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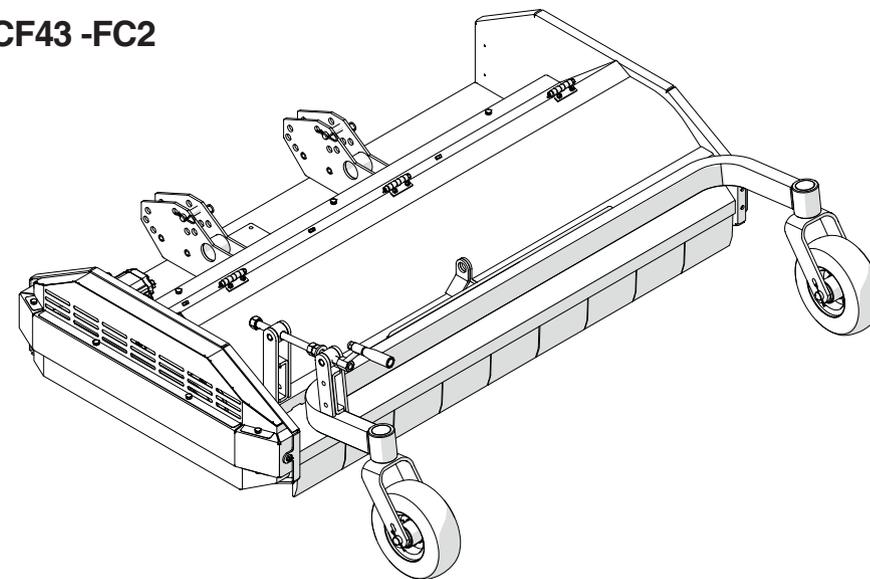
**OPERATOR'S MANUAL
FLAIL MOWER**

**MANUEL DE L'OPERATEUR
BROYEUR À FLEAUX**

**BEDIENUNGSANLEITUNG
SCHLEGELMÄHWERK**

**MANUALE DELL'OPERATORE
TRINCIA**

RCF43 -FC2



*READ AND SAVE THIS MANUAL
MANUEL A LIRE ET A CONSERVER
DIESE ANLEITUNG BITTE SORGFÄLTIG DURCHLESEN UND GRIFFBEREIT AUFBEWAHREN
LEGGETE E CONSERVATE QUESTO MANUALE*

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EN

USE AND MAINTENANCE MANUAL 4

ORIGINAL INSTRUCTIONS

FR

MANUEL D'UTILISATION ET D'ENTRETIEN 19

INSTRUCTIONS D'ORIGINE

DE

GEBRAUCHS- UND WARTUNGSANLEITUNG 34

ÜBERSETZUNG DER ORIGINALANWEISUNGEN

IT

MANUALE D'USO E MANUTENZIONE 50

ISTRUZIONI ORIGINALI

IMAGES AND DRAWINGS 64

ILLUSTRATIONS ET SCHÉMAS

ABBILDUNGEN UND PLÄNE

ILLUSTRAZIONI E SCHEMI

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.

Index

1	General information	6
1.1	To our customers	6
1.2	Note for the owner.....	6
1.3	Equipment orientation	8
1.4	“CE” plate	8
1.5	Serial number	8
1.6	Key safety labels	8
2	Safety regulations	10
2.1	General safety regulations	10
2.2	Intended use.....	11
2.3	Safety distance.....	11
2.4	Non-permissible foreseeable uses	12
2.5	Responsibilities of the owner of the equipment.....	12
2.6	Responsibilities of the operators	13
2.7	Location of the safety labels.....	13
2.8	Personal protective equipment.....	14
2.9	Transport and unloading	14
2.10	Equipment stability	14
2.11	Disposal and scrapping	14
3	Technical characteristics	15
4	Use regulations	15
4.1	Equipment assembly	15
4.2	Mowing	15
4.3	Cutting height adjustment.....	16
4.4	Operating modes.....	16
5	Maintenance	16
5.1	Technical maintenance intervals.....	16
5.2	Ordinary maintenance	16
5.3	Extraordinary maintenance	18
5.4	Machine inactivity	18
6	Fault identification table	18

ENGLISH

1 GENERAL INFORMATION

1.1 TO OUR CUSTOMERS

Before start-up it is necessary to carefully read this manual for a better understanding of the machine and for suggestions indicated in it regarding its use and maintenance.

The machines have been designed and built for the best performance in varied conditions; as always, the quality of the work depends on the performance of ordinary maintenance. For specific information and usage recommendations not contained in this booklet, contact the retailer, who will be happy to answer questions regarding the use and maintenance of these machines.

1.2 NOTE FOR THE OWNER

This manual is an integral part of the Use and Maintenance Manual of FC2 machines. No part of this manual may be reproduced or translated without the written notice from the owner.

This manual contains useful information for correct maintenance. The equipment supplied is reliable. Its performance and life depend on good maintenance and the correct use of the equipment. This manual must be read by all the operators of the equipment and always kept within reach.

Upon delivery, the retailer will provide instructions regarding the general operation of the new equipment. Maintenance personnel are available to provide any clarifications regarding the operation of the equipment.

The retailer has a complete line of original spare parts. The spare parts are carefully manufactured and inspected to ensure a high quality and versatility of the necessary parts. When ordering spare parts, provide the retailer with the model and serial number shown on the CE declaration of conformity.

NOTE: Using original spare parts safeguards the tool and ensures perfect efficiency. Using non-original spare parts or mounting them incorrectly will void the warranty.

The equipment is provided with safety labels with or without precautionary notes to warn the user of the potential hazards that may cause personal injury. Observe all safety messages to avoid potential injuries, or even death.

The equipment has been designed and built in compliance with the quality standards required by the current safety regulations in force. Nevertheless, the risk of accidents cannot be fully eliminated. For this reason, it is essential to comply with the basic safety rules and precautions required. To avoid the risk of injury when using or repairing the machine, it is advisable to read this manual carefully and pay particular attention to the instructions regarding safety, operation and maintenance.

Use this equipment only for the jobs and applications specified in this manual.

Modifications or adaptations without the manufacturer's approval may compromise the equipment's initial compliance with the safety requirements.

Consider the manual as an integral part of the product: check that it is complete and in good condition, keep it near the machine and store it in a protected place that cannot be accessed by unauthorized persons. Pass the manual on to any future user.

The manufacturer is committed to constantly improving its products. Therefore, the manufacturer reserves the right to make improvements or modifications whenever possible, without any obligation to modify or change the previously sold vehicles.

NOTE: The information in this manual is provided on the basis of the data available at the time of writing. Settings, procedures, part numbers, software and other elements may undergo changes that could affect machine maintenance. Check with your dealer to make sure you have all the complete, updated information before operating the machine. All the data provided in this manual are subject to production variations.

IMPORTANT: For technical interventions not covered in this manual, contact one of our authorised assistance centres.

1.3 EQUIPMENT ORIENTATION

The following terms are used in this manual to indicate the direction, view from the seat of the machine operator:

- 1 - Front
- 2 - Right
- 3 - Rear
- 4 - Left

See figure 1.3

1.4 “CE” PLATE

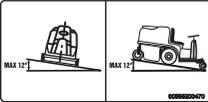
The label is solely indicative, refer to the one affixed to the equipment. See figure 1.4

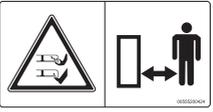
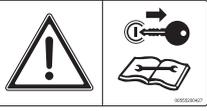
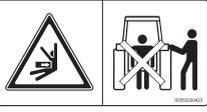
- 1 - Manufacturer’s address
- 2 - Model
- 3 - Weight
- 4 - Year of manufacture
- 5 - Equipment designation

1.5 SERIAL NUMBER

See figure 1.5

1.6 KEY SAFETY LABELS

Symbol	Description	Symbol	Description
	Maximum permitted tilt		Do not go on slopes with elevator open
	Turbine hazard		Elevator hazard
	Blade coupling		Parking brake

Symbol	Description	Symbol	Description
	Machine moving, keep a distance		Keep a distance, moving parts
	Warning sign: Stop the engine, remove the key, read the manual before carrying out repair or maintenance work		Do not approach the machine until all the parts are stationary
	Risk of crushing. Do not stand between the machine and the attachment		Read the instruction manual before using the machine
	Do not put your hands near the transmission shaft		Danger flying objects
	Keep at a safe distance		Do not put your hands near the fan blades
	Do not put your hands near the transmission belts		Battery cut-off switch
	Lifting point		ROPS safety

2 SAFETY REGULATIONS

2.1 GENERAL SAFETY REGULATIONS

The rules provided in this section, despite their obvious partial nature, represent information for workers regarding the dangers they may encounter while carrying out their work.

Always keep in mind that when working with an equipment, whatever it is, the first concern must be for one's own safety and that of others.

To work in complete safety it is essential to know well the nature of the work to be performed, to correctly use the tools and the various materials required for the purpose and to otherwise use one's best judgement. Read the safety messages provided in the introduction of this manual and take into consideration the "**Caution**", "**Warning**" and "**Danger**" notes in the text.

- Read the manual carefully in all its parts. It is strictly forbidden for the equipment to be used by personnel who have not read and understood this manual.
- Every time before use, inspect the entire equipment and pay attention to malfunctions, loose bolts and screws, blades, and other damaged or unsecured parts. It is strictly forbidden to use the equipment if it is not in perfect condition; therefore, before use, carry out the recommended inspection and maintenance operations.
- Familiarise yourself with all the parts and commands of the equipment before starting.
- Only an adult and knowledgeable person may use this equipment. Do not allow children or adolescents to use it. Avoid using the equipment in improper physical conditions.
- Keep persons and things at a safe distance as indicated below.
- Use only parts and accessories supplied by Gianni Ferrari® and do not allow any modification or conversion. For information, contact the retailer.
- Re-apply all damaged, illegible or missing safety and warning decals. Check the list of decals in the specific safety section. Keep decals clean from mud, dirt and dust.
- Stay away from any moving parts.
- Do not use the equipment without guards and covers in the right position and in good condition. Do not use the equipment if the safety devices are not in perfect working order. Never tamper with the safety devices for any reason.
- If you hit or drag an object, immediately stop the equipment, place it on the ground and check it entirely. Before resuming, make sure you have restored the conditions for optimal operation of the equipment.
- When the machine is not in use, lower the equipment and place it on the ground, turn off the engine and remove the key.
- Use the machine and the equipment at a speed compatible with the safety requirements and characteristics of the model used.
- Use the equipment with extreme caution on slopes. Reduce the speed to minimum.
- Wear suitable clothing while using and performing maintenance operations on the equipment: goggles, gloves, safety and non-slip shoes and other protective clothing.
- Use the equipment in good visibility conditions.
- All drivers must receive professional and practical training.
- While working, always wear sturdy shoes and long trousers. Do not use the equipment barefoot or wearing slippers or sandals.
- Thoroughly inspect the area where the equipment will be used and remove all objects that could be thrown by the equipment.
- While reversing, pay close attention to obstacles and in particular to people.

- Before carrying out maintenance operations on the equipment, make sure that it is switched off, resting on the ground and disconnected from the machine.
- Always disengage the power take-off during the machine relocation phases.
- Whenever the user leaves the machine, even temporarily, he/she must apply the parking brake.
- All equipment maintenance, cleaning and assembly / disassembly operations must be performed by expert personnel. The machine must be on level ground, with the PTO disengaged and the parking brake applied. The engine must be switched off and the key must be removed.
- Before carrying out any type of operation on the equipment, make sure the moving parts are completely stationary.
- The employer is responsible for evaluating and adopting the most appropriate personal protective equipment.

2.2 INTENDED USE

For a correct use:

- Follow all the instructions in this operator manual
- Observe the inspection and maintenance works procedures

The "RCF43-FC2" are interchangeable devices for cutting grass and scarifying gardens, sports fields and green areas in general. They are designed to be fitted on machines of the FC2 range. The attachment is designed primarily for professional use. These interchangeable devices can only work if installed on a multi-purpose machine of the FC2 range or other machines explicitly approved by Kubota Gianni Ferrari S.r.l.

Use only the parts and accessories designed exclusively by Kubota Gianni Ferrari S.r.l. for RCF43-FC2 models.

Kubota Gianni Ferrari S.r.l. declines all responsibility if this equipment is mounted on other tractors. This use is strictly forbidden.

2.3 SAFETY DISTANCE

Always keep people and animals at a distance of least 3 m.

2.4 NON-PERMISSIBLE FORESEEABLE USES

Any type of use not envisaged by the manufacturer is considered non-compliant with the intended use and therefore constitutes incorrect use. The manufacturer will be exempt from any liability in case of accidents and the user will be held responsible for all the risks deriving from such use.

EN The list below provides several examples of incorrect uses and behaviours of this equipment that put the life and health of the operator at risk.

- Uses not indicated in the "Intended use" paragraph are not allowed.
- It is not allowed to carry people, things or animals on the equipment.
- It is strictly forbidden to use the equipment without having read this booklet.
- It is strictly forbidden to carry out conversions or alterations on the equipment or equipment not specified in this booklet.
- It is strictly forbidden to use the equipment if it is not in perfect condition; therefore, before use, carry out the recommended inspection and maintenance operations.
- Do not allow children or adolescents to use it.
- Do not use the equipment barefoot or wearing slippers or sandals.
- Never park the equipment downhill.
- It is strictly forbidden to use the equipment if it is incorrectly assembled.
- Do not use the equipment in adverse weather conditions, especially in the presence of lightning.
- Any use of the equipment other than the one specified in this manual is strictly prohibited.
- Tampering with the safety labels is strictly prohibited.
- Only an adult and responsible person is allowed to use the equipment.
- It is forbidden to use the equipment in improper physical conditions.

2.5 RESPONSIBILITIES OF THE OWNER OF THE EQUIPMENT

The owner of the equipment is responsible for:

- Reading the safety chapter to understand the potential dangers to which operators are exposed.
- Ordering the replacements of damaged decals to protect the operators' safety.
- Informing the retailer immediately, in case of misunderstanding or inconsistency between this manual and the machine.
- Training and informing all those who will use the machine regarding its use and potential dangers.
- Making sure that the equipment operators read and understand the contents of the manual, especially the safety chapter.

2.6 RESPONSIBILITIES OF THE OPERATORS

NOTE: “Operators” means everyone who uses the attachment, even under rental or licence.

Carefully read this manual to:

- Carefully read all safety messages.
- Learn the correct operation and use of the equipment.
- Identify the potential risks due to incorrect use of the equipment.
- Perform the correct maintenance of the various components.
- Identify the compatible components for the various works.
- Identify the location of the various commands and their operation.
- Report anomalies that compromise the correct operation of the equipment.
- Perform periodic inspections as specified in the manual.
- Properly carry out only the ordinary maintenance. For extraordinary maintenance or repairs, contact the authorized workshops. The manufacturer declines all responsibility for damage to persons or property resulting from repairs or maintenance carried out privately outside the authorized service circuit.
- Report or replace damaged components as they may constitute potential cause of safety hazards or damage to the vehicle and the environment.
- Use only original spare parts.
- Use the equipment only for its intended use. The manufacturer declines all responsibility for damage to persons or to property deriving from uses other than those foreseen.
- The operator is liable for damage caused to third parties, to himself/herself and to property, due to improper use of the equipment and in violation to the indications provided in this manual.
- When using the machine, the operator must strictly observe the safety rules provided in this booklet, the accident prevention regulations, other generic safety rules, the provisions of the competent authorities.

2.7 LOCATION OF THE SAFETY LABELS

The following safety labels must never be removed from their original position on the equipment. If, for maintenance or deterioration reasons, they must be removed or become illegible, they must be restored by applying them in the correct position as shown in the figure.

See figure 2.7

NOTE: It is recommended ensure that plates and danger symbols are clearly visible; If damaged, replace them with new originals. The new symbols must be applied in the same position as the ones they replace.

2.8 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) is the equipment worn by the worker to protect himself/herself against one or more risks that occur during work, maintenance and repair operations that could threaten their safety or health during work.

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Always use (PPE) during work and maintenance operations, even if the risk of accidents is reduced to a minimum, to prevent those risks that cannot be eliminated, i.e. the "residual risks".

Use the suitable PPE for each specific procedure. Personal protective equipment that may be required includes safety shoes, protective glasses and / or a face guard, helmet, work gloves, respirators and hearing protection.

See figure 2.8

2.9 TRANSPORT AND UNLOADING

The attachment is heavy and can cause serious crushing injuries or damage. Load and unload it with the greatest caution, using three hooks: two attached to the fixing pins of the lifter arms, and one on the relative front eyelet. Transport the attachment on a type-approved trailer. During transportation, hold the attachment in place with the aid of type-approved belts, chains or ropes.

See figure 2.9

IMPORTANT: If the attachment is packed and placed on its pallet, it can be moved with a forklift. Minimum capacity 200 kg

NOTE: Secure the attachment firmly to the vehicle using type-approved devices.

NOTE: Refer to the use and maintenance booklet of the machine the attachment is connected to, for information about the maximum permitted gradient of the loading slope.

2.10 EQUIPMENT STABILITY

During use, pay attention to any hidden bumps, holes or other hidden hazards.

NOTE: Refer to the use and maintenance booklet of the machine the attachment is connected to, for information about stability.

2.11 DISPOSAL AND SCRAPPING



In case of disposal of the equipment, follow the regulations in force in the country of use. Leaving the product in the environment could cause serious damage to the environment. If the product contains batteries it is necessary to remove them before proceeding with the disposal. The batteries must be disposed of separately in other containers, because they contain highly toxic substances. The symbol shown in the figure represents the urban waste bin and it is strictly forbidden to place the equipment in these containers.

3 TECHNICAL CHARACTERISTICS

See figure 3.

Flail mower	RCF43-FC2
Effective cutting width (mm)	1090
Weight (kg)	170
Spatula knife 	95260000015 (W780000200)
Subsoiler knife 	95260000016 (W780000201)
Y-knife 	95181100003 (W780000160)

EN

4 USE REGULATIONS

4.1 EQUIPMENT ASSEMBLY

 **WARNING:** The device must only be fitted when the machine engine is switched off and the parking brake engaged. The operation must be carried out on a stable and flat surface.

The positioning and connection of the device with the machine is manual.

See figure 4.1

Repeat the same operations in reverse order to disassemble the equipment.

4.2 MOWING

 **WARNING:** Do not start the tractor's engine with the equipment cover raised. Do not activate the equipment in any way if the cover is open. Make sure the cover is firmly closed before using the equipment. See figure 4.2.

4.3 CUTTING HEIGHT ADJUSTMENT

See figure 4.3

4.4 OPERATING MODES

- Flail mower lifting lever: refer to the tractor's manual.
- SCARIFYING (A): thatch removal; adjust the working height so that the blades just skim over the ground (~1cm). Remove the thatch raised from the ground with the aid of a lawnmower with collection function.
- AERATING (B): soil cutting; adjust the working height so that the blades cut into the ground (0.5-1cm). For better aeration, make a second series of cuts perpendicular to the first ones.

See figure 4.4

5 MAINTENANCE

5.1 TECHNICAL MAINTENANCE INTERVALS

Main maintenance operations	Frequency				
	Daily	Weekly	Every 100 hours	Every 500 hours	Associated figure
Overall general cleaning	X				5.2.1
Thorough general cleaning		X			5.2.1
Checking the belts		X			5.2.3
Checking the blade condition	X				5.2.2

5.2 ORDINARY MAINTENANCE



WARNING: Perform all maintenance operations with the engine of the tractor turned off and the hand brake applied. The operation must be carried out on a stable and flat surface.

When carrying out maintenance operations, use only original spare parts to ensure maximum reliability for the machine at all times. Before carrying out maintenance operations, read all the instructions provided in the "Safety Regulations" chapter.

NOTE: Periodically check the operation of all the controls and commands of the machine.

5.2.1 CLEANING THE MACHINE

See figure 5.2.1

5.2.2 CHECKING THE BLADE CONDITION

Regularly check the wear status of the blades and of the fixing screws.

Components that show clear signs of wear should be replaced immediately.

IMPORTANT: Check the condition of the blades and the tightening of the fixing screws every time before using the equipment. Using the equipment with a partially or totally missing blade can lead to imbalance that, in time, causes damage to the equipment.

EN

BLADE REPLACEMENT

To replace the blades, remove in the following order:

- 1 - Switch off the machine and apply the parking brake.
- 2 - Rest the flail mower on the ground.
- 3 - Remove the fixing screw of the door stopper.
- 4 - Lift the door.
- 5 - Release the pin-magnet lock (1) by positioning the relative tool (2) on the left-hand side.
- 6 - Replace the blade (3 or 4) with a new one.
- 7 - Fix the new knife by inserting the pin-magnet lock (1) previously removed.

See figure 5.2.2

NOTE: Using original spare parts enforces and ensures perfect machine efficiency.

5.2.3 BELT CHECK

See figure 5.2.3

5.2.4 FRONT GUARDS REPLACEMENT

See figure 5.2.4

5.2.5 CHANGE THE BELT IF IT IS WORN

NOTE: Perform the belt change steps with suitable equipment and clothing to avoid injury.

See figure 5.2.5

5.3 EXTRAORDINARY MAINTENANCE

IMPORTANT: For extraordinary maintenance, contact an authorized service workshop only.

5.4 MACHINE INACTIVITY

If the equipment will not be used for a long time, it is advisable to carry out some operations to guarantee its efficiency when reusing it and also the operating life of equipment:

- Clean thoroughly.
- Carry out a general check of the condition of the body, of the mechanical parts of the flail mower.
- If necessary, perform the “ordinary maintenance” operations described above.
- Park the equipment on a flat surface in a dry and ventilated area, covering it with a suitable, non-waterproof protective cover.

6 FAULT IDENTIFICATION TABLE

If the problem is not listed in this table, contact your authorized dealer. If the problem persists, after you have checked all the potential causes listed in the table, contact the authorized dealer.

Problem	Cause / Solution
Vibrations	<ul style="list-style-type: none">• Check that all the blades are present or check the integrity of the blades and replace the damaged blades.• Make sure the belt is in good condition. If it is damaged, replace it.• Check that the rotor bearings are not damaged.

**IMAGES AND DRAWINGS
ILLUSTRATIONS ET SCHÉMAS
ABBILDUNGEN UND PLÄNE
ILLUSTRAZIONI E SCHEMI**

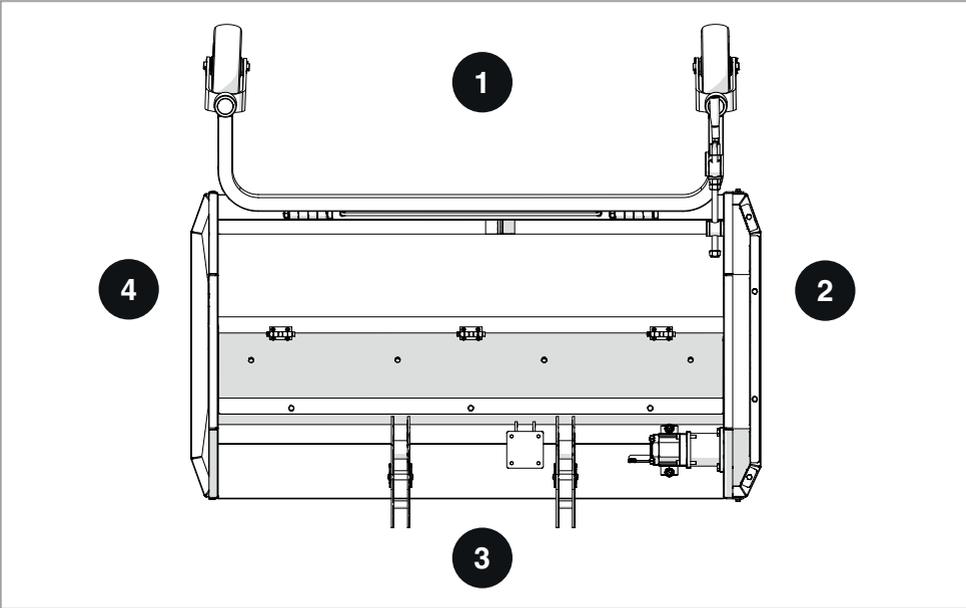


Fig. 1.3

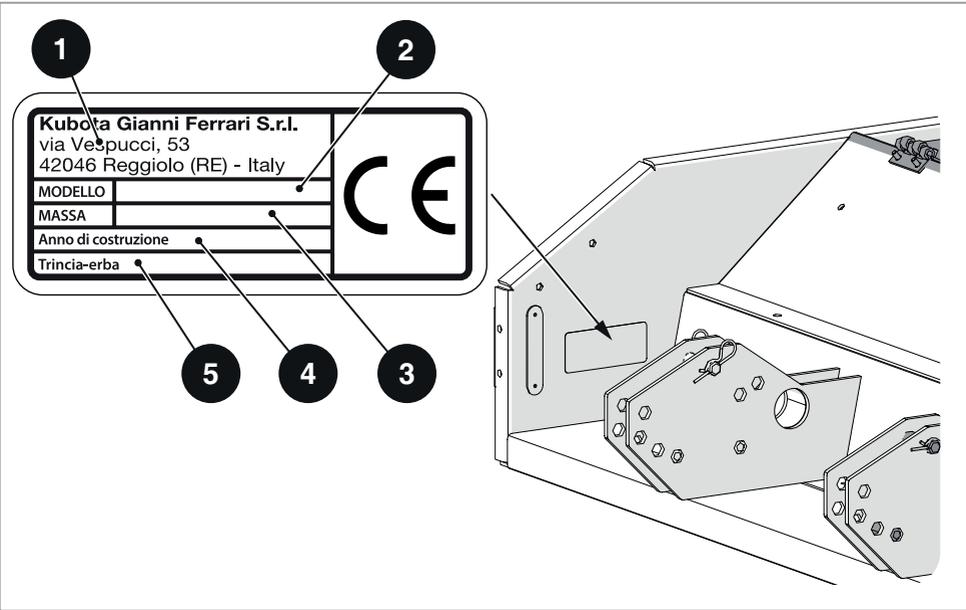


Fig. 1.4

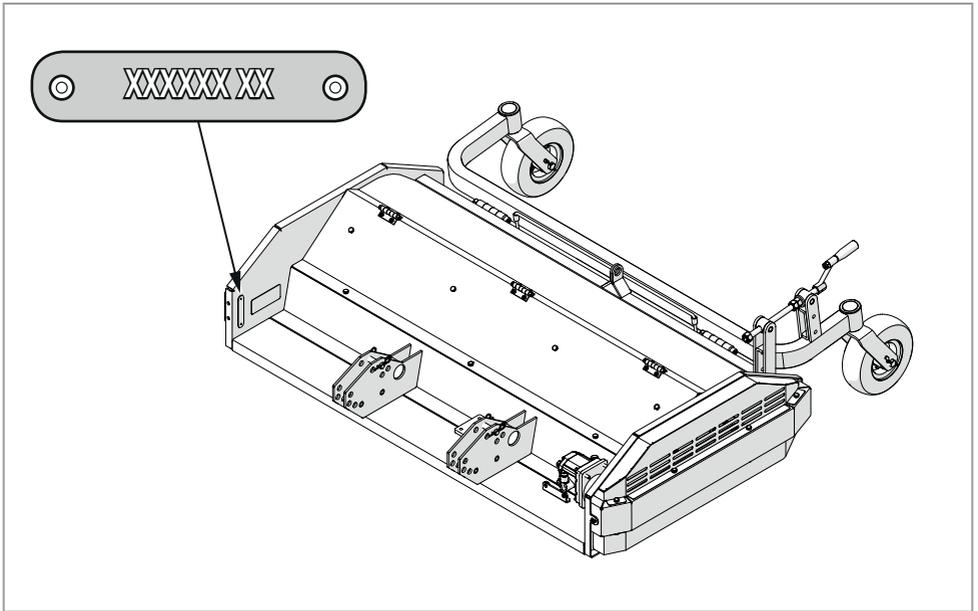


Fig. 1.5

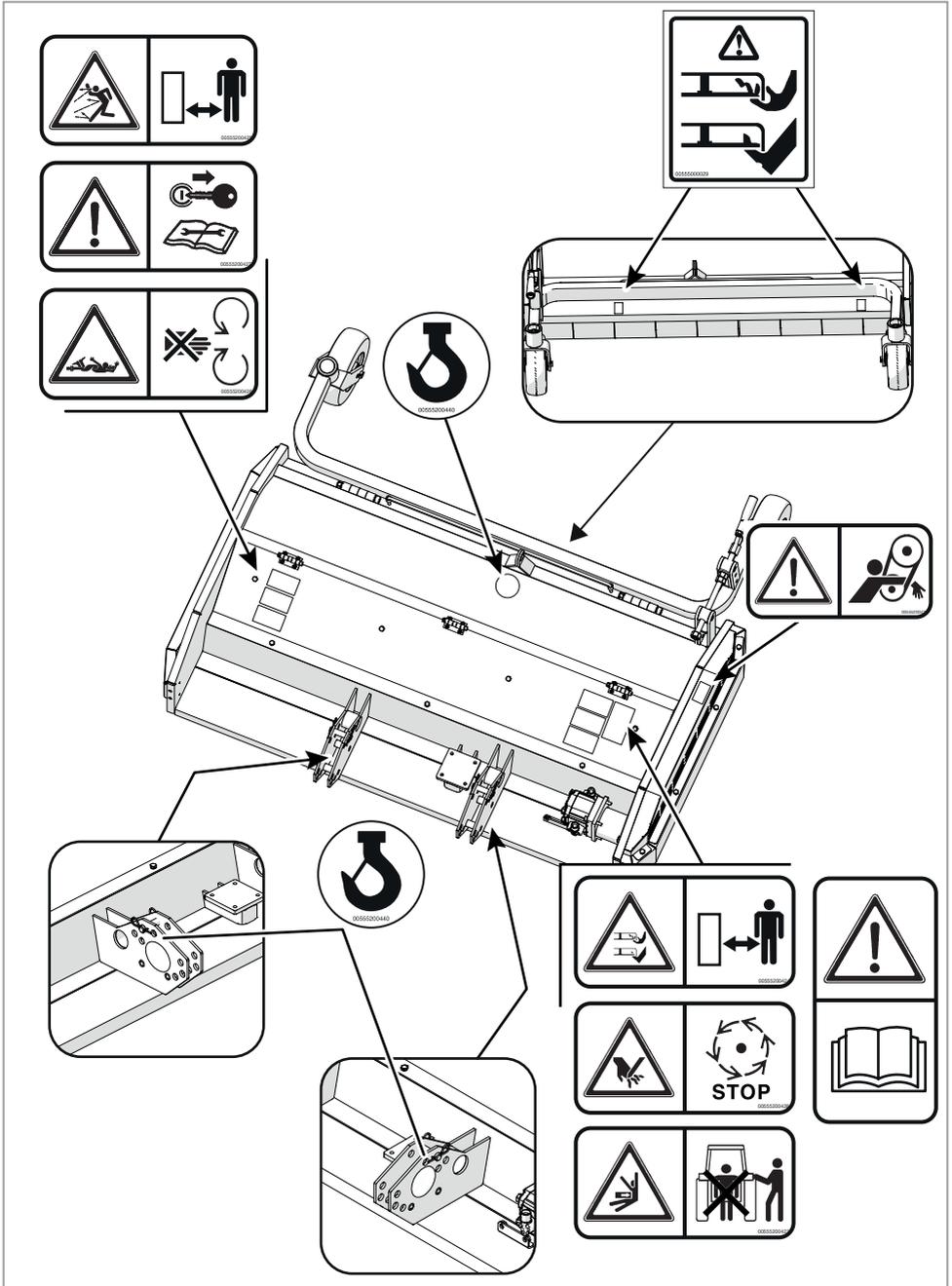


Fig. 2.7



Fig. 2.8

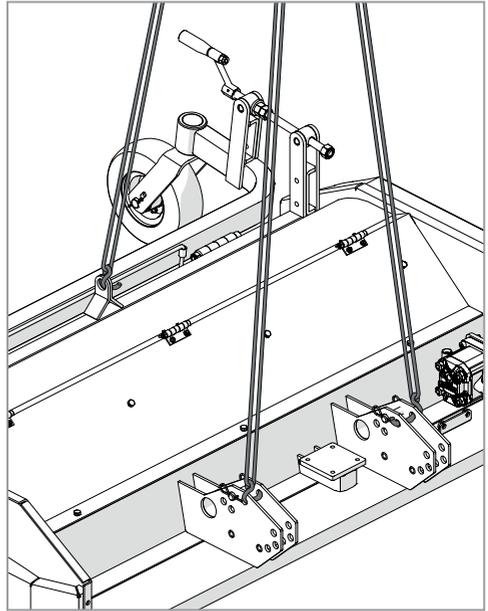


Fig. 2.9

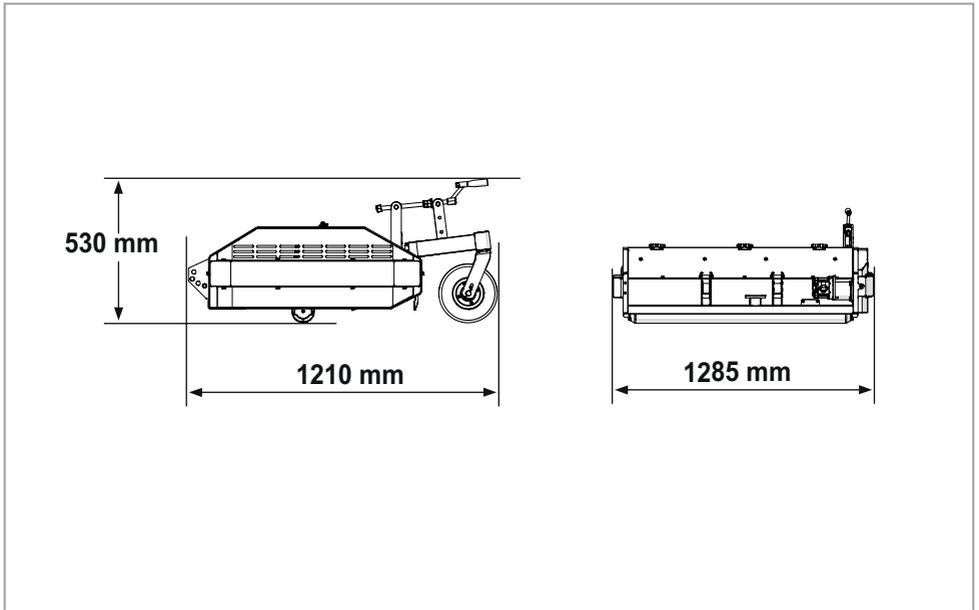


Fig. 3

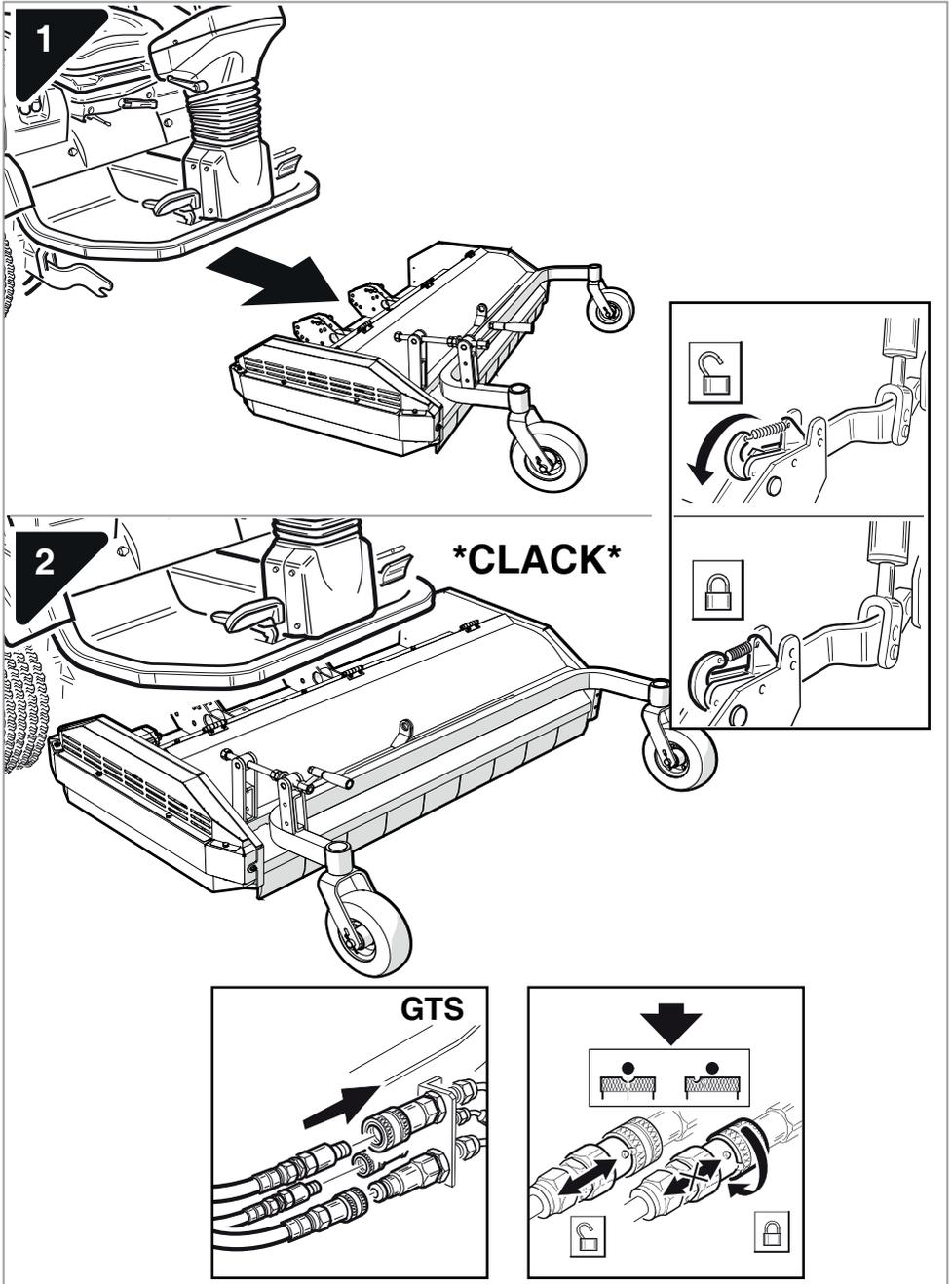


Fig. 4.1

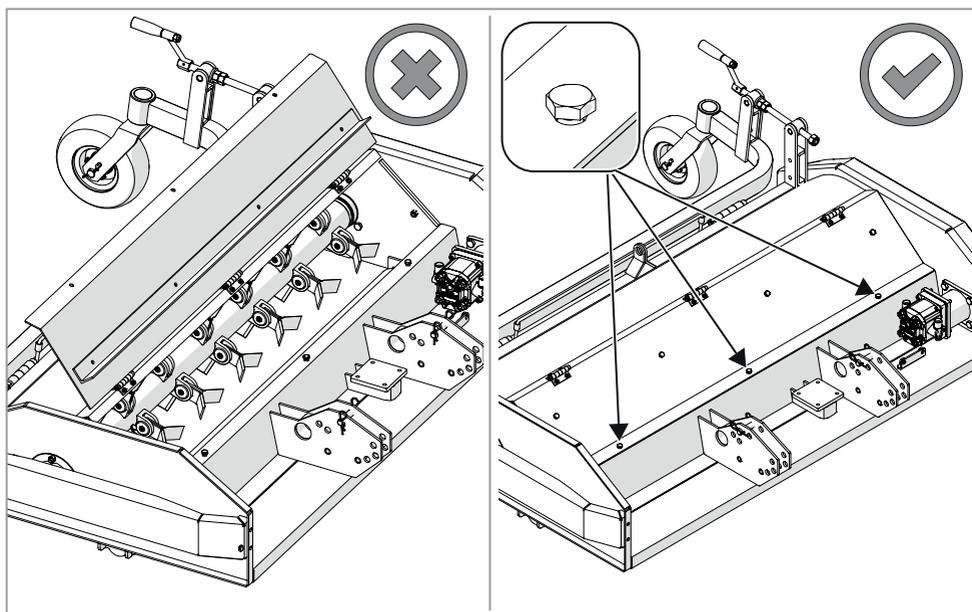


Fig. 4.2

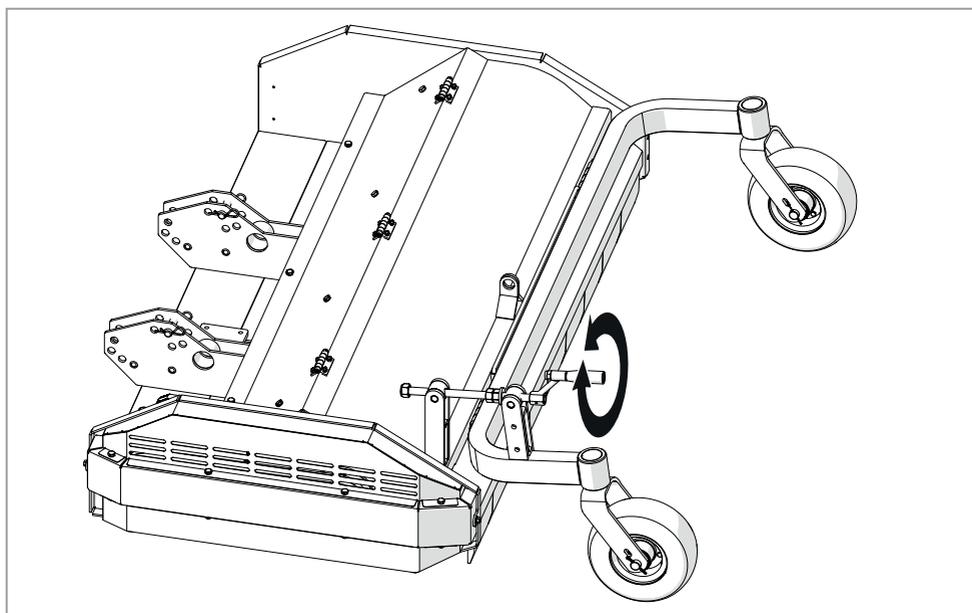


Fig. 4.3

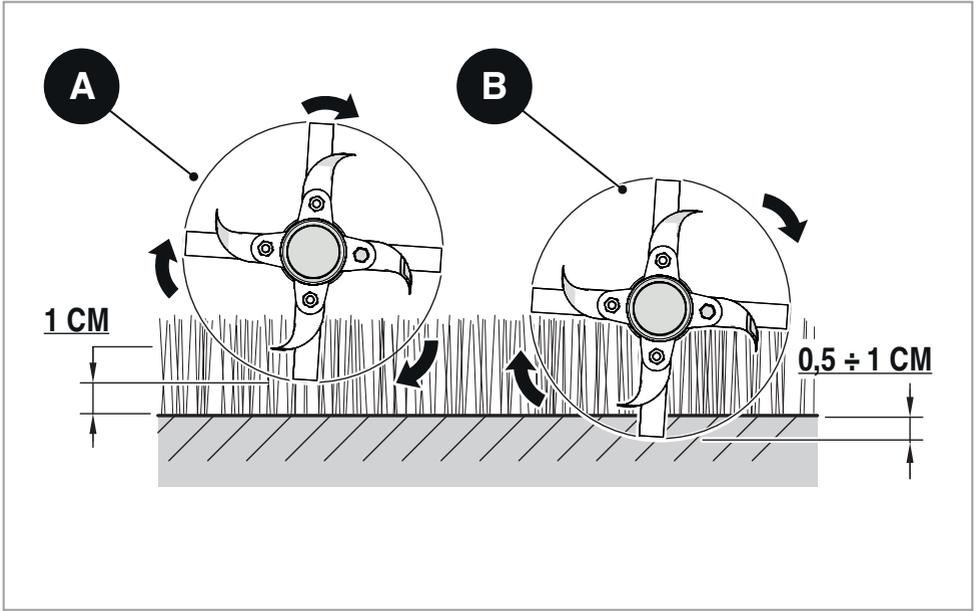


Fig. 4.4

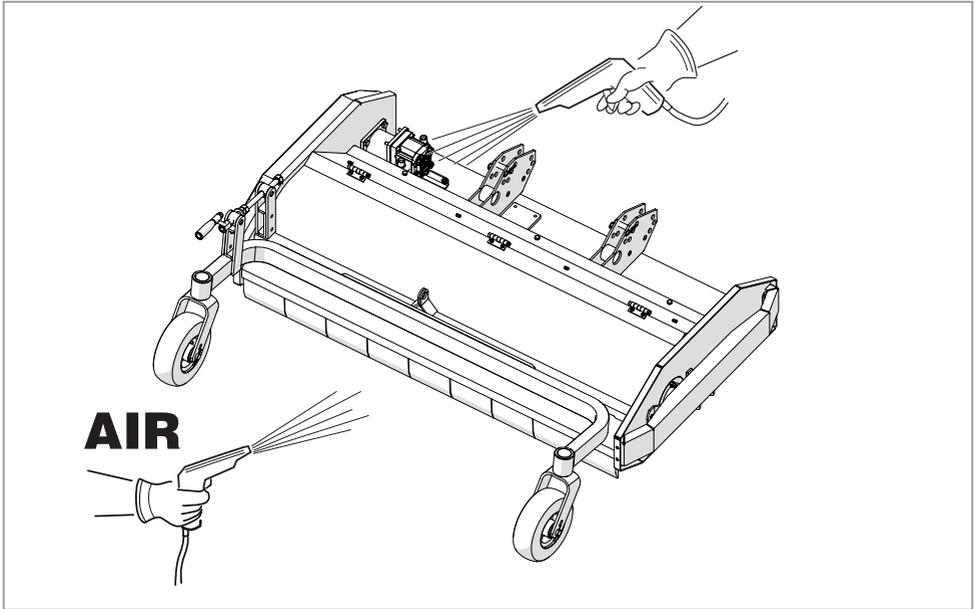


Fig. 5.2.1

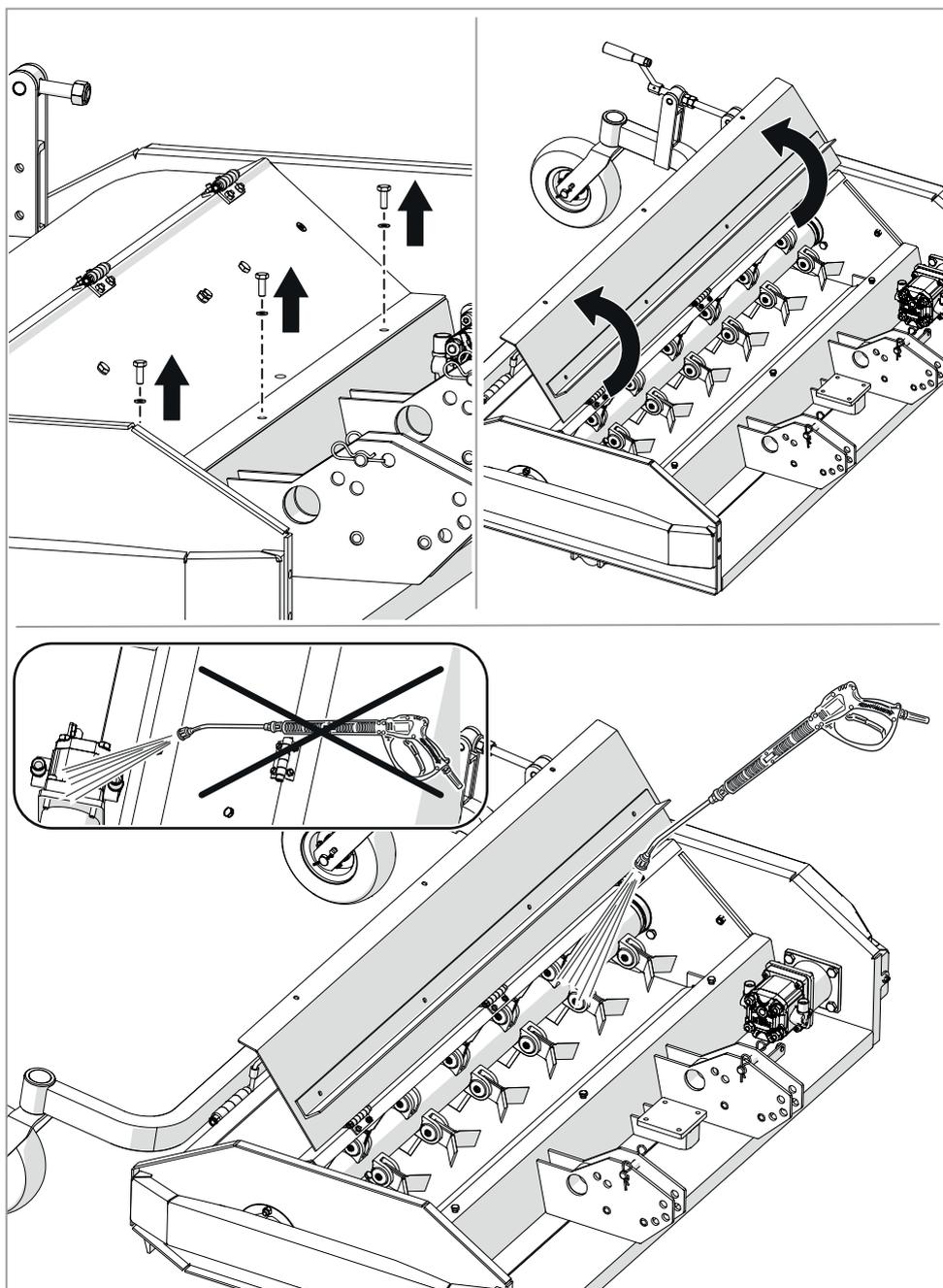


Fig. 5.2.1

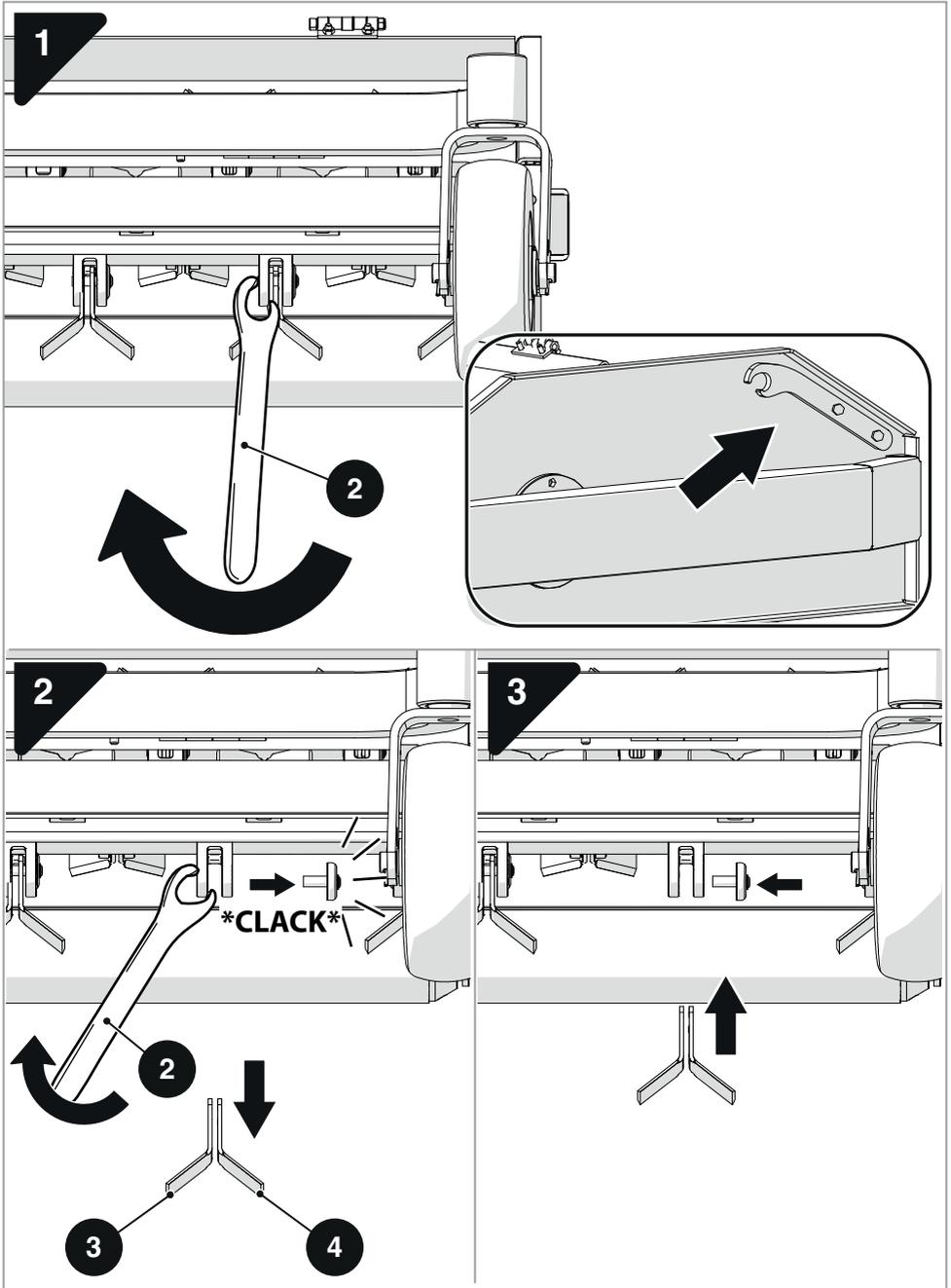


Fig. 5.2.2

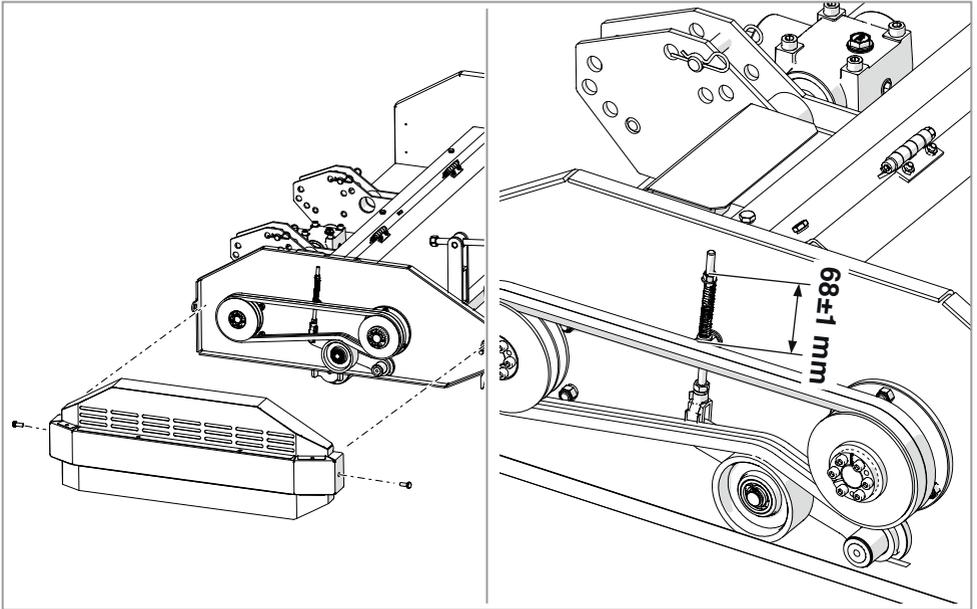


Fig. 5.2.3

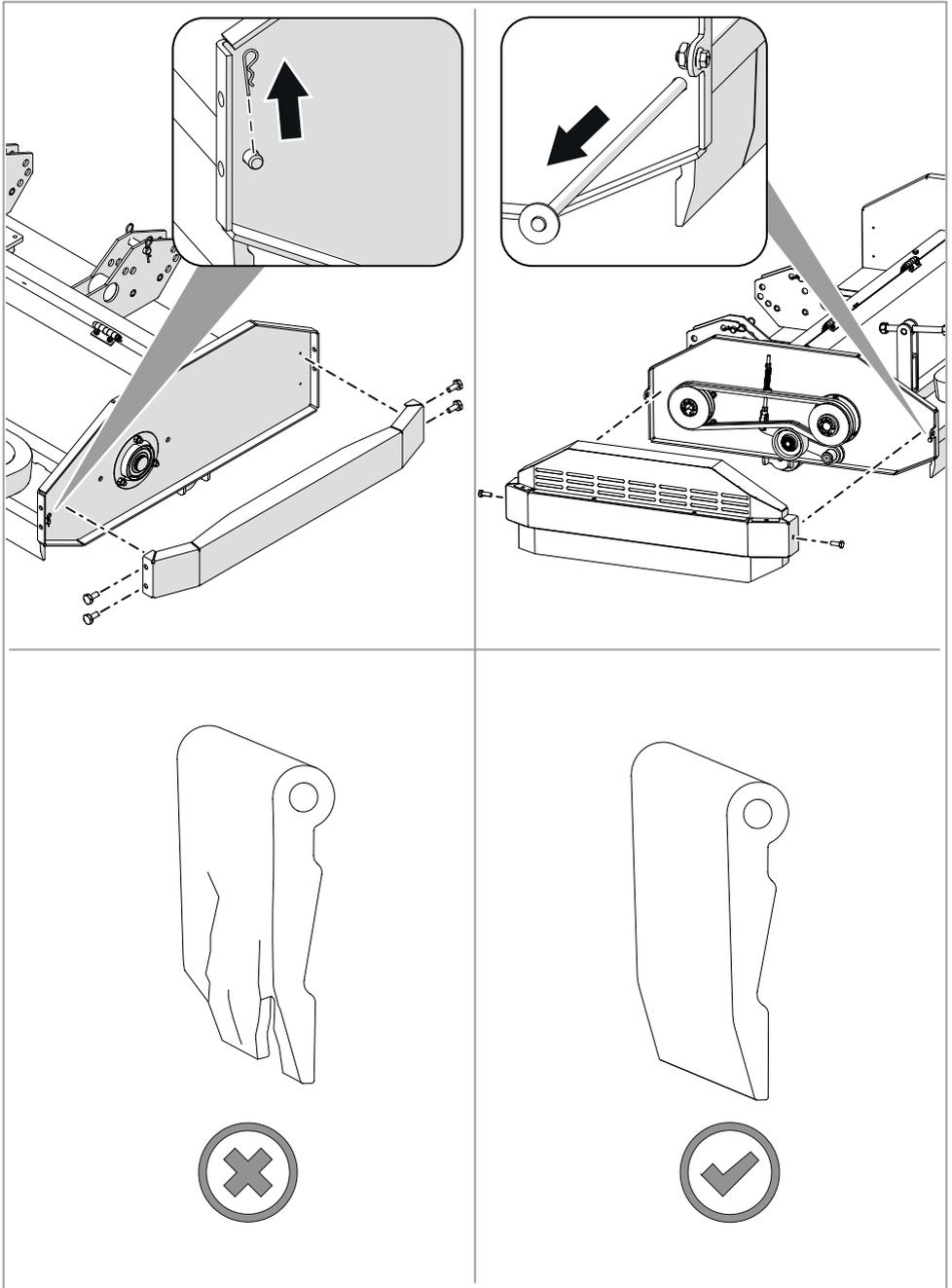


Fig. 5.2.4

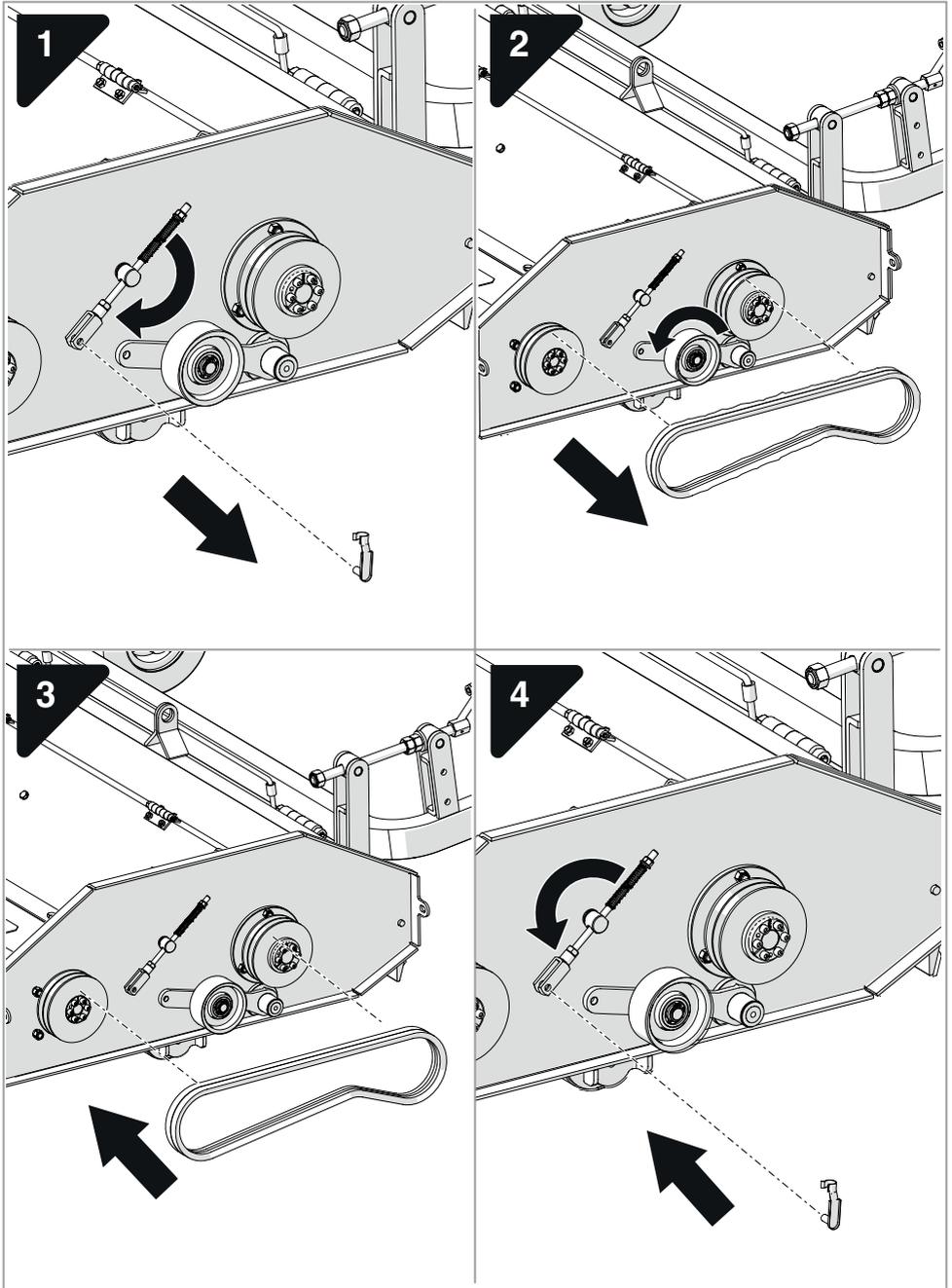


Fig. 5.2.5