lever back to the MINI position.
- Let the engine run for a few minutes before changing to full throttle and starting the cutting unit.

HVHP - HVHPX - BVHP - BVHPX

- Sit in the seat.
- Make sure that the cutting system start and stop switch is in the off position.
- Engage the parking brake.
- Set the engine speed controller to the MAXI position. Do not press on the drive pedals.
- Pull on the choke control if the engine is cold.
- Turn the ignition key to the starting position .
- As soon as the engine turns over, release the key and set the throttle control between the MINI and MAXI positions.
- Push in the choke knob.
- Let the engine run for a few minutes before changing to top speed to turn on the cutting system.



CAUTION! Do not change the original engine settings; do not increase the engine speed as this risks to increase the hydraulic flow and damaging parts of the hydraulic circuit.



CAUTION! Do not place hands or feet on any moving parts. The exhaust gases are toxic, do not leave the engine running in a closed space.

7•5•2 STOPPING THE ENGINE

- When necessary, stop the cutting unit.
- Put on the parking brake.
- Bring the accelerator lever to the MINI position.
- Switch off the ignition by placing the key in the [0] position.



CAUTION! When the machine is not in use or is left unattended, remove the ignition key.

7•6 DRIVE PEDALS

- The drive controls take is ensured by two pedals located on the right of the footboard.
- The exterior pedal is for forward, the interior pedal is for reverse. Each pedal is marked with an arrow indicating the direction of movement of the machine (items 6 and 7 page 8).
- These pedals control the speed of the mower's movement (from stationary to maximum speed), but also the dynamic braking.

- When you release the pedal, the mower is progressively braked until it stops completely.

7•7 DIFFERENTIAL LOCK (ALL MODELS EXCEPT BPHPX2, HVHPX AND BVHPX)

- Differential lock is a device that re-establishes drive on the two rear wheels in the event of one of them losing adherence (wheel spin). To engage it, press the switch (item 15 page 9).

7•8 STARTING AND STOPPING CUTTING UNIT (BLADES)

7•8•1 STARTING

- Place the throttle control on the MAXI position (item 20 page 9).
- Flip the cutting unit start switch forward to the cutting unit [engaged] position (item 19 page 9).
- The cutting unit can only be started if the user is sitting on the seat and the grassbox is in its working position with the rear part closed.

7•8•2 STOPPING

- To stop the cutting unit, flip the switch backward into the [0] position.
- Opening the grassbox (or lifting it) will stop the cutting unit (blades).
- They will start again as soon as the grassbox is in the working position (box closed and in the low position).

7•8•3 CONTROL SWITCH « MOW IN REVERSE »



Once the cutter is in operation, press this switch (item 16 page 9) once to mow with the machine in reverse. Otherwise the cutter disengages as soon as you select reverse. It will re-engage with the advance lever when it reaches Neutral or Forward. If you disengage the cutter with the engage cutting system switch or if a safety feature trips it, you will have to reengage the cutter.

7•9 DRIVING THE MOWER

- Release the parking brake.
- Slowly press the right-hand side pedal to move the mower forward or on the left-hand side pedal to go reverse.
- Choose the driving speed corresponding to a satisfactory quality of cut.
- You will not obtain a nice cut if the drive speed is too high or if the rotation speed of the cutting unit (blades) drops under the effect of an overload.
- To get the best results, always keep the engine at full throttle when mowing.
- When you are mowing on a slope or in long grass, if the engine speed drops, do not press harder on the drive pedal. Reduce the drive speed, rather. The pedal does not serve to adjust the engine speed - it is not an accelerator.



CAUTION! To stop the mower rapidly, take your foot off the drive pedal and activate the parking brake.

7• OPERATING INSTRUCTIONS

- During traveling without mowing, always stop the blades from turning.
- If you activate the pedal with the parking brake on, the engine stops.

7•10 CUTTING HEIGHT ADJUSTMENT (6 POSITIONS)

- Move the lever (item 4 page 8) down to lower the cutter housing, and up to raise it.
- Use a high setting for tall and wet grass: position 4 (78), 5 (90) and 6 (102).
- Only use the lower settings for smooth, regularly maintained lawns.



CAUTION! For this operation, the operator must be sitting on the seat and other people kept away from the mower as there is a risk of their feet being crushed.

7•11 INSTALLATION OF THE REAR PART OF THE GRASS COLLEC- TION SYSTEM

- The grass collection system is made of of two parts: the front part fixed on the lifting arms and the rear part.
- The rear part is installed as follows:
 - If it is not already in place, position the flap control rod (picture 5).
 - Bring the rear part up to the front part. Rest in on the supports provided for this purpose (picture 6).
 - Connect the 2 flap connecting rods onto the rear part (picture 7).
 - Lock the rear part of the grassbox onto the front using the handles (picture 8).
 - Fix the two jacks to the grassbox aligning the ends of the jacks with the ball joints situated on the sides of the rear part (picture 8).
- To remove the rear part, carry out the operations in reverse order.



PROJECTION HAZARD.

Frequently check the collection system and ensure in particular that the fabric of the rear part shows no signs of wear or deterioration.

7•12 MOWING WITH GRASS COLLEC- TION

The picture 1 shows the optimum way of using the mower on most lawns.

- These indications allow you to avoid tight turns and unnecessary movements.
- When you are mowing with a low cutting position, you must use a slow speed, to ensure optimum grass collection.
- Before mowing, check the blades conditions. They have to be tight and in the correct position. See paragraph 10•5 - Maintaining the cutting unit, page 28.
- Before starting to mow you must also check that the grassbox is attached correctly. Move forward the control levers of the collection system (items 9 and 8 page 8).
- To obtain a regular cut, it is important to check if the front and rear tyre pressures correspond to the pressures recommended (front pressure: 1,2 bars - rear pressure: 1,2 bars).

EMPTYING THE COLLECTION SYSTEM



Do not empty the box on slopes of more than 8°.

Emptying is done from the driver's seat.

- Move the left-hand control lever backwards (item 8 page 8).
- Hold this position until the grassbox is at the height required (1,8m max). Then move the right-hand control lever backwards (item 9 page 8) until the rear part of the grassbox is completely open.
- Do this in reverse order to return the collection system in the collection position.

NOTE: Only drive or move the machine with the grassbox raised at extremely low speeds, whether forward or in reverse. Avoid accelerating and changes of direction (FW – REV), as well as sharp braking.



CAUTION! In the event of a leak, hydraulic fluid can have sufficient force to penetrate the skin and cause serious injury. Medical assistance must be sought immediately.

7•13 DRIVING ON SLOPES

- The machine must only be used on terrain with a slopes of less than 17,6 % (10°).
- Always respect the mowing scheme shown in picture 1.
- To drive on a slope with a maximum of safety, follow the indications below:
 - Avoid sudden starts.
 - Always drive at low speed on slopes, to avoid to lose control of the mower.
 - When beginning to move the machine up or down a slope: release the parking brake and immediately set the mower in motion using the drive pedals.
 - Be particularly careful when turning round on a slope. Prepare yourself for the change of direction and reduce speed in order to avoid losing control of the mower.
 - Be careful of holes, bumps and other hidden hazards.
 - As soon as the machine stops, put parking brake on.

7•14 LIGHTS

The sidelights, dipped headlights and driving lights are controlled by the rotary switch (item 22 page 9).

- Your machine is equipped with the MXBUF lighting kit (picture 46) and may therefore be approved in different countries. Contact your dealer for details of how to proceed.
- Check that all the lights are working before driving on public roads.
- The lighting supplied on your ride-on mower is only intended for movements. It is not suitable for night working, unless you work in good artificial lighting.

7•15 PARKING BRAKE

To put on the parking brake, pull the lever (item 10 page 8) backwards. To release it, first unlock the mechanism using the manoeuvre button (a).

8• ACCESSORIES IN OPTION

Ensure you follow the mounting instructions supplied with each option.

REMARK: if you do not have the skills or equipment necessary to install your options yourself, please contact your dealer.

MU100D: MULCHING KIT (*BPHP2, BPHPX2, BVHP, BVHPX models*)

MU124P: MULCHING KIT (*HVHP, HVHPX models*)

- Mulching allows you to mow without collecting grass, leaving the cut grass on the ground instead (picture 40).

MDD100

Mowing with a deflector (picture 41)

- The deflector must be fitted if you wish to work without the grass collection system, otherwise the cutting system cannot be started.
- A first pass at reduced speed and at maximum cutting height will clear the area to be mowed. For a nice finish, do a second pass at the final cutting height.
- The MDD100 deflector allows the grass to be evenly spread across the width of the machine.

MRD100 : TOWBAR

There must be a tow ball fitted to the towbar (picture 42). Buy a ball through your retailer.

- Do not use the mower on slopes terrain with a trailer.
- Maximum authorised mass: 450 kg (trailer + contents).
- Maximum authorised towbar load: 50 kg.
- Maximum tractive force: 100 kg.



CAUTION! Ensure that the force applied to the towbar is always directed downwards. Pay attention when pulling loads. Avoid making tight turns.

- Assemble the locking pin (a) delivered with the tow bar.

M0102: SUSPENSION FOR DRIVER'S SEAT

- The comfort of the seat can be improved using this suspension. It can be adjusted according to the driver's weight.

MV103: SNOW PLOUGH

- This snow plough (picture 43), with a working width of 1,2 mtr, is fitted with a scraper strip.

MET: SPREADER

- This option allows spreading of salt, sand or fertilisers (picture 44).

MSD103: SUPPORT FOR FRONT ACCESSORIES

- This is an interface necessary for the mounting of the accessories (picture 45).

MXBUF: ROAD APPROVAL KIT (picture 46)

MND100: CHAIN KIT

- Snow chain kit for the rear wheels.

MAC: ARMREST

ML103 : CONTROL LEVER (picture 47)

MM103 : MOSS REMOVER (picture 48)

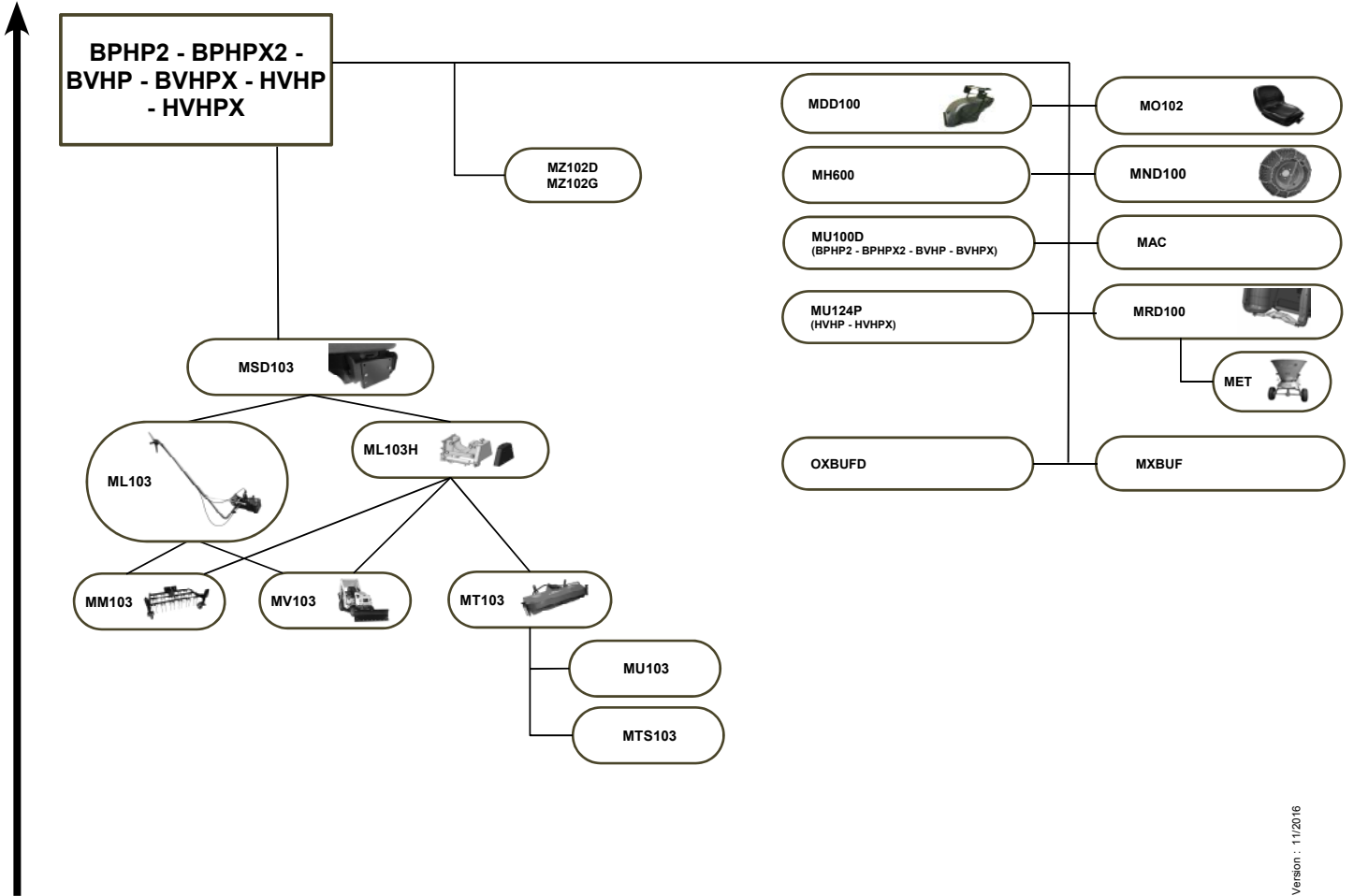
ML103H : FRONT ACCESSORIES PARALLELOGRAM (picture 49)

MT103 : SWEEPER (picture 50)

MU103 : FRONT SWEEPER COLLECTINGBOX

MTS103 : FRONT SWEEPER SIDE BROOM

8• ACCESSORIES IN OPTION



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9• ASSEMBLY - DISASSEMBLY - ACCESS TO COMPONENTS

9•1 ACCESS TO THE ENGINE

- You access the engine by tipping up the white engine cover (picture 9). The cover stays open thanks to a gas cylinder (a).
- On *HVHP, HVHXP, BVHP and BVHPX models*, you must first tip and lock it in the notches provided for this purpose the oil radiator (b picture 9).
- The second cover called the intake duct also tips forward (c picture 9). The intake circuit is attached by clips and is to be disconnected only for easier access to the motor for maintenance work.

RISK OF BURNING:



Take great care. Do not touch the exhaust pipe, radiator, cylinders or valve cover when they are still very hot. Let them cool down. Wear gloves.



The second engine bonnet allows one hand, filtering of the external air and, on the other, optimum cooling of the radiator and the engine. Always ensure that you put all the bonnets + filter back in place before restarting your engine.

9•2 ACCESS TO PARTS UNDERNEATH THE CENTRAL COVER

Pull the seat lock control rod (a picture 10).

Tip the seat forwards. Press the two retaining springs (a picture 11) and tip the central cover back. Prop the cover open with the retaining rod (d picture 12).

9•2•1 ACCESS TO THE FUSE BOX

- The fuses box is situated under the central cover of the machine (picture 13).
- It is fitted with 4 fuses protected by a cover.

BPHP2 - BPHPX2

- Fuse 1: 20 A Pre-heating / starting
- Fuse 2: 20 A Pre-heating / starting
- Fuse 3: 20 A Lighting
- Fuse 4: 20 A Safety features / Comfort functions

HVHP - HVHPX - BVHP - BVHPX

- Fuse 1 : 20 A Alternator
- Fuse 2 : 20 A Blade clutch + Cabin
- Fuse 3 : 20 A Safety devices
- Fuse 4 : 20 A Lighting



Always replace a fuse by another with an identical value.

9•2•2 ACCESS TO THE DISTRIBUTOR CONTROLLING THE ANCILLARY FUNCTIONS

- The hydraulic distributor is situated underneath the central cover on the right (picture 14).

9•2•3 ACCESS TO THE HYDRAULIC CIRCUIT FILTER

- The hydraulic circuit filter is situated under the central cover (white) to the right of the oil tank (a picture 14a).

9•2•4 ACCESS TO THE HYDRAULIC TANK AIR FILTER

- The air filter is screwed onto the hydraulic tank, which is situated under the central cover (b picture 12).

9•2•5 ACCESS TO THE BY-PASS

- Under the seat is the control for the drive transmission pump, a red hex screw (picture 15).

9•3 DISMANTLING THE COLLECTION SYSTEM

For the rear part, see paragraph 7•11 page 20.

DISMANTLING THE FRONT PART

Please contact your dealer.

9•4 CUTTING SYSTEM

9•4•1 DISMANTLING / RE-MOUNTING

- Park your machine on a flat surface.
- Put on the parking brake.
- Stop the engine and remove the ignition key.
- Protect your hands by wearing work gloves.
- Place the cutting system on the lowest position.
- Remove the side covers on either side of the machine.
- Remove the belt connecting the cutting system to the engine, loosening the belt at the tensioner (a picture 16).
- Place the cutting height lever on position 6.
- Remove the two compensating springs from the cutting unit (picture 17).
- Bring the cutting unit to its lowest position.
- Remove the sealing plate above the ejection channel by unscrewing the nut using a size 13 socket (b picture 16).
- Remove the 4 ringed pins and the washers from the hinges.
- Unhook the cutting unit from the rear hinge, then the front hinges.
- Remove the housing from the machine.



CAUTION! If you wish to move the machine without its cutting unit, you must check that the front hinge still in place is not touching the ground. If you wish to use the machine without its cutting unit, remove this front bracket.

RE-MOUNTING THE CUTTING UNIT

- Reverse the dismantling operations.

9•4•2 CHANGING THE CUTTING UNIT

- To change the blades, ideally dismantle the cutting unit.



CAUTION! Before doing any work underneath the cutting unit, stop the engine and remove the ignition key. Protect your hands by wearing work gloves.

- Support the blade, then unscrew the central screw (picture 18).



CAUTION! The central screw of the right-hand blade has a left-hand thread. The central screw of the left-hand blade has a right-hand thread.

9• ASSEMBLY - DISASSEMBLY - ACCESS TO COMPONENTS



CAUTION! Beware: the turning of one blade causes the turning of the other.

- The lock washers must comply with standard DIN 128, which applies to right-hand threaded screws as well as left-hand threaded screws. We recommend that you use only ETESIA original washers (ref. 71052).
- Each time the blade is dismantled, replace the lock washer situated underneath the head of the blade screw, as well as the shearing screws (a picture 18).
- Before re-mounting the blades, check the condition of the couplings, keys (one key per coupling), shearing screws and retaining washer.
- Before re-mounting the blade coupling, do not forget to grease the end of the shaft.
- Re-mount the blades positioning them at 90° one to the other (picture 19).
- Tighten the blade screws (50 Nm).
- Tighten the shearing screws (8 Nm).
- So that you do not mix up the blades when re-mounting them, they are marked as follows. R for the right-hand blade, L for the left-hand blade. «Left» and «Right» are to be understood with the machine facing forward.
- Mount the blades with the cutting edge in the direction of the ejection channel.

9•4•3 REPLACING THE SHEARING SCREWS

- The shearbolts (a picture 18) make the connection between the blade and the blade coupling. In the event of a violent impact, the instant shearing of these screws protects the whole transmission system.
- Use only ETESIA original shearbolts.
- Tighten the screws to a torque of 8 Nm.
- If you do not possess the tools or skills necessary, please contact your dealer.

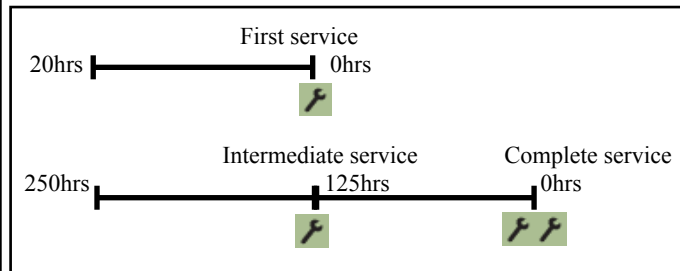
10• MAINTENANCE

Your mower is fitted with a maintenance counter (page 9). This is a useful tool that will inform you on the servicing cycles of your mower. It displays the hours of use remaining until the next service is due. A service is indicated by the flashing of the hours and:

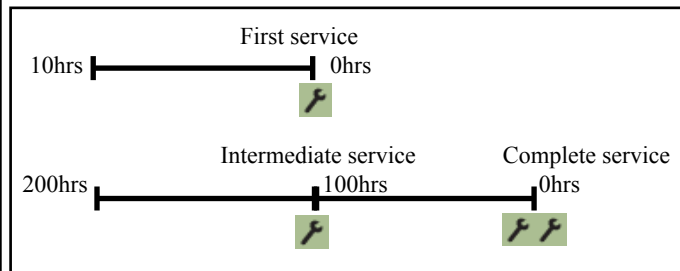
- one spanner for the 1st service or an intermediate service.
- 2 spanners for a complete service.

Each time the engine is switched on.

BPHP2 - BPHPX2



HVHP - HVHPX - BVHP - BVHPX



REMARKS:

- If you do not have the tools or skills necessary, please contact your dealer.
- It is strongly recommended that you strictly respect the service frequencies.

After re-initialising at 0hrs, the spanner(s) stop flashing and the counter displays 250hrs for diesel engine mowers and 200hrs for petrol engine mowers.

After re-initialising at 125hrs for diesel engine mowers and 100hrs for petrol engine mowers, spanner(s) stop flashing and the countdown continues.

RE-INITIALIZATION: after each service, remove the connector (a picture 20) and connect the other connector (b) for a few seconds. To do this, unscrew the plastic nuts (c) on the comfort counter and take it out through the top of the console.



CAUTION: If the intermediate service has not been done before the counter displays 62.5 hrs, do the complete service immediately. In this case after re-initialization, the counter will return to 250 hrs for diesel engine mowers and 200h for petrol engine mowers. After re-initialization, reconnect connector (a picture 20). If you do not, the indicator lights and counters will no longer work.

LIFTING YOUR MACHINE



If you need to carry out some work underneath the machine that requires raising it off the ground, we recommend the use of a lift table able to take the weight of your machine.

10•1 ENGINE MAINTENANCE

10•1•1 CHECK THE ENGINE OIL LEVEL (each time you use the machine)

- Place the mower on a horizontal surface.
- Open the engine hood and the intake pipe (paragraph 9•1 - page 23).
- Clean around the dipstick opening.
- Remove the dipstick: a picture 21a for *Perkins motor* - a picture 21b for *Briggs & Stratton motor*.
- The oil level must be kept between [MINI] and [MAXI] at all times.

If necessary, top up with diesel engine oil 15W40 (*BPHP2, BPHPX2*) ref. ETESIA 29591 (2l can), or with 10W40 grade oil (*HVHP, HVHPX, BVHP and BVHPX*) ref. ETESIA 38383 (2l can). Do not fill above the [MAXI].

10•1•2 ENGINE OIL CHANGE

BPHP2 AND BPHPX2

After the initial 20-hour service, the oil must be changed every 500 hours or at least once a year.

HVHP, HVHPX, BVHP AND BVHPX

After the initial 10-hour service, the oil must be changed every 100 hours or at least once a year.

- Run the engine to heat up the oil.
- Place the machine on a horizontal surface.
- Stop the engine, remove the ignition key. Wear gloves.
- Place a sufficiently large recipient underneath the engine drain screw (a picture 22).
- Unscrew the screw or the drain tap and let the used oil run out into the recipient.
- Clean and screw back the screw or the drain tap.
- Clean around the filler hole to avoid any impurities getting into the engine.
- Slowly pour in the new fuel engine oil (capacity: see technical characteristics) - For models *BPHP2 and BPHPX2* Etesia recommends SHELL Rimula X 15W40 (ref. 29591), and for *HVHP, HVHPX, BVHP and BVHPX* ETESIA recommends 10W40 grade oil (ref. 38383).
- Check the oil level using the dipstick. The level must reach the [MAXI] mark without going over it.



CAUTION! Take great care when emptying hot oil. Never touch the exhaust pipe, the cylinders or the rocker cover as you could burn yourself.

- Check that the drain screw is tight and there are no leaks and close the engine cover.
- Take the used oil to an approved collection point.

10•1•3 CHANGE THE ENGINE OIL FILTER

- Change filters during each engine oil change.

PERKINS MOTOR

- Open the engine hood, remove the engine cooling radiator inspection trap and open the right hand side cover and the suction duct (a picture 23a) for access to the filter (b).

10• MAINTENANCE

- Before putting in a new filter, oil the joint with some clean oil.
- Screw the new oil filter in by hand until it is tight. Then add ½ to ¾ of a turn.
- Start the engine and let it run.
- Stop the engine and check there are no leaks. Check the oil level and top up if necessary.

BRIGGS & STRATON MOTOR

- Open the engine hood, tilt and lock the oil radiator remove the side engine hood and the intake duct to get to the filter (a picture 23b).
- Before fitting a new filter, oil the seal with clean oil.
- Screw the new filter in by hand until it is tight. Then turn an additional ½ to ¾ of a turn.
- Start the engine and let it run.
- Turn off the engine and check it for tightness. Check the oil level and top up if necessary.

10•1•4 AIR FILTER

BPHP2 - BPHPX2 (picture 24a)

It is situated under the chassis on the right-hand side near the front wheel. Clean the air filter every 250 hours, and more often if the machine is used in very dusty conditions.

- Unscrew the cover (a) a quarter turn.
- Remove and tap the cartridge (b) on a flat surface to knock out the dust.
- If the cartridge is very dirty, pass the blower through it ensuring the air goes through the filter cartridge in the opposite direction to the normal flow of air to be filtered (inside to outside). Move the compressed air nozzle from top to bottom, whilst turning the cartridge. Hold the nozzle at least 3 cm from the folded paper. So as not to damage the filter cartridge, the air pressure must not exceed 689 Kpa (6.89 bars).
- Replace the cartridge every 1000 hours or at least once a year.



CAUTION! Do not wash the paper part with solvent or petrol. Do not oil.

HVHP - HVHPX - BVHP - BVHPX (picture 24b)

Clean the air filter every 100 hours and more frequently when the dust level is high.

- Remove the lid.
- Remove the wing nut [1] and remove the entire filter.
- Foam element [3] (pre-filter): wash it with detergent and water and dry it thoroughly. Dip it briefly in clean oil and press it out to eliminate any excess oil.
- Paper filter [2]: tap to detach any dust.
- Replace every 400 hours or at the most once each year.



CAUTION! Do not wash the paper element in solvent or petrol. Do not oil.

10•1•5 DIESEL FILTER

PERKINS ENGINE (picture 25a)

- If your engine lacks power or is running irregularly, this may be due to dirt in the diesel filter. This must therefore be changed.
- It is, however, recommended that these filters be replaced every 250 hours or at least once a year, even if they still appear to be in good condition.

- Types of pollutants:
 - Detritus contained in the diesel
 - External elements (dust, grass, water, ...)
 - Condensation water

- Your engine has a strainer prefilter. The water that builds up in the prefilter must be evacuated every day by a ¼ rotation of the screw at the bottom of the filter. Recover the liquid flowing out of the prefilter and deposit it in a recovery station. Replace the prefilter cartridge every 250 hours.

BRIGGS & STRATON MOTOR (a picture 25b)

- If your engine lacks power or runs irregularly, it could be due to the petrol filter being fouled. It is then necessary to change it.
- However, it is recommended to replace this filter every 400 hours or at least once each year, even if it seems to be in serviceable condition.

10•1•6 COOLING SYSTEM

BPHP2 - BPHPX2

The engine is cooled using cooling liquid. When the engine is cold, check the cooling liquid level regularly (picture 26).

- Change the cooling liquid every 1000 hours or once every two years to avoid the liquid oxidising.
- Before each start, check that the grid of the engine cover is not obstructed by grass or other detritus (a picture 27). Clean it if necessary.
- Clean regularly the air pre-filter attached to the intake pipe (picture 28).
- Clean regularly the inspection trap grille providing access to the radiator (c picture 29).
- Remove the radiator inspection trap by undoing the 4 quarter turn screws (a picture 29) using the ignition keyring. Unlock the pre-grille of the radiator (b). By sliding it, take the pre-grille out of the radiator (c) and clean it by tapping it. Check that the radiator is clean.



CAUTION! Remove any grass or waste and reassemble parts carefully to avoid the overheating of the engine by fouling the radiator.

HVHP - HVHPX - BVHP - BVHPX

- Before each start-up, check that the rotary strainer of the air inlet is not obstructed by grass or waste. Clean it if necessary (a picture 30).
- Check the condition of the cooling fins after 400 hours or once each year. To do this, remove the engine casing.
- Clean the oil cooler at regular intervals (b).

10•1•7 SPARK PLUG (HVHP - HVHPX - BVHP - BVHPX models) (picture 31)

- Torque load : 20 nm



CAUTION! Replace the spark plugs only when the engine has cooled down entirely.

- Clean or replace the spark plugs after every 100 hours of operation or once each year.
- Disconnect the spark plug cable and remove the spark plug.

10• MAINTENANCE

- Clean the electrodes (a) by rubbing them with a wire brush to remove any deposits of scale.
- Check that the porcelain has not cracked and that the electrode is not excessively worn. If necessary, replace the spark plug.
- Check the electrode gap (b) and adjust if necessary. The gap must be between 0.65 and 0.76 mm. To set the gap, adjust the outer electrode only: use spark plug adjusting feelers.
- Put the spark plug in place and tighten to a torque load of 20 nm.
- Then reconnect the spark plug cable.

10•1•8 CATALYSER (HVHP - HVHPX - BVHP - BVHPX models)

- The *HVHP*, *HVHPX*, *BVHP* and *BVHPX* exhaust silencer has a catalyser.
- To preserve performance in reducing pollutant emissions, replace the exhaust silencer after between 300 and 400 hours of operation.

10•2 MAINTENANCE OF THE HYDRAULIC TRANSMISSION

- For all work on the transmission system, stop the engine and remove the ignition key. Use the circuit-breaker to turn off the electric supply. Close the hand brake.
- Check regularly, before each use, the level of the oil contained in the hydraulic tank situated under the central cover.
- Before each use of the machine, check the forward/backward pedal system is working properly. The pedals must come back to the neutral (starting) position when they are released.

10•2•1 CHECK THE OIL LEVEL IN THE HYDRAULIC TANK (BEFORE EACH USE)

- Stop the engine before you start the check.
- Park the machine on a horizontal surface.
- Open the engine cover (paragraph 9•2 page 23).

The oil level must be kept between the [MINI] and [MAXI] marks on the tank side at all times (a picture 12).

REMARK: If, after you have topped up with oil, the level drops again, have the circuit checked by your dealer.

- If necessary, top up with new HV46 quality hydraulic oil. ETESIA recommends SHELL Tellus T46, ETESIA ref. 29592 (2 litre can).
- Topping up, like filling, can only be done through the male fitting (c picture 12).
- Use a filtering unit with a 25 µm filter ref. 29977.
- Connect the female fitting of the filtering unit onto the male fitting on the hydraulic tank after removing the protective cover and cleaning the male fitting on the tank.
- Remove the air filter cartridge to avoid any oil returns (b picture 12).
- Ensure that the filtering unit on/off switch is on OFF.
- Connect the wiring of the filtering unit, first the positive terminal, then the negative terminal, to the machine's battery.
- Dip the suction pipe (with no fitting on the end) into the oil to be transferred.
- Switch on the unit.

- As soon as the level required is reached:
 - stop the unit
 - disconnect the unit from the battery (negative terminal first)
 - disconnect the hydraulic hose and put back the air filter cartridge.

10•2•2 REPLACEMENT OF THE HYDRAULIC OIL FILTER (picture 14a)

BPHP2 - BPHPX2

After initial 20 hour servicing, replacement is necessary every 250 hours.

HVHP - HVHPX - BVHP - BVHPX

After initial 10 hour servicing, replacement is necessary every 200 hours.

- Unscrew the cartridge in the anti-clock sense.
- Before fitting the new filter, oil its seal with clean oil.
- Screw in the new cartridge by hand (degree of filtration 25 µm absolute) (reference ETESIA 29490) until the seal is tight. Then turn add another 1/2 to 3/4 turn.
- Start the engine and leave to run for a few minutes.
- Stop the engine and check there are no leaks from the cartridge and check the oil level. Top up if necessary.

10•2•3 REPLACEMENT OF THE HYDRAULIC TANK AIR FILTER

BPHP2 - BPHPX2

Replacement is necessary every 250 hours.

HVHP - HVHPX - BVHP - BVHPX

Replacement is necessary every 200 hours.

- The hydraulic tank air filter is accessible by opening the central cover (b picture 12).
- Clean the edge and base of the filter.
- Unscrew it anticlockwise.
- Screw back in and tighten by hand the new 10 µm filter (ETESIA ref. 38562).

10•2•4 EMPTYING THE HYDRAULIC TANK (every 2500 hours)



CAUTION! This operation must only be done if you have a filter ring unit fitted with a 25 µm filter cartridge, ref. 29977.

If you do not have the tools or the skills necessary, please contact your dealer.

DRAIN THE TANK

- Remove the cutter housing (paragraph 9•4 page 23).
- Place a recipient with a capacity of at least 25 litres under the tank.
- Using an Allen key, unscrew the plug situated on the bottom of the tank.
- Leave to drain thoroughly before screwing the plug back in.
- Change the tank's air and oil filters (10•2•2 and 10•2•3).

Fill the tank with HV46 type oil using the filtering unit (paragraph 10•2•1). Etesia recommends SHELL Tellus T 46, ref. 29592 (2 litre can).

10• MAINTENANCE



CAUTION! In the event of a leak, hydraulic fluid can have sufficient force to penetrate the skin and cause serious injury. Medical assistance must be required immediately.

10•2•5 CLEANING OF HYDRAULIC COMPONENTS

To assist oil cooling, every 100 or 125 hours check the cleanliness of the hydraulic components.

- Remove any grass or mowing waste that has built up under the central hood.
- Put the collecting bin in the emptying position at maximum height.
- Use the locking system to lock it in this position (picture 32).

HVHP - HVHPX - BVHP - BVHPX : Clean out the oil radiator with compressed air (b picture 30).

- Remove any grass or mowing waste that has built up under the hydraulic motors (a picture 33).

10•3 BATTERY MAINTENANCE

10•3•1 MAINTENANCE OF THE 12V BATTERY

- The 12V battery is underneath the white engine cover (b picture 14a).



CAUTION! If for any reason, the battery must be disconnected, always disconnect the negative terminal first, then the positive terminal. In the event of a spillage when filling, rinse the parts concerned thoroughly, so as to avoid corrosion.

REMOVING THE BATTERY

- Remove the battery terminals with a 13mm spanner (c picture 14a); negative terminal first.
- Remove the lug that holds the battery using a 13mm socket spanner.
- Lift and take out the battery.
- This lead battery requires a minimum of maintenance. Check the electrolyte level every 100 hours for the **HVHP, HVHPX and BVHPX models** and every 125 hours for the other models. The level of the electrolyte in the different cells must be just above the elements and can be checked without removing the battery after opening the central cover.
- If the electrolyte level of a charged battery drops, add distilled water.



Never overflow a battery. Never add any acid. Wear the necessary protective equipment when topping up a battery (gloves, safety goggles...).

- Check that the battery terminals are not oxidised. If they are, clean them and coat them with special battery grease.

10•3•2 CHARGING THE BATTERY

- Remove the battery from the mower first disconnecting the negative terminal and then the positive terminal.
- Check the electrolyte level. If necessary, top up with distilled water.
- Connect the battery to the charger.
 - Charge voltage: 12 V
 - Max. charge current: 3 A per hour

- Charging time: up to 20 hours charge for a completely empty battery.

- A lead battery gives off an explosive, gaseous mixture during charging. Avoid contact with any flame, cigarette or spark.
- Only charge the battery in a sufficiently ventilated place.
- The battery contains sulphuric acid, which is very dangerous and can cause serious injury if it comes into contact with the skin.
- This is why we recommend that great care be taken.



CAUTION! If acid comes into contact with the skin or eyes, rinse thoroughly with water. If necessary, contact a doctor immediately. The battery and the acid must be kept out of the reach of children.



CAUTION! Measures taken for the application of Directive 2006/66/EC on batteries and accumulators containing certain dangerous substances and their disposal.

DISPOSAL OF BATTERIES

Batteries contain dangerous substances and may on no account be disposed of in the environment. They are subject to very strict rules regarding their disposal. For the disposal of batteries marked ETESIA, we participate in the schemes in place in the countries where the machine is sold.



CAUTION! A battery kept uncharged will not charge correctly later on and will not be covered by the warranty.

10•4 TYRE MAINTENANCE

- Always respect the tyre pressures recommended. Pressures other than those recommended can adversely affect driving. This may even lead to a loss of control of the mower.

- Front tyre pressure: 1.2 bars
- Rear tyre pressure: 1.2 bars

DISPOSAL OF USED TYRES

It is forbidden to dispose of tyres in the environment or to burn them in the open air. Our sales network is aware of the obligation to take back the tyres of ETESIA ride-on mowers free of charge.

10•5 MAINTENANCE OF THE CUTTING UNIT (BLADES)



CAUTION! Before doing any work underneath the cutting unit, stop the engine and remove the ignition key. Also protect your hands by wearing work gloves.

- Before each use of the mower, check the condition of the cutting components (for any damage or wear): 1: normal, 2: buckled, 3 worn, 4: split (picture 34).
- You must change your blade in situations 2, 3 and 4. A damaged blade can be very dangerous if a piece breaks off and is thrown out of the cutter housing.
- Change any worn or damaged blade immediately.
- After an impact the blade must be changed.

10• MAINTENANCE

- Micro-cracks caused by an impact can lead to the breakage of the blade at a later stage if it is not replaced.
- A blunt blade showing no other signs of damage can be sharpened again. The sharpening limit marked on the end of the blade must not be exceeded.
- After sharpening, the blade must be rebalanced to avoid vibrations.
- Also check that:
 - the cutting unit coupling and body are in perfect condition.
 - that the safety washer and cutting unit are in perfect condition.
- If significant damage is observed on the cutter housing, a more detailed examination of the complete system by your dealer will be necessary.

10•6 CLEANING

- It is not recommended to use high pressure washers. However, if you use one, ensure that you do not spray water on engine parts such as the carburettor, air filter, ignition, exhaust pipe, battery and electrical parts. Do not direct the jet at the roller bearings (blade bearings or wheel roller bearings) and hydraulic parts.
- It is recommended that you run the engine and all the transmission parts after cleaning, in order to eliminate any remaining water.

CLEANING THE CUTTER UNIT

- After each use, clean the cutter housing carefully, in particular the inside the ejection channel.
- Cleaning of the cutting unit using the hosepipe connections. The cutter housing is equipped on the left and right-hand sides with ½ couplings allowing you to connect two hosepipe fittings (picture 35).
- **To clean the housing, proceed as follows:**
 - Connect the hosepipe to the cutter housing. This can also be done using a Y-branch so that the two sides are connected at the same time.
 - Turn the tap on.
 - Sit on the seat, start the engine and activate the cutting unit.
 - After about 3 minutes, the cutting unit will be clean.
- **Cleaning the cutting unit ejection channel:**
 - Clear access to the ejection channel by putting the collecting bin in the maximum top emptying position. Use the locking system to lock it in this position (picture 32).

- Use a jet of water to clean out the ejection channel.
- After cleaning, put back the grass collection system, sit on the seat and start the cutter unit again, for a few minutes.

10•7 TIGHTEN THE BLADE TRANSMISSION TOOTHED BELT

The position of the blades as 90° from one another (picture 19) is assured by a toothed belt.

A new toothed belt needs to be tightened up after 10 hours of operation or at least 3 months after assembly if the mower has not been used.

The condition and tension of the belt must then be checked every 100 or 125 hours. Contact your dealer to re-tension the toothed belt.

10•8 MAINTENANCE OF THE MECHANICAL TRANSMISSION (BPHP2 - BPHPX2)

The mechanical transmission fixed to the motor must be drained after 20 hours and then every 250 hours.

- Place the machine on a flat surface, stop the motor, remove the ignition key, apply the hand brake, wear gloves.
- Tip over the motor hood (see paragraph 9•1 page 23), then remove the side housings of the motor.
- Place a sufficiently large container under the drain hole (a picture 36).
- Loosen the screw and let the oil drain into the container.
- Clean and then re-tighten the screw.
- Clean the plug (b picture 36) and ensure that no dirt gets into the tank before tightening the plug.
- Slowly add 0.5 l of new oil. Etesia recommends SHELL OMALA S4GX220 ref. 29590 (can of 1l).



Do not fill the tank. It does not indicate the transmission oil level.

The recommended oil level corresponds to 0.5 l of new oil after complete draining of the transmission. This level is flush with the opening used to attach the pipe (c picture 36).

11• PROLONGED STORAGE - WINTER STORAGE

WINTER STORAGE

- 1• Clean the machine thoroughly and in particular the cutting deck.
Grease the moving parts.
- 2• Remove the battery, disconnecting the negative pole first.
- 3• Charge the battery: see paragraph 10•3•2, page 28.
- 4• Store the battery in a cool, dry place, protected from the frost.
- 5• Recharge the battery every six months.



The battery must be kept out of the reach of children.

Contact your dealer for the following adjustments or maintenance :

- Adjustment of the parking brake.
- Adjustment of the blade clutch and brake.
- Adjustment of the alignment of the cutting deck.
- Adjustment of the engine.
- Belts to be changed if necessary.
- Changing of any parts or repairs which require dismantling and which are not mentioned in these instructions for use.
- Any special cases.

12• TROUBLESHOOTING - ANCHORING

12•1 MOVING THE MOWER WHEN THE ENGINE IS OFF

- The by-pass allows the mower to be moved without using the engine.
- The red screw that activates the by-pass is accessible by lifting the seat.
- Tighten the screw hard = transmission engaged.
- Unscrew the screw full turns = transmission disengaged.
- Never attempt to drive the machine when the by-pass is open (disengaged position).

12•2 TOWING OF THE MACHINE IN THE EVENT OF A BREAKDOWN

- Place the transmission in the disengaged position.
- Use only an approved towbar to be fixed onto the towing hook situated at the front of the machine (a picture 37).
- Do not use any other towing points.



CAUTION! The disengaged position must only be used over short distances and at a low speed (< 5 kmph). After moving the machine, do not forget to put the transmission on the engaged position once again.

- If it is necessary to move the broken-down machine over a considerable distance, please use an adequate means of transport (trailer, truck....).

TRANSPORT



Mowers can cause severe injuries through being crushed under their weight. Be extremely careful during loading or unloading for transport by vehicle or trailer.

If the mower is transported on a trailer or truck:

- Secure your mower using straps passed through the side supports and the towing hook (picture 38).
- Put on the parking brake.
- Block the wheels with chocks.

- Tip the seat forward until the holding system blocks it.

12•3 CHANGING THE WHEELS

- If a wheel needs to be removed, it must be done on firm, flat ground.
- Do not work on or under the mower if it has been raised off the ground on by any temporary method or in conditions of insufficient safety.
- If you do not possess the tools or skills necessary, contact your dealer.

• Proceed as follows to remove the wheels:

- Put on the parking brake.
- Immobilise the machine using wheel chocks.

FRONT WHEELS (picture 39)

- Stop the engine and remove the ignition key.
- Remove the cap (1).
- Place a jack under the front axle.
- Lift until the wheel lifts off the ground.
- Remove the split pin (2) and unscrew the nut (3).
- The wheel can now be removed from its spindle.

REAR WHEELS

- Place the grassbox in the highest emptying position.
- Lock in this position using the locking system (picture 32).
- Stop the engine and remove the ignition key.
- Loosen the 5 screws holding the wheel on its hub.
- Take the jack support ref. 35495 (provided in the toolbox) (b picture 33) and place on the side where the wheel is to be taken off (b picture 33).
- Unscrew the fastening screws.

• To put back the wheel, proceed in reverse order:

- Check the screws are tight (10 daNm).
- Check the tyre pressures
 - front : 1.2 bars - rear : 1.2 bars

13• MALFUNCTIONS AND THEIR REMEDIES

Consult the table below if your mower has a problem. If the problem encountered is not included in the table below or if the remedy proposed does not solve the problem, contact your dealer, who has the skills and equipment necessary to deal with it.

MALFUNCTION	PROBABLE CAUSES	REMEDIES
No lights come on on the dashboard	Fuse n°3 (section 9•2•1)	Replace the fuse
	Faulty battery connection	Connect the battery correctly (section 10•3)
All the lights come on, but the starter does not run	The safety conditions for starting are not met	See section 7•2
All the lights come on, the engine does not start	Not enough fuel	Fill up with fuel
	Insufficient battery charge	Recharge the battery (section 10•3•2)
		Check the courant of charge
The engine is running, but stalls when the operator presses on the drive pedal	The safety conditions for movement are not met	See section 7•2
The cutting system does not engage	The safety conditions for mowing are not met	See section 7•2
The battery charge warning light stays on after the engine starts	Faulty battery charge circuit	Contact your dealer
The warning buzzer and the engine temperature warning light come on	The intermediate engine cover or radiator grilles are obstructed	Clean the radiator grilles (section 10•1•6)
	Lack of coolant	Top up and check for escapes
The hydraulic oil temperature comes on	Temperature of the hydraulic oil too high	Stop the engine and contact your dealer
The engine oil pressure warning light is on (after the engine starts)	Insufficient oil level	Top up with oil
The light authorising the movement of the machine is off	Safety contactors	See section 7•2
The light authorising the starting of the blades is off	Safety contactors	See section 7•2

14• MAINTENANCE SCHEDULE

BPHP2 - BPHPX2

IMPORTANT : The warranty will only apply if your mower has had the service carried out by your dealer, after the first 20 hours.

After the first 10 hours or before starting, if the belt has been installed for more than 3 months, have your dealer tension the blade transmission toothed belt.

	Parts	Before each use	After the first 20 hours	Every 125 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 2500 hours
CHECK	Engine oil level	●	HAVE THE SERVICE DONE BY YOUR DEALER AFTER THE FIRST 20 HOURS					
	Hydraulic oil level	●						
	Coolant level	●						
	Control parts	●						
	Battery level			Top up if necessary				
	Cutting unit	Condition & tightness, sharpen or change if necessary						
	Blade transmission toothed belt			Conditions and tension				
	Blade transmission Vee-belt			●				
	Alternator belt and feed transmission						●	
	Electromagnetic clutch			Breaking time				
	Wheels	Check pressure						
	Steering			Tightness of the ball joints				
	Electrical circuit	Correct functioning of the safety devices						
	Transmission	Correct functioning of pedals						
CLEAN	Engine hood grille and inspection trap	Several times during each use						
	Removal radiator grille	Several times during each use						
	Radiator and pre-filter	●						
	Air pre-filter	●						
	Engine air filter		●					
	Hydraulic components		●					
CHANGE	Training of prefilter /fuel water							
	Engine oil				●			
	Hydraulic oil						●	
	Angular gear oil			●				
	Diesel tank						or once a year	
	Cooling liquid						or every 2 years	

14• MAINTENANCE SCHEDULE

BPHP2 - BPHPX2

IMPORTANT : The warranty will only apply if your mower has had the service carried out by your dealer, after the first 20 hours.

After the first 10 hours or before starting, if the toothed belt has been installed for more than 3 months, have your dealer tension the blade transmission toothed belt.

	Parts	Before each use	After the first 20 hours	Every 125 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 2500 hours	
REPLACE	Engine air filter		HAVE THE SERVICE DONE BY YOUR DEALER AFTER THE FIRST 20 HOURS				or once a year		
	Air filter 10µm hydraulic oil tank				More if dusty conditions				
	Engine oil filter 20µm					•			
	Hydraulic oil filter 25µm					•			
	Diesel filter 2 to 3 µm					•			
	Diesel oil prefilter					•			
GREASE	Axle - 3 grease nipples				•				
	Blade coupling	Each time dismantled							
	Raising cylinder				•				
	Ball joints of rear part of grassbox - 2 areas with a brush				•				
	Scraper connecting rod wheels (brush on top-emptying model)				•				

14• MAINTENANCE SCHEDULE

HVHP - HVHPX - BVHP - BVHPX

IMPORTANT : The warranty will only apply if your mower has had the service carried out by your dealer, after the first 10 hours.

After the first 10 hours or before starting, if the toothed belt has been installed for more than 3 months, have your dealer tension the blade transmission toothed belt.

	Parts	Before each use	After the first 10 hours	Every 100 hours	Every 200 hours	Every 400 hours	Every 1000 hours	Every 2500 hours
CHECK	Engine oil level	●	HAVE THE SERVICE DONE BY YOUR DEALER AFTER THE FIRST 10 HOURS					
	Hydraulic oil level	●						
	Control parts	●						
	Battery level			Top up if necessary				
	Cutting unit	Condition & tightness, sharpen or change if necessary						
	Blade transmission toothed belt			Conditions and tension				
	Blade transmission Vee-belt			●				
	Ignition spark plug			●				
	Feed transmission belt			●				
	Electromagnetic clutch			Breaking time				
	Wheels	Check pressure						
	Steering			Tightness of the ball joints				
	Electrical circuit	Correct functioning of the safety devices						
	Transmission	Correct functioning of pedals						
CLEAN	Engine hood grille	Several times during each use						
	Air inlet rotary strainer	●						
	Oil cooler	●						
	Condition of cooling fins		●					
	Engine air filter		●					
	Hydraulic components		●					
CHANGE	Engine oil		●					
	Hydraulic oil						●	
	Fuel Tank					or once a year		

14• MAINTENANCE SCHEDULE

HVHP - HVHPX - BVHP - BVHPX

IMPORTANT : The warranty will only apply if your mower has had the service carried out by your dealer, after the first 10 hours.

After the first 10 hours or before starting, if the toothed belt has been installed for more than 3 months, have your dealer tension the blade transmission toothed belt.

	Parts	Before each use	After the first 10 hours	Every 100 hours	Every 200 hours	Every 400 hours	Every 1000 hours	Every 2500 hours	
REPLACE	Engine air filter		HAVE THE SERVICE DONE BY YOUR DEALER AFTER THE FIRST 10 HOURS				or once a year		
	Air filter 10µm hydraulic oil tank				More if dusty conditions				
	Engine oil filter 20µm			•					
	Hydraulic oil filter 25µm				•				
	Fuel filter					•			
	Spark plugs						•		
	Exhaust silencer with catalyser						•		
GREASE	Axle - 3 grease nipples			•					
	Blade coupling	Each time dismantled							
	Raising cylinder			•					
	Ball joints of rear part of grassbox - 2 areas with a brush		•						
	Scraper connecting rod wheel (top emptying model)		•						

15• WARRANTY

DEFINITIONS

- Dealer, importer = distributor linked to ETESIA by an agreement (dealership or importer contract). The dealer and the importer are in charge of selling and servicing ETESIA machines.
- User, buyer = physical or moral person, company, collectivity or association having bought legally a machine new or second hand from a dealer.
- Domestic use = use of a machine on a private ground. Machine is owned by the user and just use to clear its private piece of ground (main or secondary residence).
- Professional use = use of an ETESIA machine, in exchange of money or not, on public areas to maintain companies or institutions like : hospitals, associations,...or on private fields being owned by a third person.
- Wear parts/consumable parts : parts needing to be changed inevitably to enable an optimal normal use of the machine.
- Normal use = use of the machine according to all instructions mentioned in the instruction book (including safety and maintenance).

GENERAL WARRANTY CONDITIONS

- In addition to the legal warranty, ETESIA offers a contractual warranty. The ETESIA warranty concerns the exchange of parts free of charge in case of material, production or conception fault. This warranty applies to the product as he leave ETESIA production line.
- The delivery company is only responsible in case of transport damage. It is however the addresse responsibility when damages occurs during transport to mention reserves on the delivery note when receiving the goods and to inform ETESIA within 48H by registered letter.
- The instruction book delivered with every machine contents all information regarding machines use. Any different use from the one described in the instruction book can be dangerous for the user and reduce machine life. In such cases, ETESIA can not be held responsible.

CONTRACTUAL WARRANTY

- ETESIA offers, in addition to the statutory warranty, in particular that covering hidden and latent defects and the guarantee of conformity of the product with the contract due by the vendor to the consumer, a contractual warranty:

The ETESIA contractual warranty is allowed for 2 years in professional use and for 3 years on domestic use (warranty period starting the first day when the machine is purchased by the user). This warranty is valid if :

- 1) Instructions from the instructions book have been respected.
- 2) The warranty card has been returned to ETESIA immediately after the machine purchase or completed on the extranet site.
- 3) Strict respect of or revisions as defined in the maintenance table of the user instructions is required.
- 4) To request a repair under warranty, the buyer must contact the ETESIA dealer. Should it not be possible, he could contact ETESIA who will propose an alternative solution.
- 5) Any suspected failure by way of a defect within the framework of the contractual warranty must be presented by an approved dealer. Only repairs done by ETESIA dealers workshops can be taken under warranty.
- 6) Any material, production or conception fault recognized by ETESIA as such will be eligible for warranty (parts and labour). It will therefore be paid back to the dealer according to charge scale mentioned in the agreement.

It is the dealers responsibility to make sure that the end user does receive the complete warranty allowed by ETESIA. Should ETESIA not recognize any fault, the dealer will be held responsible. ETESIA reserves the right to cancel the decision with no compensation or warning.

- 7) Any intervention done within warranty time, in particular in case of parts exchanged, will not give right to any new warranty period.
- 8) In case of parts exchanged under warranty, ETESIA reserves the right to use either new or second hand parts. Parts replaced can be requested to be returned at any time by ETESIA. Should ETESIA not receive these part(s), a warranty claim would automatically be rejected.
- 9) This warranty however does not cover : parts damaged during a repair action ; machines not having been serviced according to the repair schedule mentioned in the instruction book ; parts with normal wear.

Please find a list (not complete) of wearing parts: spark plugs, filters, exhaust, seals, membranes, blades, blade coupling parts, belts, clutches, batteries, battery electrolytes, control cables, sheath, fuel pipes, durits, cooling liquid, hydraulic and lubrication liquids, fuel, seat, bonnets, grassbox, material grassbox frame, mudguards, pedal covers, running board cover, anti scalp kit, roll axle...

- 10) Warranty right is cancelled in the following cases:
 - a) Damages due to non respect of safety, maintenance use and storage instructions. ETESIA will not be held responsible, legally in particular, for damages resulting from other uses than the ones described in the instruction book.
 - b) Damages due to accident or collision.
 - c) Damages due to a modification of the original machine or use of non original spare parts.
 - d) Damages to machines not having been maintained by the ETESIA dealer network.
- 11) In case of owner change, the outstanding warranty period can be transferred to the new owner. However to enable this transfer a written request need to be sent to the ETESIA after sales department. This request needs to attest as well that the new end user has received the instruction book for the machine as well as the warranty terms.
- 12) ETESIA reserves the right to check that preliminary conditions for warranty have been respected by the buyer.
- 13) When a warranty application is requested, ETESIA will deliver the parts as soon as possible. However an immediate delivery can not be requested.

A delay in delivery would in no case give right to compensation or to warranty extension.
- 14) Any additional claims to ETESIA is excluded.
- 15) In the event of a dispute over a warranty claim, the only competent court will be the one indicated on the distribution contract between ETESIA and the approved dealer in question.

IMPORTANT NOTE :

As soon as a machine purchase takes place, the warranty cards needs to be :

- completed, signed and sent back to

ETESIA – WARRANTY SERVICE
67165 WISSEMBOURG CEDEX FRANCE

- or completed by your dealer on line on the extranet.

These contractual guarantees are in addition to the legal warranty against hidden and latent defects and the guarantee of conformity of the contract by the seller to the consumer.

EC DECLARATION OF CONFORMITY

As per Directive 2006/42/EC

We,



13, Rue de l'Industrie, 67165 WISSEMBOURG CEDEX

declare under our responsibility, that the ride-on lawnmowers, type H100D, reference BPHP2, BPHPX2, HVHP, HVHPX, BVHP and BVHPX to which this declaration refers, fulfil all the relevant terms of directive 2006/42/EC applicable to them as well as to the provisions of all other directives European applicable to them:

- | | |
|------------------------------|---|
| - 2014/30/UE (from 26/02/14) | Electromagnetic compatibility |
| - 2006/66/EC (from 06/09/06) | Concerning batteries and accumulators containing certain dangerous substances |
| - 2000/14/EC (from 08/05/00) | Noise emission in the environment by equipment for use outdoor |

and guarantee that the ride-on lawnmowers, type H100D, reference BPHP2, BPHPX2, HVHP, HVHPX, BVHP and BVHPX meet the requirements of Directive 2000/14/EC regarding noise emissions in the environment, and are subject to the internal production control procedure, with evaluation of the technical documents and periodic inspection by a notified body, the CETIM, F-60304 SENLIS CEDEX

- | | |
|---|---|
| - Average acoustic power level measured : | 100 dB (A) for BPHP2, BPHPX2, BVHP, BVHPX
105 dB (A) for HVHP, HVHPX |
| - Guaranteed acoustic power level : | 100 dB (A) for BPHP2, BPHPX2, BVHP, BVHPX
105 dB (A) for HVHP, HVHPX |

and guarantee that the ride-on lawnmowers, type H100D, reference BPHP2, BPHPX2, HVHP, HVHPX, BVHP and BVHPX meet the requirements of Directive 2006/42/EC when they are equipped with accessories of Chapter 8.

Mr Schmitt Freddy

13, rue de l'industrie 67165 Wissembourg CEDEX

is the person authorized to constitute the technical file.

Assessment of conformity in-house inspection of machine manufacture according to Annex VIII of directive 2006/42/EC.

Modell :



Production year

Serial number:

Done in Wissembourg, the 07/10/2019

Mr. Patrick VIVES

The President

Due to their permanent improvement policy, ETESIA reserves the right to modify specifications, text and pictures without prior notice.

ETESIA SAS - F -
67165 WISSEMBOURG CEDEX
Strasbourg Trade & Commerce Register B343 510 996

Stamp
here
please

ETESIA

SERVICE GARANTIE

13 rue de l'Industrie
67165 WISSEMBOURG CEDEX
France



