

FC2-221

Kubota

Code No. W780004451

OPERATOR'S MANUAL MULTIFUNCTION TOOL CARRIER

FC2-221



READ AND SAVE THIS MANUAL

pag.

EN

OPERATOR'S MANUAL6
Translation of the originals instructions

ILLUSTRATIONS AND DIAGRAMS.....47



SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.



DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

IMPORTANT: Indicates that equipment or property damage could result if instructions are not followed.

NOTE: Gives helpful information.

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NOTES FOR THE DISPOSAL OF THE PRODUCT VALID FOR THE EUROPEAN COMMUNITY



Do not dispose the product as a solid urban waste but dispose it by dropping it at a dumping site. By salvage dumping the product you risk to pollute the nature. If the product is provided with a battery, you must dump the battery in a separate container as the battery contains highly toxic substances. The above shown figure represent a local garbage bin. It is absolutely forbidden to throw the product in such a bin.

0. NAMEPLATE CE

See figure 0.

The label is purely indicative, refer to the one affixed to the machine.

- | | | |
|---------------------------|-------------------------------|---------|
| 1) Manufacturer's address | 4) Engine | 7) Type |
| 2) Model | 5) Construction's year | |
| 3) Weight | 6) Designation of the machine | |

1. SERIAL NUMBER

See figure 1.

2. TO OUR CUSTOMERS

We are pleased to welcome you as one of our customers. To ensure best possible performance of your machine as well as for useful tips for using and maintaining it, we kindly ask you to read through carefully the User's Manual. The machines FC2-221 can be fitted with various equipments: it is therefore important that the user studies, in addition to this manual, also the manual referring to the equipment that he intends to mount on his machine. The machine has been designed to give best performance under difficult conditions. Its working performance largely depends of course on its maintenance. Should queries arise that have not been dealt with in these instructions, then please contact your dealer who will be able to assist you further.

3. INTENDED PURPOSE

The machine belonging to the FC2-221 range, is a multifunction tool holders machine mostly used professionally. The most common possibilities of use are:

- Lawnmower
- Reel mower
- Surfaces maintenance
- Snow blade
- Flail mower
- Soil aerator/scarifier

Kubota Gianni Ferrari decline any responsibility if the machine is used with any implement different to those mentioned in this manual.



WARNING: Use of the ROPS protection structure and the safety belts is compulsory. However, even when using the ROPS protection structure, work on slopes that are steeper than those indicated in the "Slopes" paragraph of this handbook is not permitted.

4. FORBIDDEN FORESEEABLE USE

Any use not mentioned in paragraph "Intended Purpose" is not allowed.

The use of any implement not mentioned in this manual is considered as improper and dangerous as not controlled by us for risks of use.

Transportation of persons (except the driver), objects or animals is not allowed.

It is absolutely forbidden to use the machine without having read this manual.

Transformations and modifications to the machine not mentioned in this manual are absolutely not allowed.

It is absolutely not allowed to use the machine if it is not in perfect working condition therefore precede to all necessary controls and maintenance recommended.

Do not allow children and adolescents to use the machine.

Do not use the machine with sandals or bare-foot.

It is absolutely forbidden to use the machine as a hoist.

It is forbidden to use the machine with badly assembled implements.

Never start the engine in a closed room. Exhaust fumes are poisonous.

Before carrying out maintenance operations on the machine make sure that the same is off.

Before intervening on the electrical installation, disconnect the power cables from the battery terminals.

Be careful that flames or sparks do not get near the petrol tank.

Never park on slopes.

Do not use the machine for towing.

It is absolutely forbidden to tamper with the machine speed control seals.

Do not use the machine in adverse weather conditions, especially in the presence of lightning.

5. OPERATOR'S RESPONSIBILITY

The operator is responsible for carefully reading this manual and understanding the correct way to use, lubricate and service the machine, as explained in the instructions.

The operator is responsible for checking the machine and repairing or replacing those parts subject to continual wear (that could cause harm to other people).

Operators are liable for damage caused to third parties, themselves and things arising from improper use of the machine and in contrast with the instructions provided in this manual.

The machine must be used and serviced exclusively by people who are familiar with its specific characteristics and have fully understood the safety requirements.

Never allow children or teenagers to use the machine. Local regulations may indicate a minimum age for the operator.

Use only the couplings, parts and accessories supplied by our company for the specific model you have purchased. For more information, contact your dealer.

Any transformation or modification of the machine not envisaged by this manual is therefore prohibited.

NOTE: When using the machine, the operator must scrupulously observe the safety precautions provided in this manual, together with accident prevention regulations, other general safety regulations and the provisions defined by the occupational health authorities.

6. SAFETY STANDARDS

ONLY A CAREFUL USER IS A GOOD USER

If you follow the Safety Instructions in the manual you can avoid accidents.

GENERAL PART

- 1) Read through carefully each section of these instructions. It is absolutely forbidden to use the machine to personnel who have not read and understood this manual.
- 2) Check the machine before every use for defect, for e.g. loose screws and bolts, loosened or damaged blades or other parts which are not secure. It is absolutely forbidden to use the machine in improper conditions.
Therefore, before starting your machine go through the control and service instructions as recommended.
- 3) Before starting the machine acquaint yourself with all the parts and with the checking system.
- 4) The machine should only be used by adults with experience. Don't let children use it.
Avoid using the machine if you do not feel physically fit for the job.
- 5) Keep people within a certain security distance as explained hereafter.
- 6) Only use original parts and accessories. Do not make any changes thereto.
For information, please consult your dealer.
- 7) Replace lost or damaged safety stickers or warning labels. Check the list of safety stickers in the "Safety precautions" section of this manual. Wipe dust and dirt off the stickers.
- 8) Keep hands and feet, as well as your body away from the moving parts.
- 9) Never use the machine without protection and covers in the right position and perfect condition.
Do not use the machine if its safety devices are not perfectly efficient.
For no reason, tamper with the machine safety devices.
- 10) Should an object have been run over or got stuck, stop immediately. Turn off the engine and remove the ignition key. Disengage the P.T.O., put the attachment onto the ground and inspect it. Do not start using the machine until you are sure that it is in perfect working order.
- 11) When you have finished working with the machine, disengage the P.T.O.*, put the attachment lower down so that it touches the ground, turn off the engine and remove the key.
- 12) Before carrying out maintenance operations on the machine make sure that the same is off.
Before intervening on the electrical installation, disconnect the power cables from the battery terminals.
- 13) Machine speed should be suited to the ground you are working on.
- 14) Working on slopes requires extreme caution and reduced speed.
- 15) When using the machine wear suitable clothing, glasses, gloves, safety and anti-slip footwear and any other protective clothing.
- 16) Only use the machine with good visibility.
- 17) All drivers should receive a professional and practical training. Such training should highlight the following:
 - the necessity of paying attention and being concentrated when working on machines where the driver is sitting.
 - a machine sliding down a slope can be brought again under control by pulling the brakes. The main causes for the loss of control are:
 - a) insufficient grip of the wheels;
 - b) driving too fast;
 - c) inadequate braking;
 - d) type of machine unsuitable for the job required;
 - e) lack of awareness of the effect of the condition of the ground, particularly of slopes ;
 - f) the equipments are wrongly attached and the loads are consequently badly distributed.

- 18) During the phases of work, always wear strong shoes and long trousers. Do not use the machine when you are bare-footed or wearing sandals.
- 19) Inspect thoroughly the area where the machine is to be used and remove all the object that could be thrown by the machine.
- 20) Always disengage the P.T.O.* when transferring the machine.
* power take-off
- 21) The tow hook may only be used in the event of machine malfunction.
- 22) Every time the user leaves, even temporarily, the machine must activate the parking brake.
- 23) During the reversing phase pay great attention to obstacles and in particular to people.
- 24) It is the duty of the employer to evaluate and adopt the most suitable individual protection devices.
- 25) Pressurised hydraulic fluid may penetrate and seriously damage the skin, seek medical advice immediately.

6.1 SLOPES See figure 6.1

- Do not use the machine on longitudinali slopes of more than 12°.
- Do not use the machine on lateral slopes higher of more than 12°.
- Do not proceed on slopes of any kind (lateral or longitudinal) with the deck and basket lifted.
- Do not stop or start suddenly the machine when going up or down a slope.
- Proceed with low speed on slopes or narrow curves.
- Pay attention to any road humps, potholes or other hidden dangers. If the ground is irregular, the machine can overturn more easily.
- Do not operate in the proximity of shoulders, ditches or river banks; the machine could suddenly overturn if a wheel goes beyond the edge of the latter, or if the shoulder cedes.

6.2 TRANSPORT - UNLOADING - SOLLEVAMENTO See figure 6.2

The machine is heavy and can lead to serious crushing injuries.

Load and unload it with caution using loading ramps.

Transport the machine on a type-approved trailer. During transportation, apply the parking brake and hold the machine in place with the aid of type-approved belts, chains or ropes.

IMPORTANT: If the machine is packed and placed on its pallets, it can be moved with the forklift. Minimum capacity 700 kg



WARNING:

The parking brake is not sufficient for locking the machine during transport. Fix appropriately the machine to the vehicle with homologated devices.

7. TECHNICAL CHARACTERISTIC See figure 7.

Measurement in mm.

****** See technical manual for the equipment.

Engine	FC2-221	
	KUBOTA D902	
Engine power (kW)	15,9	
Displacement (cc.)	898	
N° of cylinders	3	
RPM	3200	
Driving wheels	Front with possibility of differential locking	4 wheel drive with differential lock
Type of progress	Hydrostatic	
Service brake	Hydrostatic	
Parking brake	Mechanical drum brake	
Max speed (km/h)	10,9	
Fuel tank (l)	16	
Basket capacity (l)	480	

7.1 MACHINE WEIGHTS

	FC2-221
Mass (kg)	657

7.2 COMPATIBLE IMPLEMENTS See figure 7.2

Consult the specific technical manual for the equipment

NUMBER OF BALLAST		Machine	
Code	Attachments	FC2-221 -	Fig.
RC44C-FC2	Mower Deck	-	-
RCF43-FC2	Flail Mower	 x 10 -	7.2
SNOW BLADE 110-FC2	Snow Blade	-	-
WEED BRUSH-FC2	Weed Brush	-	-

Contact an authorised assistance centre.

7.3 NOISE

SOUND POWER	111.2 dB (A) +/- 2.8
SOUND PRESSURE IN OPERATOR'S POSITION	93.8 dB (A) +/- 3

7.4 VIBRATION

	FC2-221
Exposure of upper limbs to acceleration	< 2,11 m/s ² (+/- 0,10)
Exposure of body to acceleration	0,72 m/s ² (+/- 0,17)

8. CONTROLS AND INSTRUMENTS

See figure 8.

The machine includes the following controls:

- | | | |
|-------------------------------------|--|-----------------------------------|
| 1) Steering wheel | 10) Light switch | 19) Cooling fluid max temp. light |
| 2) Parking brake | 11) Switch key | 20) Engine oil pressure light |
| 3) Adjusting the longitudinal seat | 12) Differential locking device pedal | 21) PTO pressure light |
| 4) By-pass lever | 13) Forward speed pedal - reverse gear | 22) PTO oil temperature light |
| 5) Elevator activating lever basket | 14) Engine choke control | 23) Lights indicator |
| 6) Lever for quik grip | 15) Clogged oil filter light | 24) Parking brake light |
| 7) P.T.O. engagement | 16) Hourmeter | 25) Turn signal indicator light |
| 8) Accelerator | 17) Battery alternator light | 26) Battery cut-off switch |
| 9) Lever for lifting the equipment | 18) Prehating light | |

9. USING CONTROLS AND INSTRUMENTS

9.1 FORWARD - REVERSE See figure 9.1

9.2 PARKING BRAKE See figure 9.2

9.3 DIFFERENTIAL LOCKING DEVICE See figure 9.3

9.4 BY-PASS See figure 9.4

IMPORTANT:

Avoid towing the machine for long stretches with inserted by-pass.

9.5 HAND THROLLE See figure 9.5

9.6 P.T.O See figure 9.6

9.7 HYDRAULIC LIFT OF THE EQUIPMENT See figure 9.7

9.8 ELEVATOR / BASKET OVERTURNING See figure 9.8

- E. Lifting basket
- F. Closing elevator



WARNING:

When transferring the machine, especially when making curves, do not proceed in any case with basket outside.

9.9 QUICK COUPLINGS See figure 9.9

10. STARTING THE ENGINE See figure 10.

- 1) Take your place correctly on seat.
 - 2) Make sure that the battery cut-off switch is in the ON position.
 - 3) Make sure that P.T.O. lever is entirely disengaged
 - 4) Make sure that the parking brake pedal is entirely engaged.
 - 5 - gasoline) Set engine choke control to for cold starts and turn the ignition key to the "ON" position.
 - 5 - diesel) Turn the ignition key to the "ON" position and wait until the glow plugs are preheated, if necessary.
 - 6) Turn the ignition key onto the symbol to start the engine
 - 7 - gasoline) Slowly return choke to run position once the engine has started.
- * With temperature under 0°C keep the engine at medium speed for at least 5 minutes

11. DRIVING THE MACHINE See figure 11.

- 1) Set throttle lever.
- 2) Disengage the parking brake.
- 3) Select the desired speed through the pedal fitted on the right side.
- 4) By moving the steering wheel one steers the back wheel.

NOTE: To stop the machine, just release the forward or reverse pedal; once stopped, engage the parking brake.



CAUTION: To be driven at slow speed, for safety reasons make sure that people and animals are at least 3 meters away

12. CUTTING AND AUTOMATIC GRASS COLLECTION See figure 12.

13. STOPPING THE ENGINE

- 1) Stop the machine.
- 2) Disengage the PDP lever.
- 3) Engage the parking brake.
- 4) Fully lower the equipment by means of the specific lever.
- 5) Make sure that the basket is completely drawn in.
- 6) Reduce the motor revolution to minimum.
- 7) Turn the ignition key from "ON" position to "STOP" position.

14. TANK FILLING See figure 14.

Only fill the tank in open air or in a sufficiently ventilated room. The engine must be turned off and no flames or sparks should be made. Check that the fuel is the one indicated by the label on the tank.



WARNING: fuel is highly inflammable.

Keep the fuel in jerrycans. Fill the tank with petrol only in open air and do not smoke during this operation. Add fuel before starting the engine. Never remove the tank lid nor add fuel when the engine is working or is hot.

In case of fuel escape, do not try to start the engine but move the machine away from the place where the escape took place and avoid creating ignition sources until fuel fumes have dissipated. Replace the correct lids on the tank and the jerrycan. Never store the machine with fuel in the tank inside a building where the fumes might reach some free flames or sparks. Let the engine cool down before storing the machine in any closed environment.

15. ORDINARY MAINTENANCE

If you have to carry out maintenance operations, use only original spare parts, to ensure the same maximum reliability to the machine. Before carrying out any maintenance work, read carefully the indications given in the paragraph 3 "Safety rules".

IMPORTANT: In case you have to intervene on the machine with lifted basket, turn off the engine.

15.1 ADD ENGINE OIL See figure 15.1

KUBOTA D902
OIL SHELL SPIRAX S3 T

Consult the Use and Maintenance manual of the engine.

15.2 ADD HYDRAULIC SYSTEM OIL See figure 15.2

OIL SHELL HYDRAULIC S1 M 46

15.3 ENGINE OIL REPLACEMENT See figure 15.3

15.4 BATTERY

The battery fluid does not need checking or topping up.

15.5 FUSES See figure 15.5

15.6 AIR FILTER See figure 15.6

Periodical checks.

15.7 HYDRAULIC OIL FILTER REPLACEMENT See figure 15.7

15.8 ENGINE OIL FILTER See figure 15.8

Consult the use and maintenance manual of the engine.

15.9 TYRE PRESSURE See figure 15.9

If the front tires are inflated at different pressure, the blades will mow the grass at different heights

15.10 CLEANING THE MACHINE See figure 15.10

15.11 GREASING See figure 15.11

See tab. maintenance.

15.12 ADD COOLING FLUID See figure 15.12

16. EXTRAORDINARY MAINTENANCE

For the extraordinary maintenance of the machine, contact only an authorised service center.

17. INACTIVITY OF THE MACHINE

In case the FC2-221 machine has to remain idle for a long period of time, it is convenient to carry out some operations to ensure its efficiency when reused and the duration of the same for years:

- Disconnect the equipment from the engine and follow the operations indicated in the relevant use and maintenance manual to prearrange it for "out of service".
- Carry out all the indications given in the use and maintenance manual of the engine prearrange the same for "out of service".
- Remove the battery and store it in a dry and ventilated place.
- Clean carefully the engine with an eye in particular where there are incrustations due to soil and grass residues.
- Carry out the "ordinary maintenance" operations described above and, if necessary, carry out also the "extraordinary maintenance".
- Park the engine in a dry and ventilated place and cover it with a suitable non-impermeable protection sheet.
- During the period of inactivity, always maintain the pressure indicated for the tyres and, periodically, change the resting point of the tyres on the ground.

18. ROAD USE See figure 18.

This machine is fitted / available with general lighting kits and road related devices, it is important to consult with your local jurisdictions road authority to ensure that all requirements for registration of the machine are satisfied when registering the machine for road use. Always comply with road rules / laws.

NOTE: Before driving on roads open to traffic, make sure you are familiar with the machine controls.

19. SAFETY STICKERS See figure 19.

19.1 KEY See figure 19.1

LABEL NUMBER	DESCRIPTION
1	Maximum permitted tilt
2	Do not go on slopes with elevator open
3	Turbine hazard
4	Elevator hazard
5	Blade coupling
6	Parking brake
7	Machine moving, keep a distance
8	Keep a distance, moving parts
9	Warning sign: Stop the engine, remove the key, read the manual before carrying out repair or maintenance work
10	Do not approach the machine until all the parts are stationary
11	Risk of crushing. Do not stand between the machine and the attachment

LABEL NUMBER	DESCRIPTION
12	Read the instruction manual before using the machine
13	Do not put your hands near the transmission shaft
14	Danger flying objects
15	Keep at a safe distance
16	Do not put your hands near the fan blades
17	Do not put your hands near the transmission belts
18	Battery cut-off switch
19	Lifting point
20	ROPS safety
21	Protect your hearing
22	Protect your eyes
23	Attention hot area

20. NOTES

A) Please contact our authorised dealer for anything that is not dealt with in this manual.

B) Always keep this technical handbook in a safe place for future reference. It can be modified without prior notice or any additional obligations in order to improve the product. Reproduction or translation of any part of this manual is not allowed without the owner's prior written consent.

21. TABLE MAINTENANCES

MAIN MAINTENANCE OPERATIONS	FIRST SERVICE HOURS	INTERVAL					NOTES	FIG.
		DAILY	WEEKLY	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 500 HOURS		
HOPPER GRID CLEANING		X+					●	15.10
CLEAN RADIATOR SCREEN		X+					●	15.10
OVERHALL CLEANING		X					●	15.10
ACCURATE GENERAL CLEANING			X				●	15.10
GREASING				X				15.11
COOLING LIQUID LEVEL		X						15.12
COOLING LIQUID CHANGE						X		15.12
HYDROST. DRIVE AND HYDRAULIC SYST. OIL LEVEL			X					15.2
HYDROST. TRANSMISSION OIL CHANGE						X+		15.2
RETURN OIL FILTER REPLACEMENT	50					X		15.7-A
PLUNGED OIL FILTER REPLACEMENT						X+		15.7-B
TYRES PRESSURE CHECK			X					15.9
WHEEL BOLTS TIGHTENING CHECK			X				91±2 Nm	15.9
AIR FILTER CLEANING		X+						15.6
ENGINE OIL LEVEL		X						15.1
ENGINE OIL CHANGE	50 K				X			15.3
ENGINE OIL FILTER CARTRIDGE CHANGE	50 K				X			15.8
CARBURATEUR FILTER CHANGE					X			15.8
AIR FILTER CHANGE					X+			15.6
ENGINE MAINTENANCE								
CHECK HYDRAULIC HOSES					X		Kubota	

K = Kubota

+	In case of particularly heavy working conditions, these operation must be carried more frequently .
	Motor maintenance: check the motor operating and maintenance manual.
●	These cleaning operations must be carried out preferably with compressed air. Avoid using water.
	Oil filter replacement can be required before the 500 hours time limit if advised by its warning light.
	Contact an authorized center.

22. ANOMALIES See figure 22.

23. ROLL-OVER PROTECTIVE STRUCTURES (ROPS). See figure 23. - 23.1

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Kubota Gianni Ferrari S.r.l. - via Vespucci, 53 - 42046 Reggio (RE) - Italy

2

MODEL	TYPE	MASS [kg]	POWER [kW]	CE
FC2-221	BFD001	657	15,9	
				Multifunction Tools Carrier
				Year
				00555200593

6

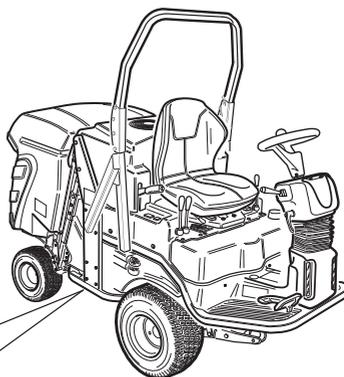
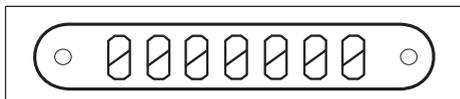
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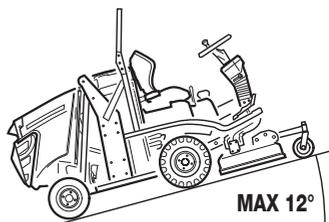
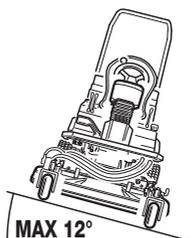
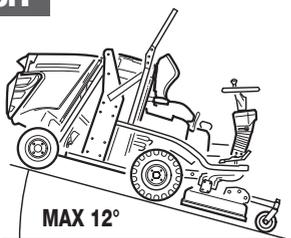
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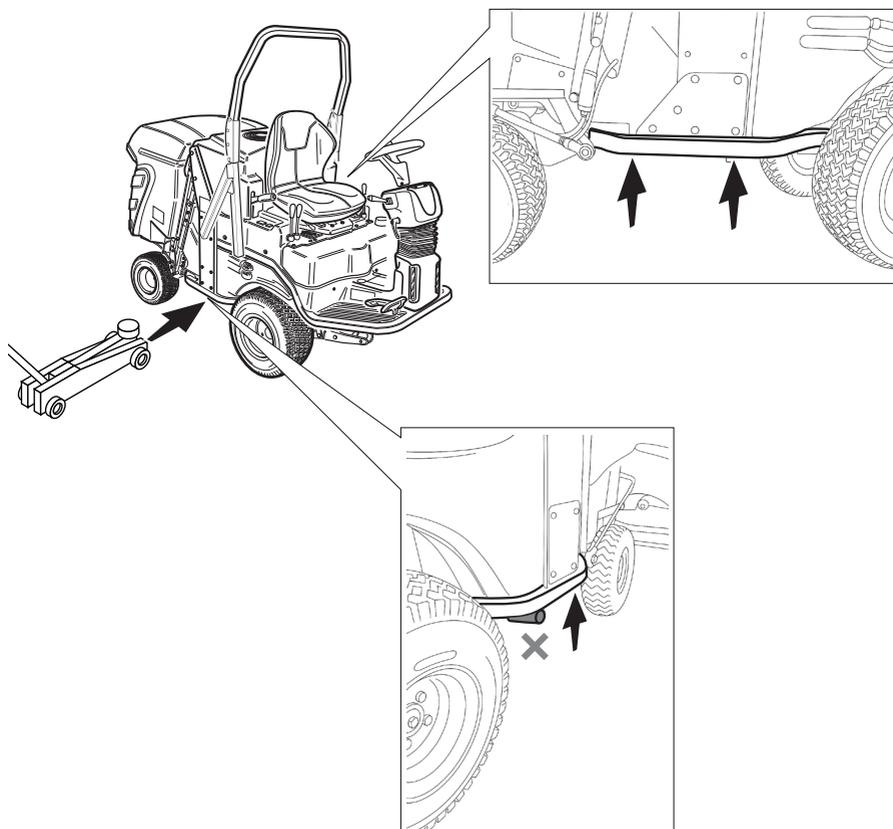
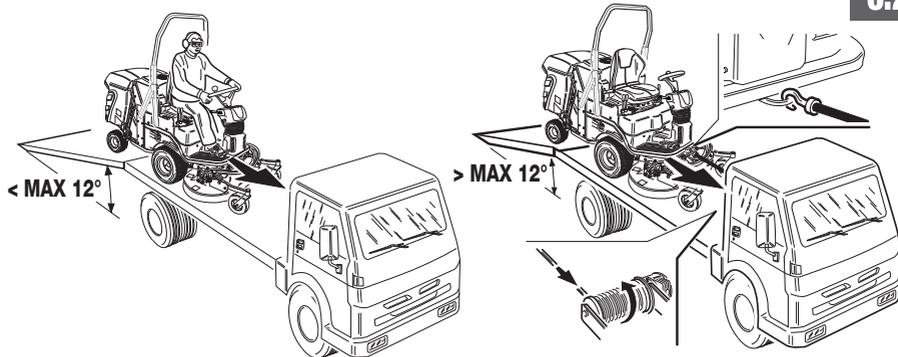
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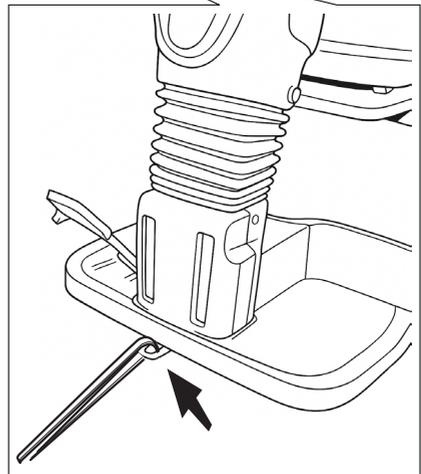
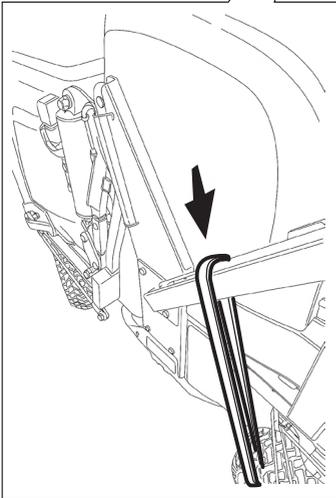
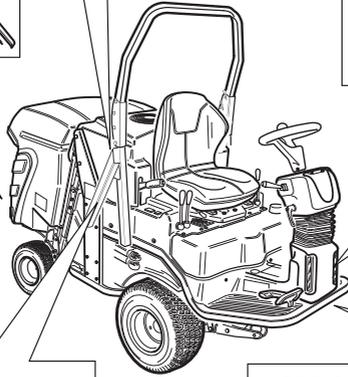
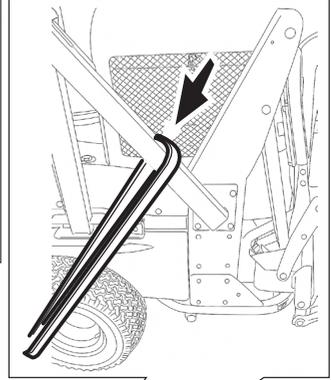
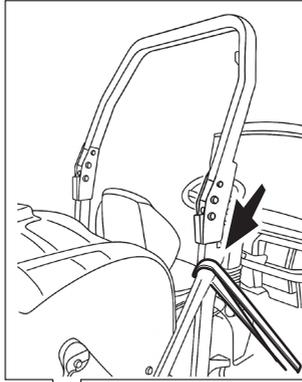
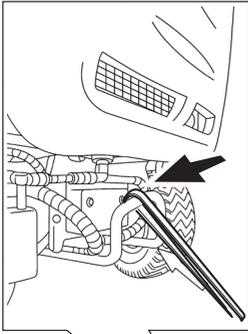


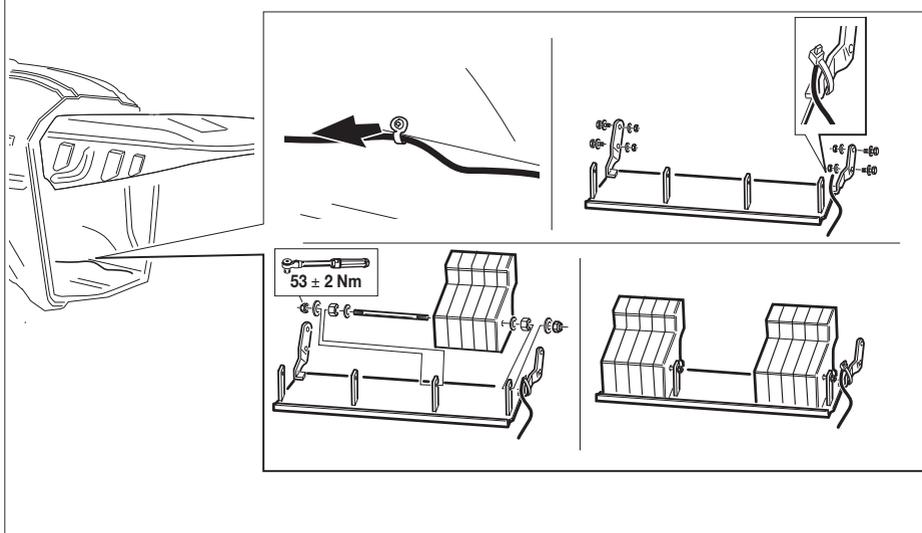
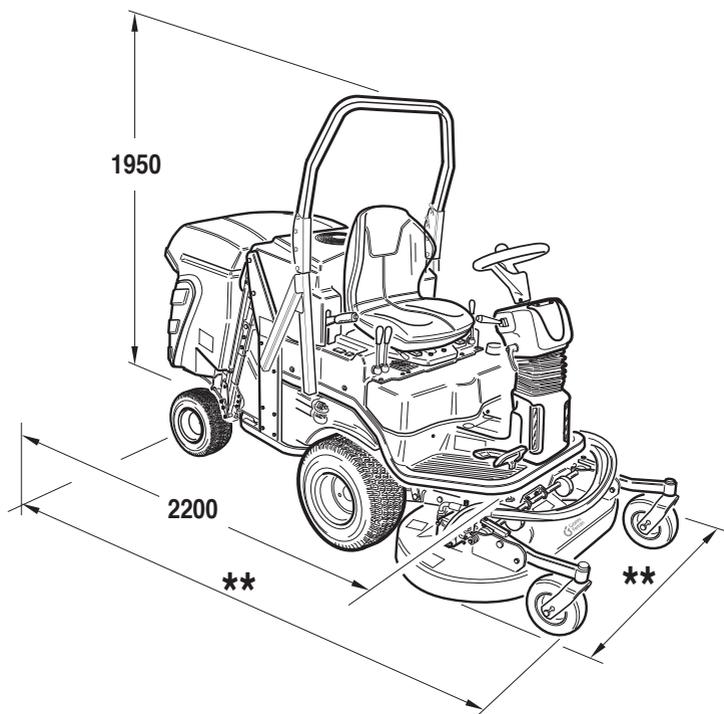
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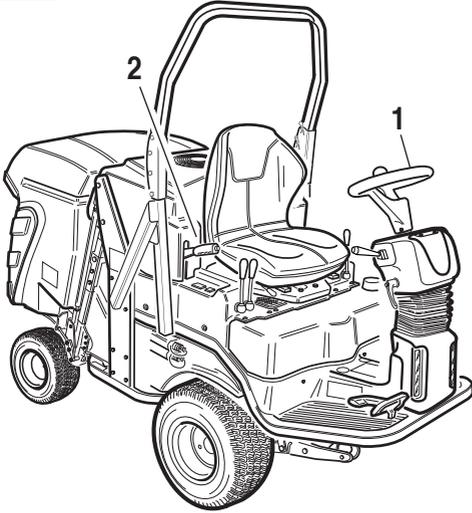


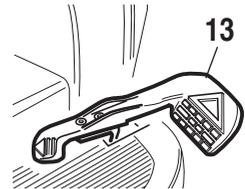
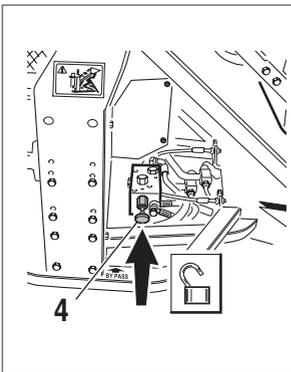
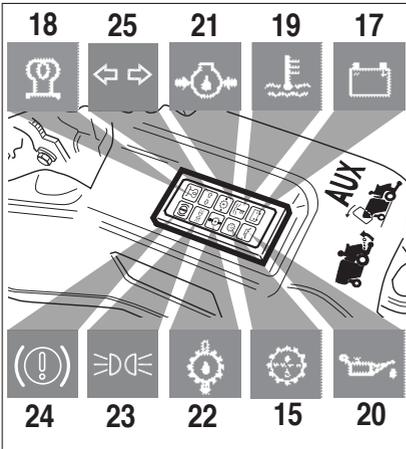
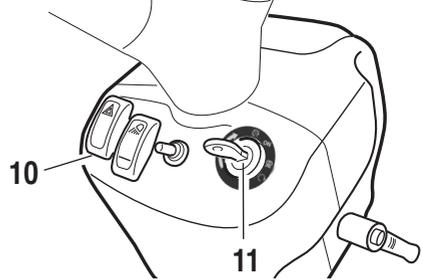
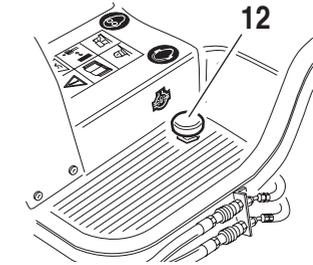
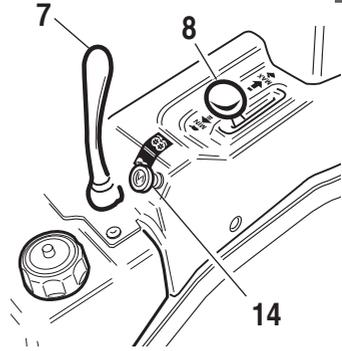
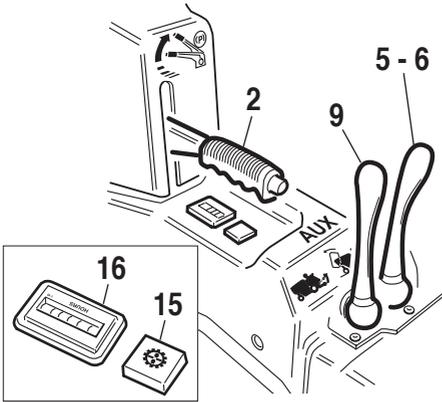
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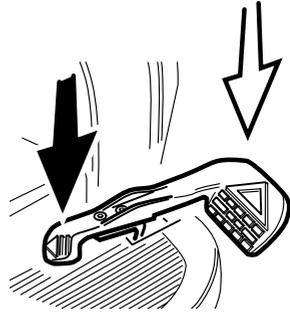
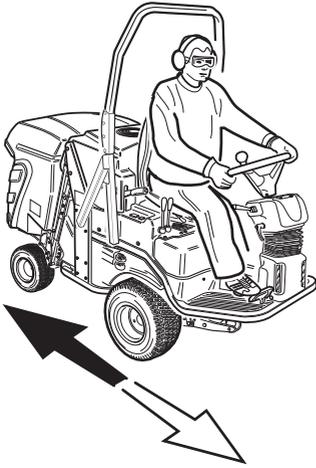


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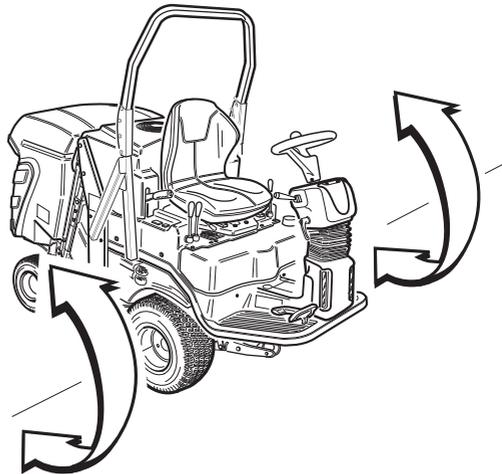
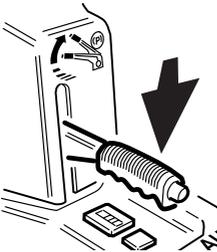
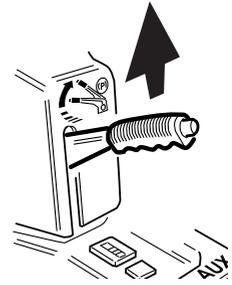
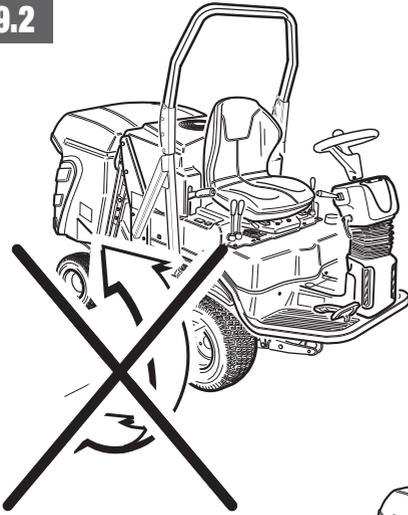




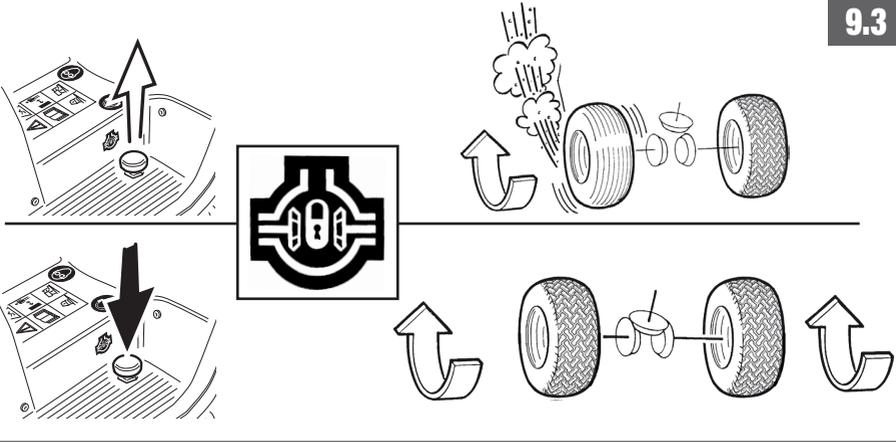
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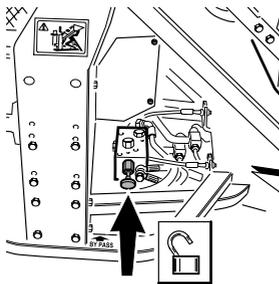
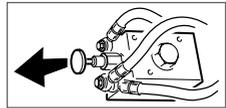
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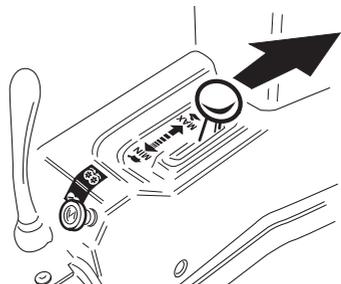
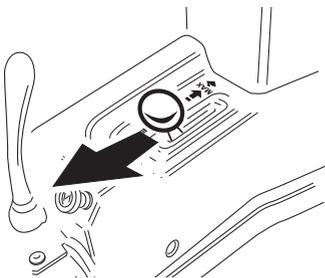


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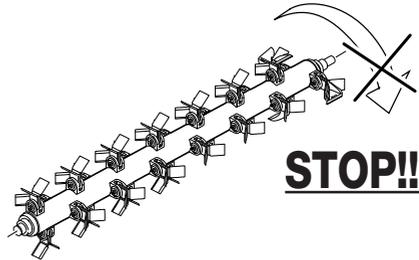
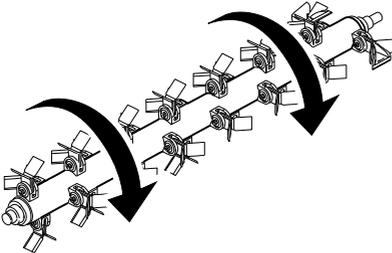
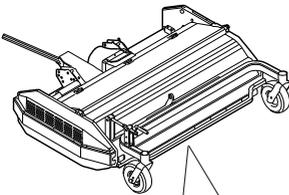
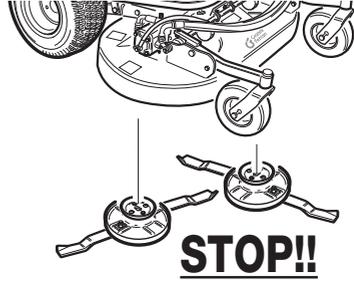
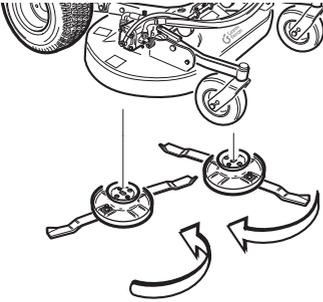
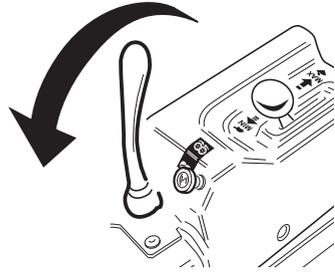
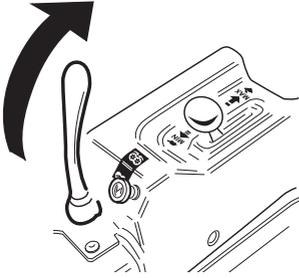


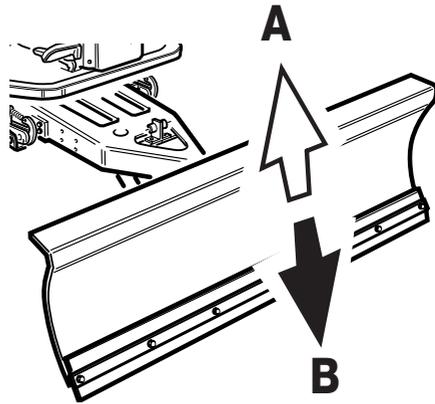
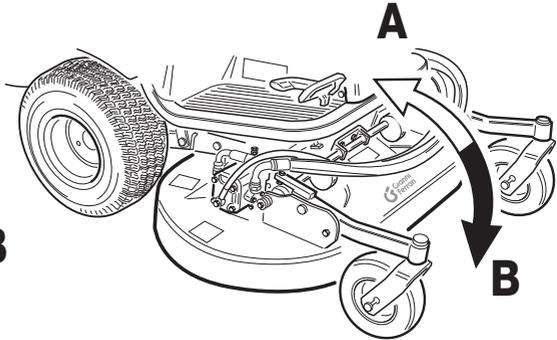
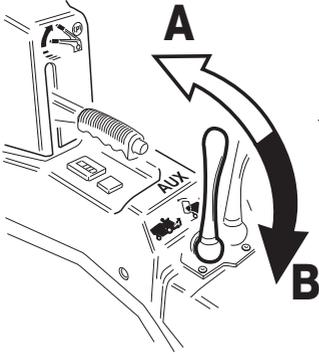
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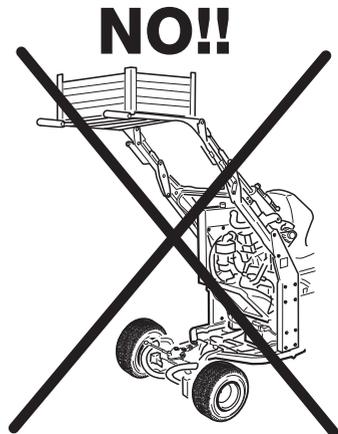
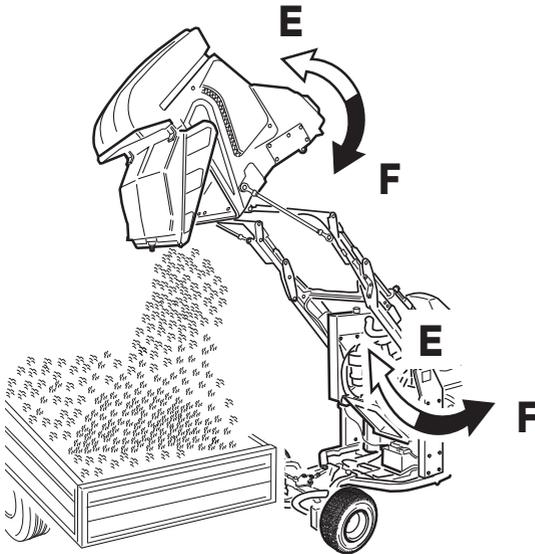
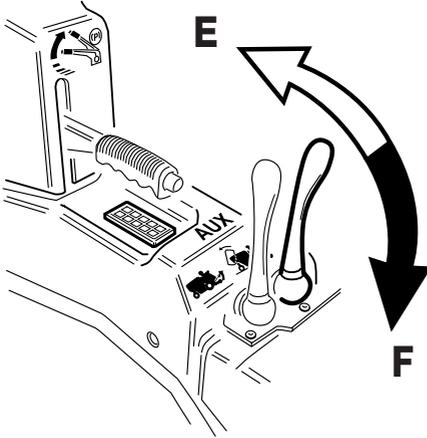


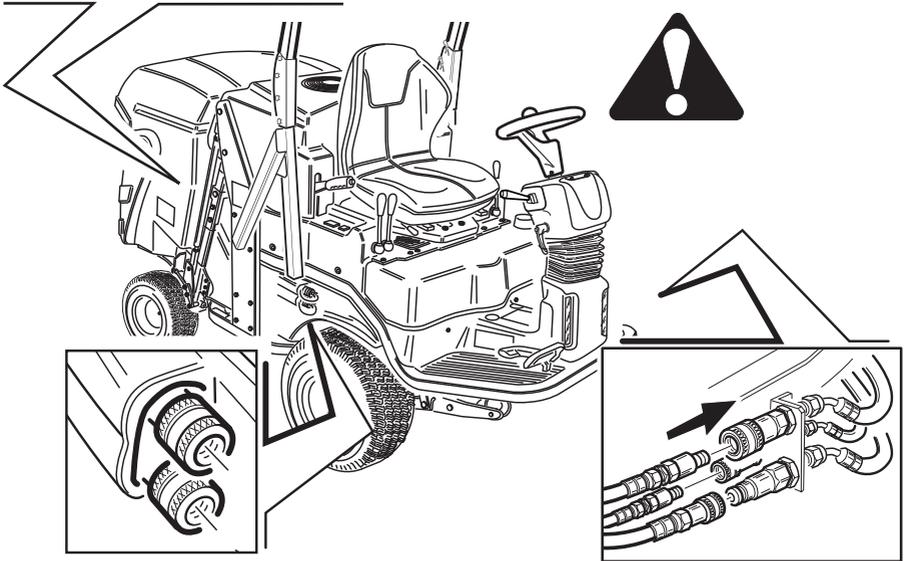
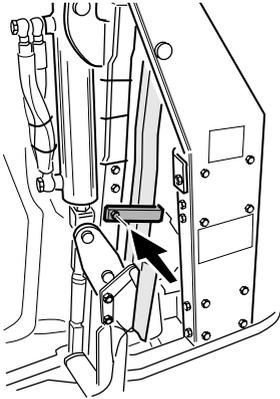
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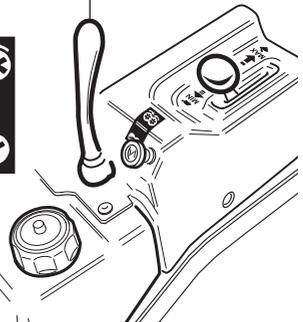
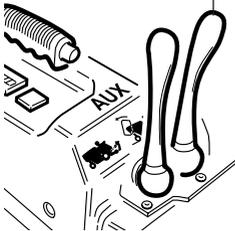


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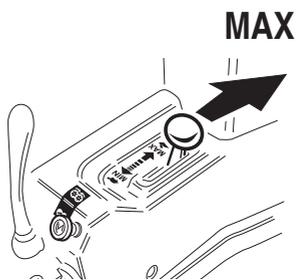
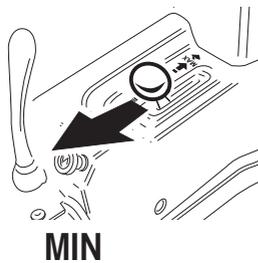




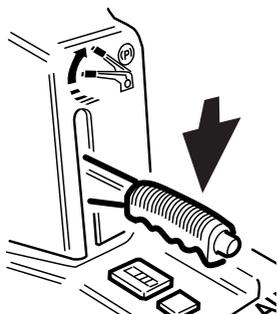
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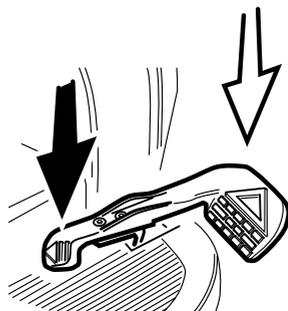
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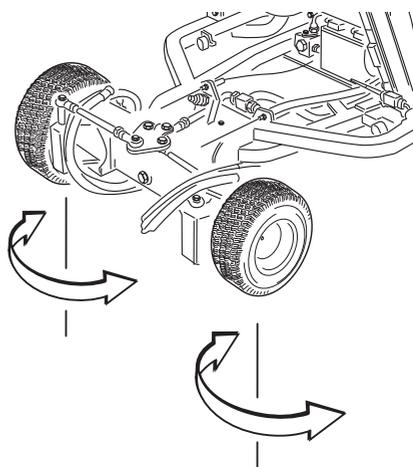
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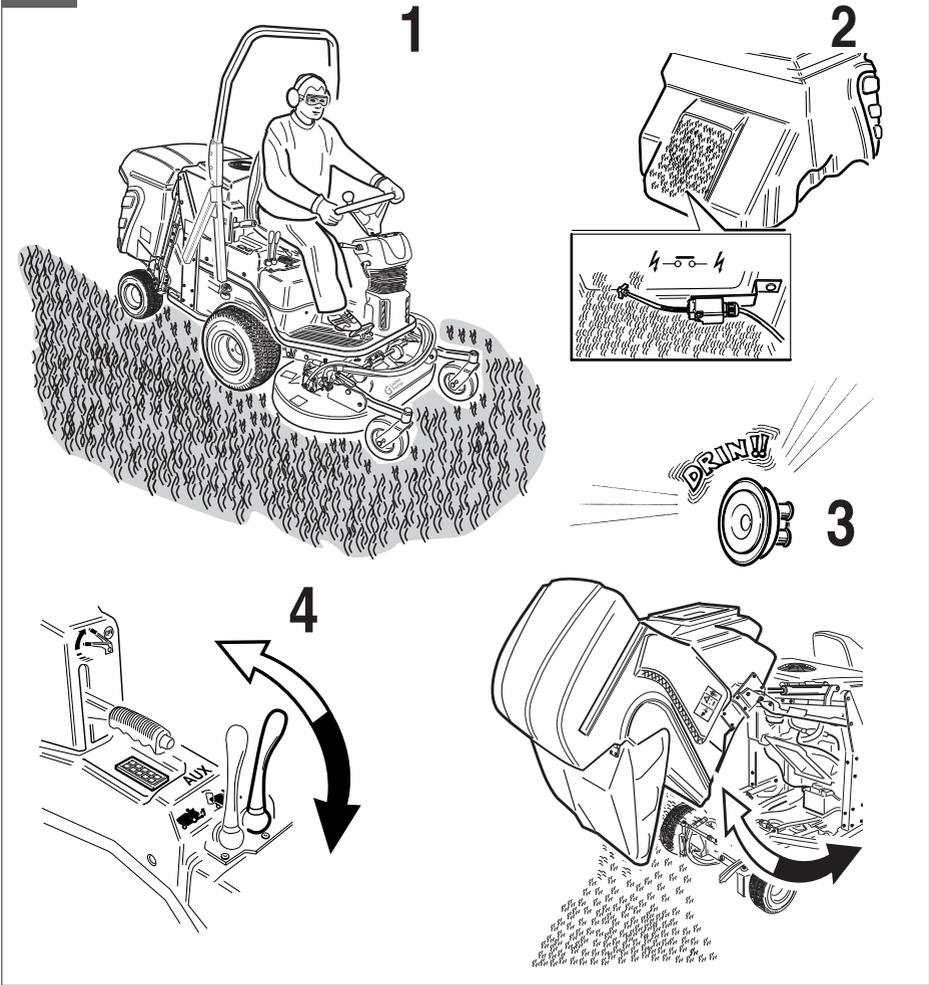
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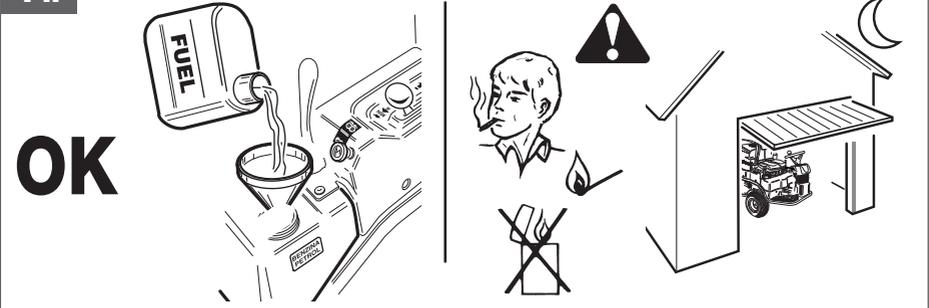
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12.



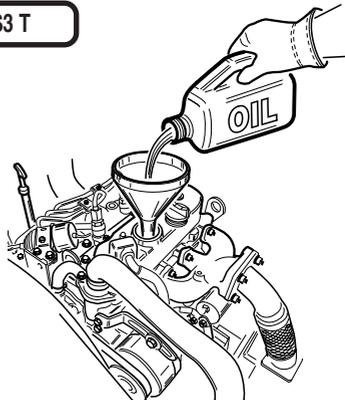
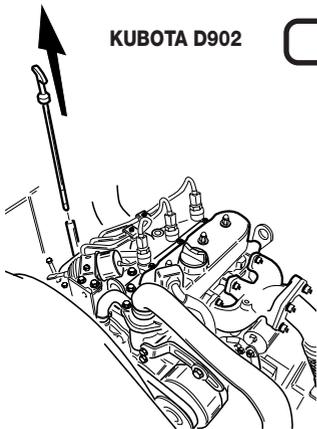
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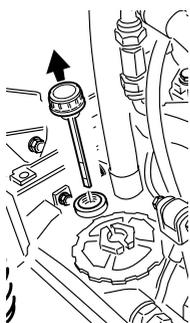
KUBOTA D902

OIL SHELL SPIRAX S3 T

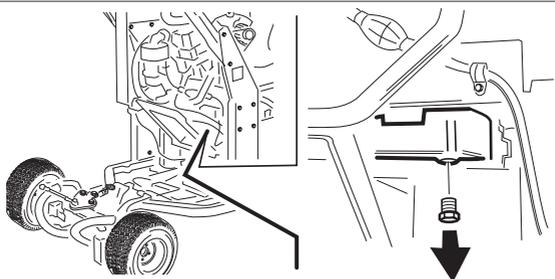


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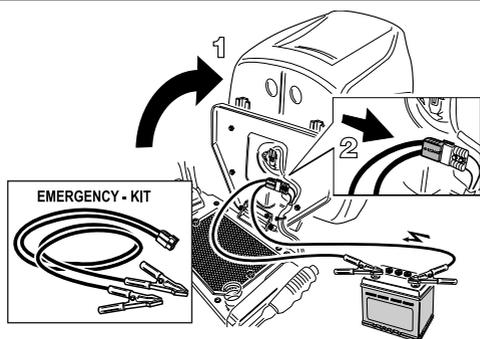
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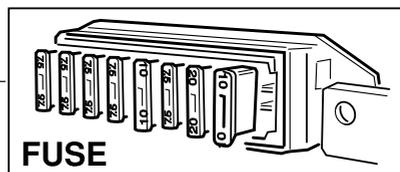
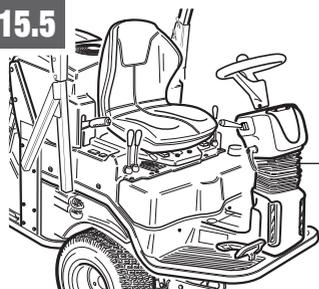
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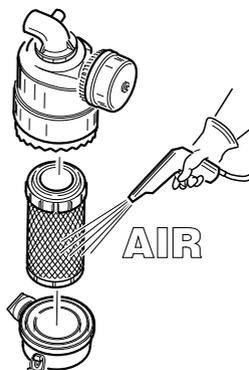
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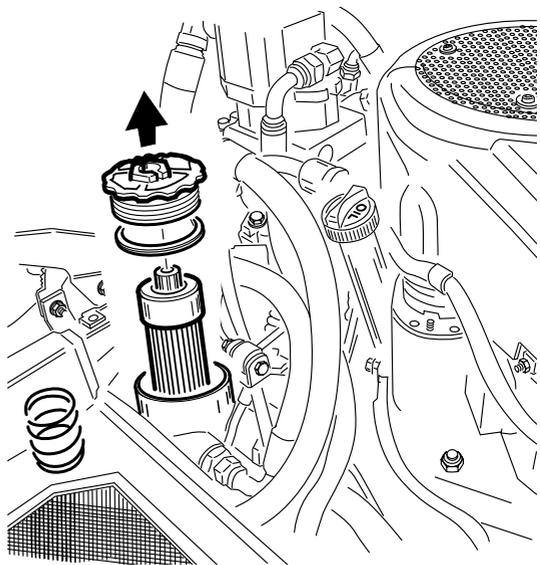
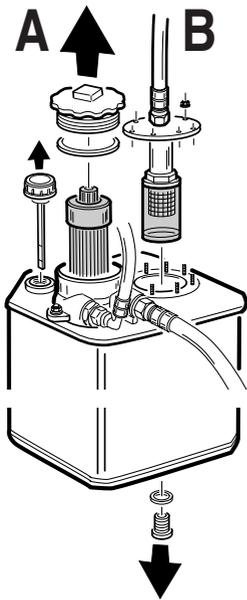
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15.6

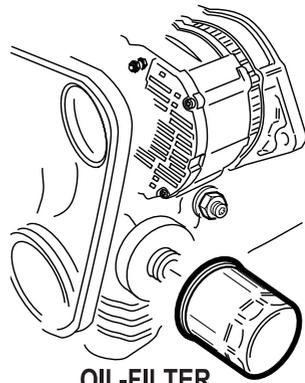


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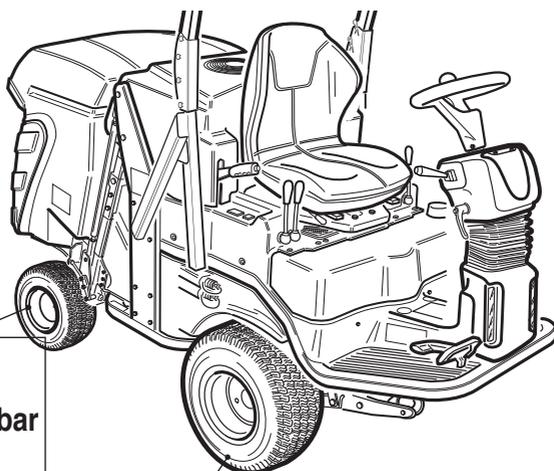
15.8

DIESEL



OIL-FILTER

15.9



15'' - 2,0 bar



91 ± 2 Nm



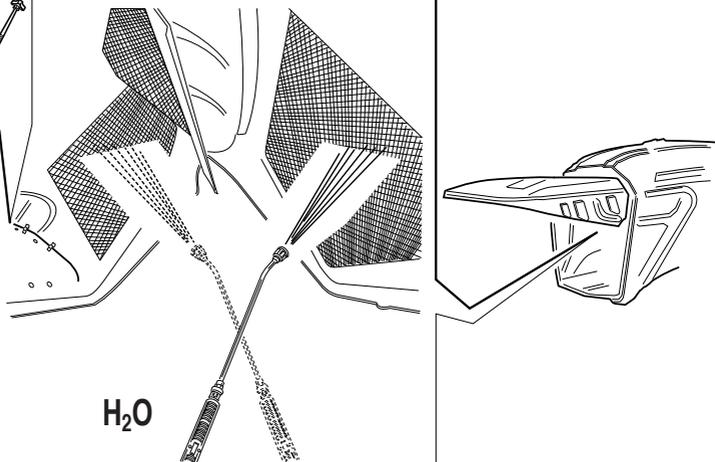
18'' - 2,0 bar



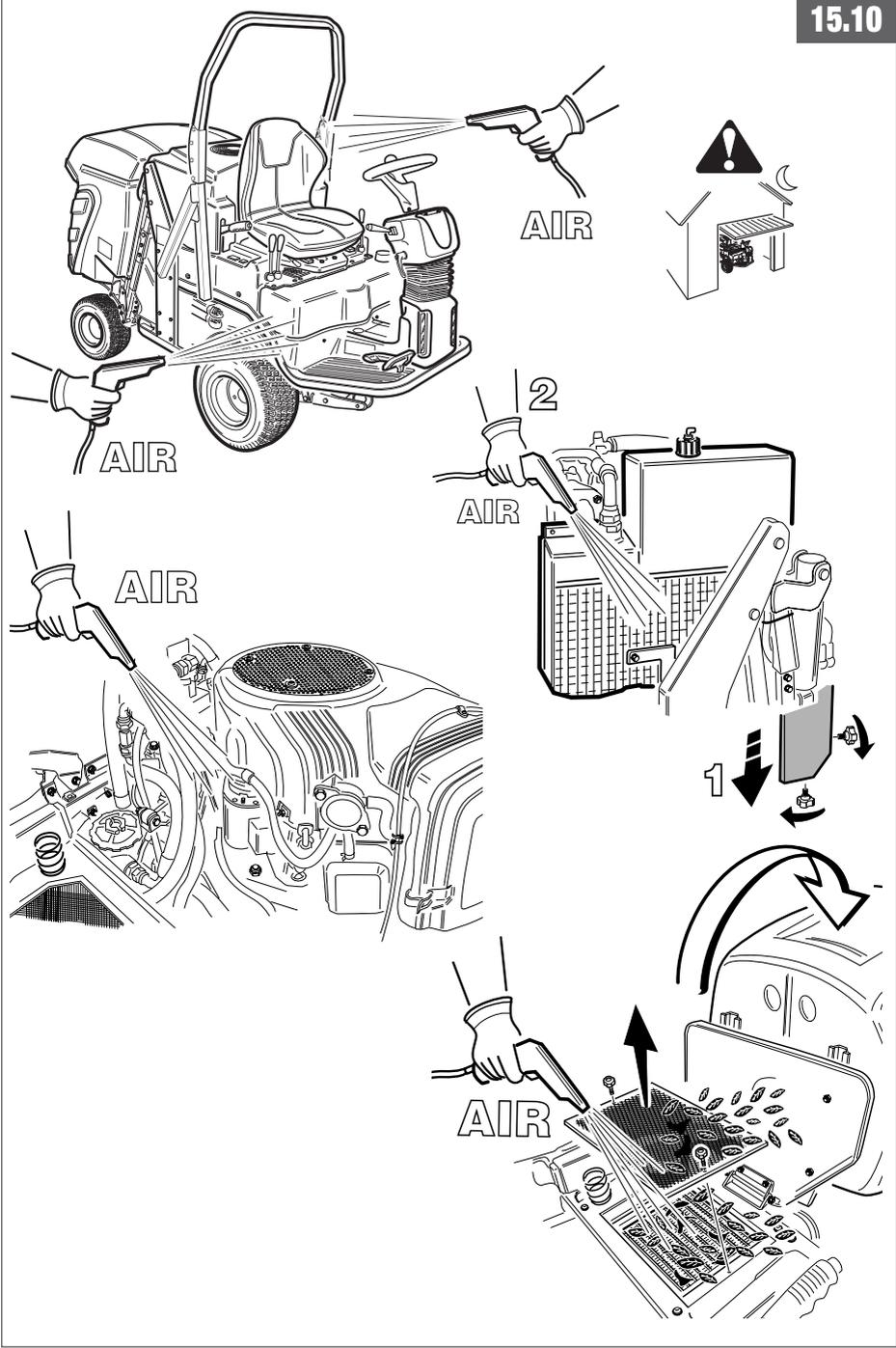
91 ± 2 Nm



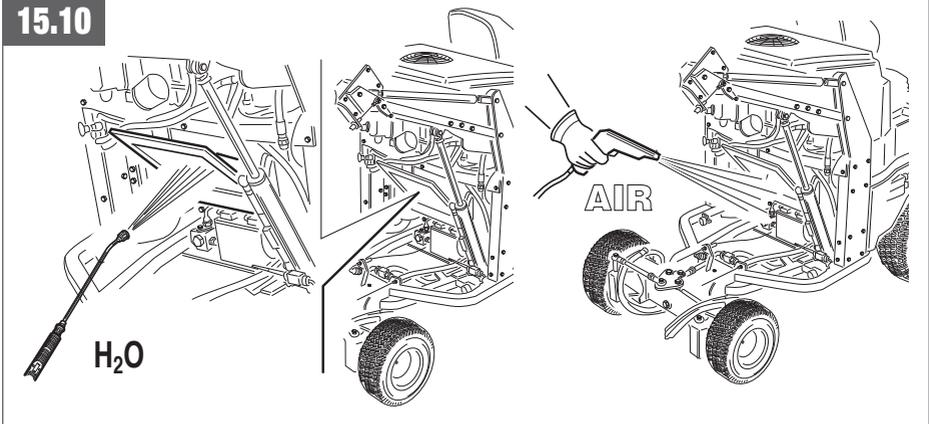
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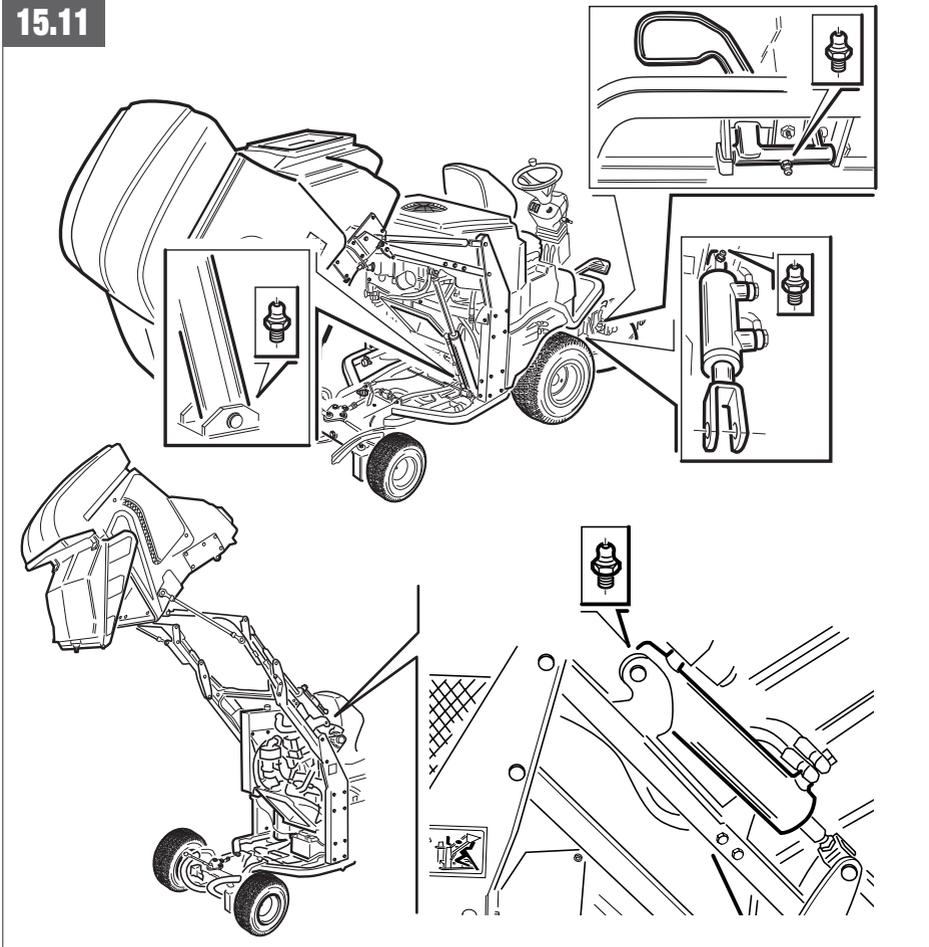
H_2O

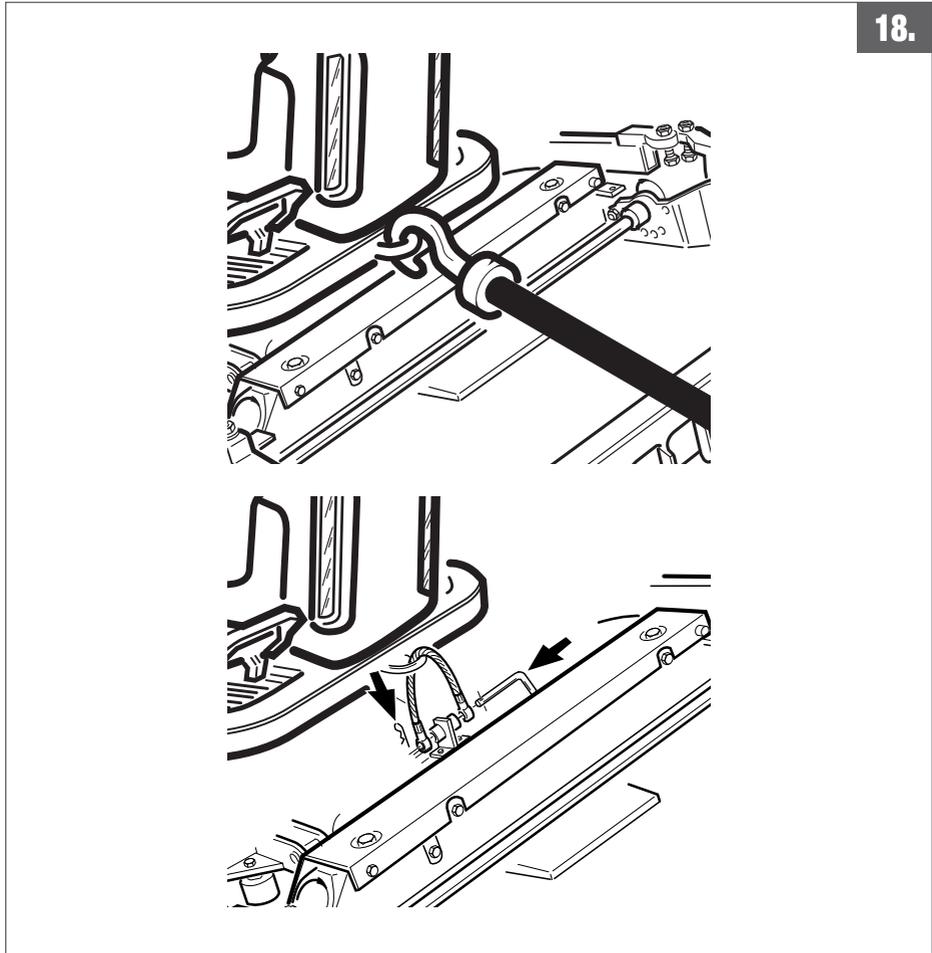
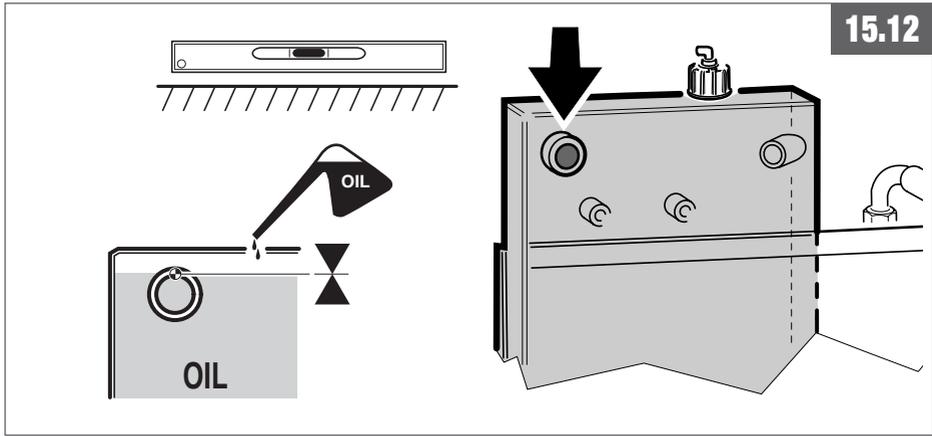


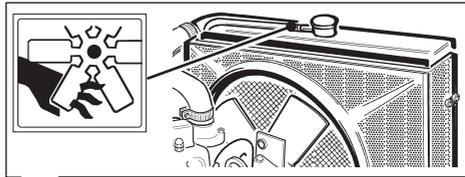
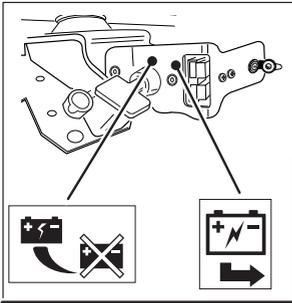
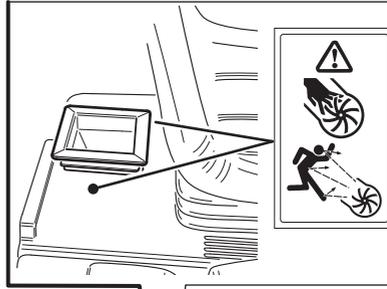
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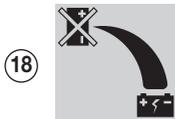
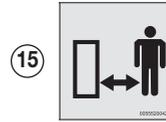
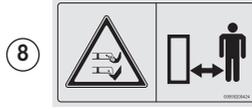
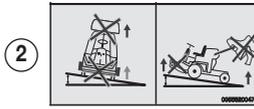
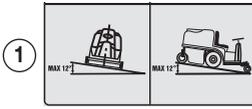


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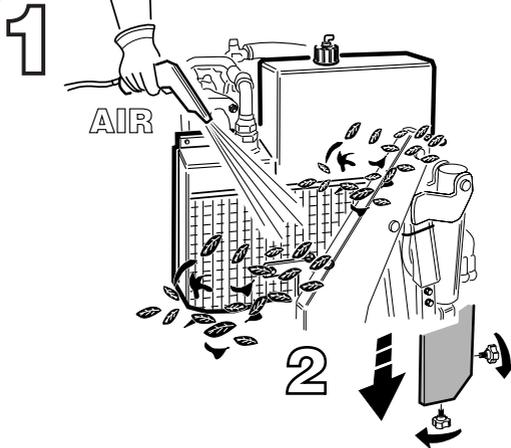
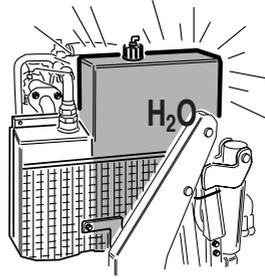
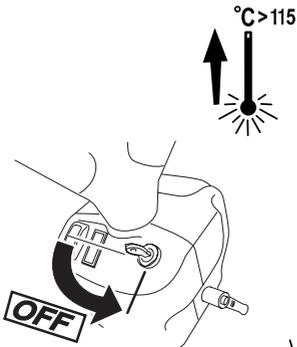
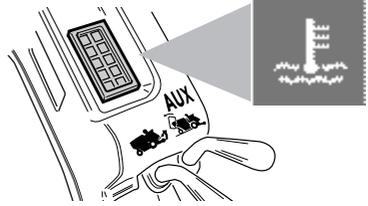
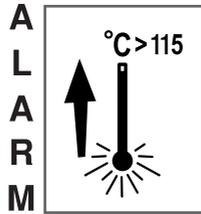
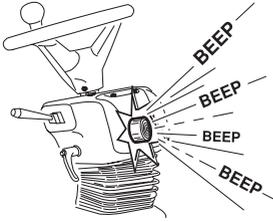
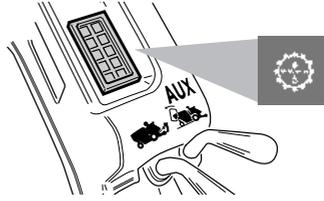
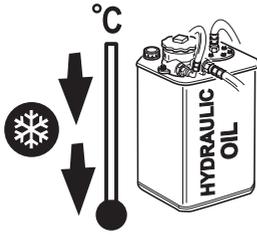


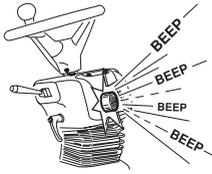




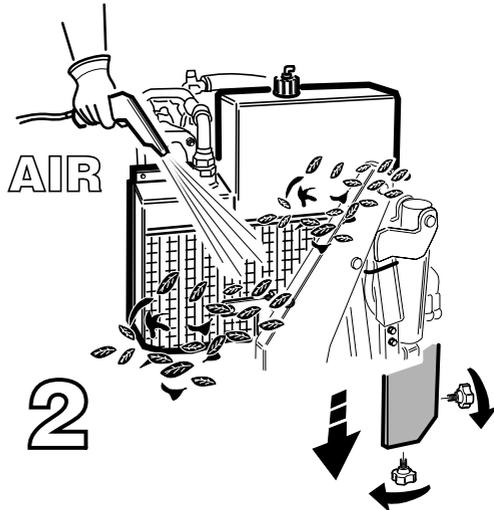
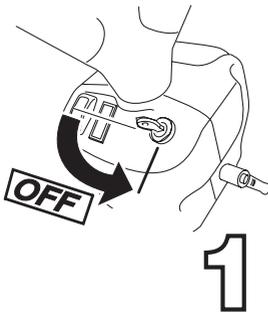
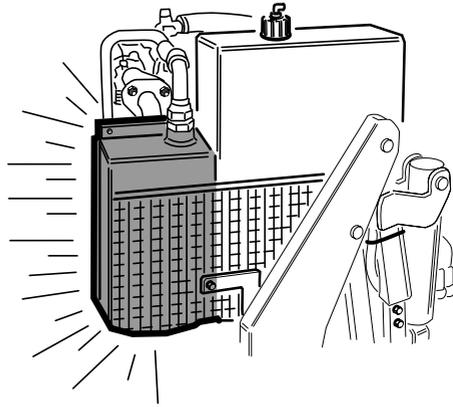
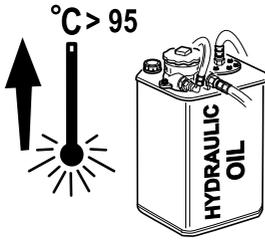
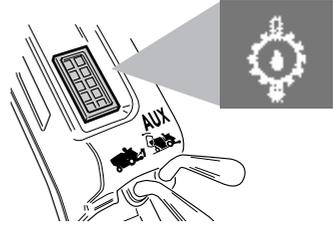
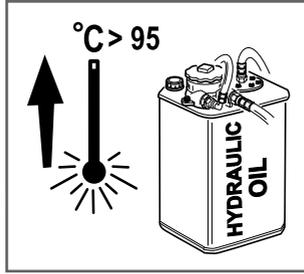


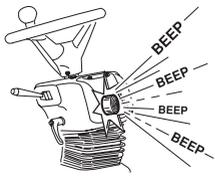
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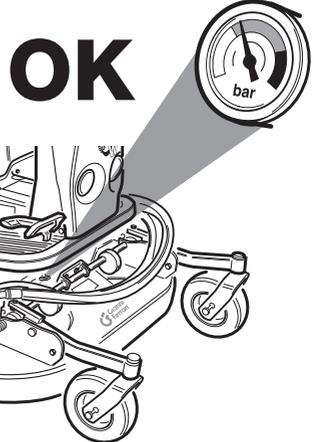
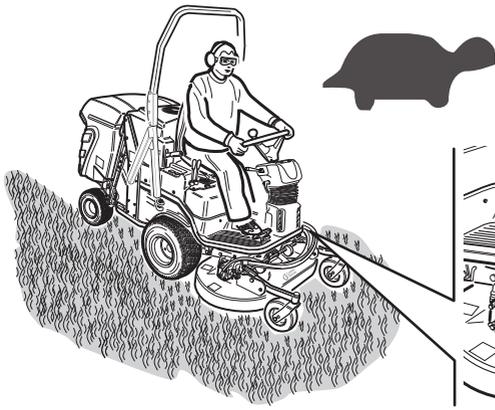
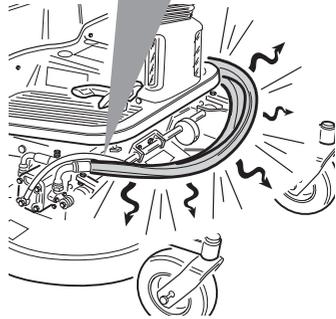
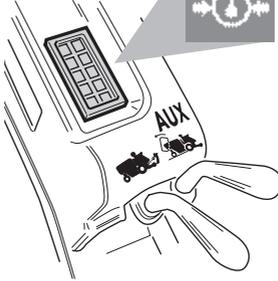


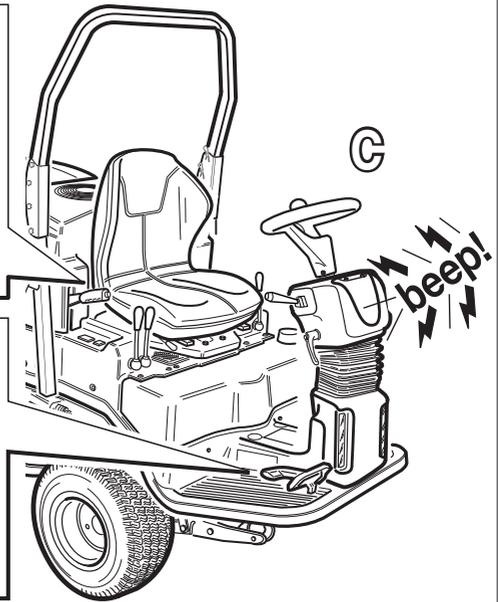
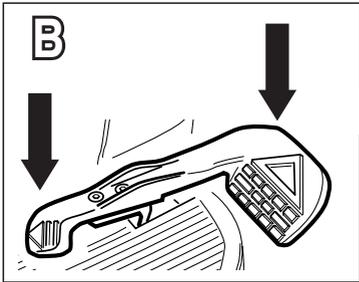
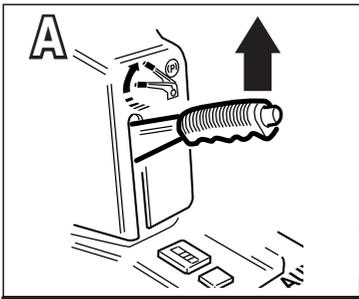
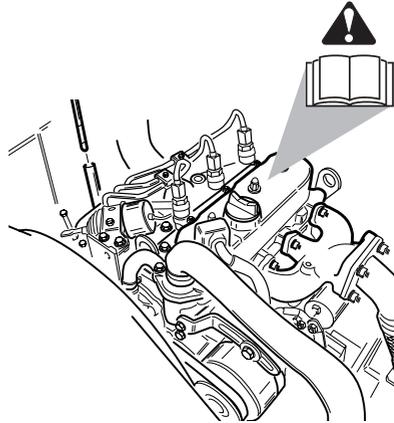
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23.



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