LW130

Self-propelled compact wheel loader equipped with a multi-functional quick connector

Operator's Manual



Table of Contents

1 Document Identification
1.1 Model
1.2 Identification
1.3 Glossary
1.4 Abbreviations
1.5 Consultation Records
1.6 Document Recipient
1.6.1 Authorized Operators
1.7 Warranty
2 Machine Identification
2.1 Copy of CE Conformity Declaration
2.2 Model
3 Important Safety Information
3.1 General Information
3.2 Residual risks
3.3 Transportation and Lifting
3.4 Maintenance
4 Machine Description
4.1 Main Components and Their Functions
4.2 Seats for Authorized Operators
4.3 Control devices
4.3.1 Control panel
4.4 Safety and protective devices
4.5 Intended use
4.6 Usage restrictions and technical data
4.6.1 Machine
4.6.2 Engine
4.7 Load Chart
4.8 Hydraulic Flow/Engine Speed Chart
4.9 Reasonable and foreseeable misuse
4.10 Safety Signs
4.11 Emissions
4.11.1 Noise Level
4.11.2 Vibration
4.12 Personal protective equipment
5 Transportation and Handling
5.1 Transportation
5.2 Lifting
5.3 Operation
5.4 Storage
6 Assembly and installation
6.1 Assembly
6.2 Options
6.3 Accessories
6.3.1 Available accessories
6.3.2 Assembly of Accessories
7 Pre-startup checks
8 Operation
8.1 Adjustment
8.1.1 Adjusting the driver's seat
8.2 Pre-ignition checks
8.3 Normal operation
8.3.1 Getting on the vehicle
8.3.2 Starting
8.3.3 Operation
8.3.4 Assembly of accessories
8.3.5 Removal of accessories
8.3.6 Use of accessories
8.3.7 Shutdown of the machine
8.3.8 Fueling
8.4 Functions/Special Conditions
8.4.1 Machine instability
8.4.2 Out of control
8.4.3 Block machine with lifting arms
8.4.4 Drag machine
8.4.5 Emergency start
9 Maintenance
9.1 General warnings
9.2 Machine safety status
9.3 Lifting arm installation safety block
9.4 Opening the Engine Cover
9.5 Regular maintenance
9.6 Regular maintenance
9.7 Intervention on the machine
9.7.1 Machine cleaning
9.7.2 Check tire pressure
9.7.3 Check structural integrity and tighten bolts
9.7.4 Battery check
9.7.5 Hydraulic oil level
9.7.6 Hydraulic oil filter replacement
9.7.7 Hydraulic oil replacement
9.7.8 Lubrication points
9.8 Engine maintenance
9.9 Troubleshooting
10 Spare parts
11 Accessories
11.1 Warranty Terms
11.1.1 General Provisions
11.1.2 Regular Maintenance
11.1.3 Exclusions from Warranty
11.1.4 Warranty Expiration
11.2.1 Notes



⚠ Warning

Before operating the machine, the operator must read and understand all instructions in this manual. This manual must be carefully stored inside the machine until it is scrapped.

Instructions

Dear Customer

First, we sincerely thank you for choosing to purchase **our company's "Self-Propelled Multi-Function Loader LW130."**

We are confident that, with the technical standards of our products and our ongoing efforts, we will meet your expectations. We are committed to continuously improving our capabilities to address the evolving challenges in technology, production, and trade. We are confident that we can meet all your future work requirements and are pleased to offer our full experience and expertise to address any questions you may have.

1 Document Number: Identification Information

1.1 Document Title

This document is referred to as the "Manual" (hereinafter referred to as the "Manual"). This Manual has been prepared in accordance with the necessary requirements of Safety Requirement 1.7.4 of Annex I



⚠ Note

This Manual must always be carried by authorized operators and kept in a safe place near the machine, ensuring it remains intact. If the equipment is transferred to another user, this Manual must be delivered along with the equipment.

It is recommended that you copy the identification information of this document: code, version, and revision number (see cover page) to request a copy from the manufacturer in case the Manual is lost or damaged. This Manual reflects the technical status and expertise of the machine at the time of its release and may be revised due to subsequent experience updates; such revisions shall not be deemed insufficient.

of the Machinery Directive 2006/42/EC.

1.2 Identification

This manual is identified by the following data listed in the table and notes on the cover:

- Language abbreviation.
- Original manufacturer's manual or its translated version.
- ISO 7000 symbols.
- Identification code (ID).
- Version.
- Revision (or revision date).

EN	Translation of the original instructions.		
	Code	Issue	Revision
	CM170001EN	01.03.17	03 (July 11, 2018)

This manual is **a translation of the original manual** identified by the following markings:

IT	Original manual		
	Code	Version	Revision
	CM170001	January 10, 2017	03 (July 11, 2018)

1.3 Glossary

Glossary	Definition
Basic machine (subsequent machine)	A self-propelled loader equipped with a removable multi-purpose frame, designed to perform various functions by replacing attachments.
Original interchangeable attachment (hereinafter referred to as "attachments")	According to Article 2(b) of the Machinery Directive 2006/42/EC, this refers to: an attachment that, after the machinery or tractor has been started, is assembled by the same authorized operator with the machinery or tractor after the machinery or tractor has been started, to change the function of the machinery or introduce a new function, and the attachment itself is not considered a tool. Produced by the manufacturer and sold by the manufacturer or its authorized dealer. (**See Section 6.3**).
Original equipment manufacturer (OEM) optional accessories (hereinafter referred to as OEM parts)	Accessories produced by the manufacturer and sold by the manufacturer or its authorized dealers (**see Section 6.2**).
Compatible accessories	Accessories that can be installed on a specific basic machine (**see Section 6.3.1**).
Assembly	The process of assembling accessories onto a base machine, including mechanical, hydraulic, and electrical (if applicable) connections.
Authorized dealer (hereinafter referred to as "dealer")	A dealer authorized by the manufacturer. Customers must contact the dealer for assistance, emergency maintenance, or to purchase parts or original manufacturer interchangeable accessories.

1.4 Abbreviations

Approx.	Approx.	**N.**	Number
Chapter	Seal	**Page**	Page
Personal protective equipment	Personal Protective Equipment	**Paragraph**	Paragraph
Right	Right	**Position**	Position
For example	Example	**Reference**	Reference
Figure	Figure/Figure	**Left**	Left
Hour	Time	**Table**	Table
Maximum	Maximum	**See**	View
MIN.	Minimum	**Quantity**	Quantity
Minimum	Minutes	**etc.**	etc.

1.5 Consultation Notes

	Bold text: It highlights the same key sentences in the text and references to paragraphs, charts, tables, etc.
	General hazard symbols: It highlights risks that pose a threat to the health and safety of authorized operators or risks of damage and malfunction to the machine.
	General obligation markings: It indicates a rule (the obligation to perform a specific operation).
	General prohibition signs or specific signs: They emphasize that a specific operation is prohibited.
	EX Hazard Signs: It emphasizes the presence of an explosion hazard in areas where explosive gases are present.
	Crossed-out trash can: It emphasizes that electrical and electronic equipment waste must not be discarded in trash bins.
	To ensure safe use of the machine, it is essential to carefully read and understand the entire contents of this manual.
	To ensure safe use of compatible equipment with the machine, it is essential to carefully read and fully understand the entire contents of this operating manual.
	Symbols marked at the beginning of each chapter indicate that the authorized operator **(see Section 1.6.1)** is permitted to perform the specified operation.
	⚠ Danger
	Indicates a high-risk hazard that, if not avoided, may result in death or serious injury.
	⚠ Warning
	This IT issue poses a moderate risk of danger. If not avoided promptly, it may result in death or serious injury.
	⚠ Caution
	IT has highlighted a low-risk hazard that, if not avoided, may result in minor or non-serious injury.

1.6 Recipients of this document

This manual is intended solely for operators authorized to use and maintain this machine in accordance with specific technical proficiency requirements.

1.6.1 Authorized operators



⚠ Warning
Authorized operators must only operate the machine within their area of expertise. Before performing any operations on the machine, authorized operators must ensure that they are in good physical and mental condition to ensure compliance with safety operating conditions at all times.

	Responsible Person He is a professionally trained operator who strictly adheres to the current national laws and regulations governing the use of equipment, holds the necessary qualifications to operate the equipment, and is authorized to perform the following tasks exclusively: • Operating procedures. • Normal use. • Normal maintenance. All operations must be carried out strictly in accordance with the instructions outlined in this manual.
	Designated operator This operator is a professionally trained individual who is at least 18 years of age, strictly complies with all applicable national laws and regulations governing the use of the equipment, ensures the safe transportation and operation of the equipment and/or its components, and uses the general hand signals specified in European Directive 92/58/EEC.
	Authorized technical personnel He is a qualified technical personnel designated by the dealer, with specialized knowledge of the machine, and is qualified to provide necessary technical support, routine and special maintenance, and other operations not mentioned in this manual.

Table 1

1.7 Warranty

For warranty conditions, please refer to **Section 11.2**.

If it is determined that the parties have no intention of submitting disputes arising from the supply contract to arbitration, or in any other case where a decision by a court of general jurisdiction is required, the Court of Vicenza shall have exclusive jurisdiction.

2 Machine Identification

2.1 CE Conformity Declaration Copy

We declare that this machine has been correctly identified		
Name	Self-propelled multi-purpose loader	
Model	LW130	
Serial Number	.....	
Complies with the following directives		
2006/42/EC	Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, amending Directive 95/16/EC (recast)	
2014/30/EU	Directive on the harmonization of the laws of Member States relating to the electromagnetic compatibility of equipment, adopted by the European Parliament and the Council on February 26, 2014 (recast).	
2000/14/EC	Directive 2000/14/EC of the European Parliament and of the Council of 8 May 2000 on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.	
	Designated bodies	**VERICERT SRL** - Certification and Testing 19 Via San Cavina - 48100 Ravenna - Italy Designated Body Number 1878
	Assessment Procedure	Internal production control, including assessment of technical documentation and periodic inspections Procedures as described in Annex VI
	Guaranteed Sound Power Level (L_{WA})	100 decibels
	Measurement of sound power level (L_{WA})	97 dB
	Net installed power	16.8 kW @ 3600 rpm
	Test engine speed	1800 rpm
Compliance with major regulations and applicable standards		
EN 12100-1-2:2003 / A1:2009	Mechanical safety. Basic concepts, general principles for design	
EN 474-1:2006 / A1:2009	Earth-moving machinery. Safety. Part 1: General requirements	
EN 474-3:2006 / A1:2009	Earth-moving machinery - Safety - Part 3: Requirements for loaders	

2.2 Designated

The machines covered by this standard are as follows:

Self-propelled multi-purpose loader LW130

Note: The machine model is specified in the CE Declaration of Conformity and on the CE mark affixed to the machine.

3 Important safety information

3.1 General Operating Instructions



⚠ Danger

Always check that all safety devices on the machine are functioning properly.

Replace any safety devices that are not functioning properly and/or damaged as soon as possible.



⚠ Danger

It is strictly prohibited to replace any guards, safety devices, or any of their components with non-original parts. It is strictly prohibited to modify, remove, or dismantle any guards or safety devices on the machine.

3.2 Residual Risk

We hereby inform operators that, although the manufacturer has taken all possible structural and technical measures to ensure machine safety, residual risks may still exist. These risks are described in the following sections.



⚠ Warning

The residual risks listed below apply to machines without installed accessories. For descriptions of residual risks associated with specific accessories, please refer to the accessory manual.

There is a residual risk of injury caused by objects or materials falling due to the detachment of accessory components that may be installed on the machine. Please refer to the manual for the installed accessories to confirm the presence of this risk.



⚠ Danger

To minimize exposure to residual risks, safety signs (**see Section 4.10**) and wear the personal protective equipment specified in this manual (**see Section 4.12**).



⚠ Residual Risk Number 1

If authorized operators come into contact with hot components (such as quick connectors, hydraulic cylinders, hydraulic hoses, engine components, etc.), these components may reach high temperatures due to prolonged machine use, posing a burn hazard. Strictly adhere to the assembly procedures, accessory removal (**see Chapter 8**), and routine maintenance procedures (**see Chapter 9**) described in this manual.



⚠ Residual Risk Level 2

There is a risk of injury from contact with moving parts while they are in motion. Unauthorized operators must not operate the machine if they do not follow the operating instructions described in this manual, especially when extending their upper limbs outside the operator's seat while the machine is in operation.

Strictly adhere to the equipment assembly, disassembly **procedures (see Chapter 8)**, routine maintenance procedures (**see Chapter 9**), and the correct operating postures described in this manual (**see Section 8.3.1.1**).



⚠ Residual Risk Number 3

If unauthorized operators fail to follow the operating instructions outlined in this manual, it may result in the attachment falling and causing a crushing hazard. Strictly adhere to the equipment disassembly procedures described in this manual (**see Chapter 8**).

⚠ Residual Risk Number 4

If unauthorized personnel fail to follow the operating instructions outlined in this manual, there is a risk of being crushed if the machine overturns. Strictly adhere to the normal operating procedures for the machine as described in this manual (**see Chapter 8**).

3.3 Transportation and Lifting

⚠ Residual Risk Number 5

If unauthorized operators fail to follow the operating instructions described in this manual and do not wear hearing protection, there is a risk of hearing damage. The personal protective equipment specified in this manual must be worn (**see Section 4.12**).

⚠ Warning

Lifting the machine without using a pallet is strictly prohibited.

When the engine switch is turned off, the machine is hydraulically locked and cannot be moved. Do not use any transportation equipment to tow a machine that is turned off.

3.4

⚠ Danger

Note: When performing emergency machine operations, ensure that the machine is safely secured. (Harri)

⚠ Danger

Unauthorized personnel must not perform maintenance operations. Keep away from the machine, and ensure that appropriate measures have been taken to prevent the machine or its components from accidentally moving.

⚠ Danger

When performing all maintenance operations on the machine，if the lifting arm needs to be used，the lifting arm must be installed on the lifting arm's fixed bracket (see figure).

⚠ Warning

Only authorized operators may perform maintenance operations on the machine under the supervision of a qualified person and with prior approval from the responsible person.

Do not allow lubricating oil or other liquids that may be contaminated to enter the environment. These substances are considered hazardous pollutants and must be disposed of by a qualified professional in accordance with applicable regulations.

⚠ Note

Keep the machine's safety guards clean

4 Machine Description

This machine has been carefully designed and manufactured for use in agricultural environments and private gardens, depending on the type of attachments installed.
The machine is equipped with a (diesel) engine, which drives a series of hydraulic pumps. These hydraulic pumps drive a high-pressure hydraulic circuit, enabling:

1) Three wheels (each driven by a hydraulic motor).
2) A lifting arm (located at the front of the machine).
3) A control panel mounted on the driver's seat.

The steering wheel controls a single rear wheel, enabling a steering angle of zero, which provides the machine with exceptional maneuverability.

4.1 Main components and their functions

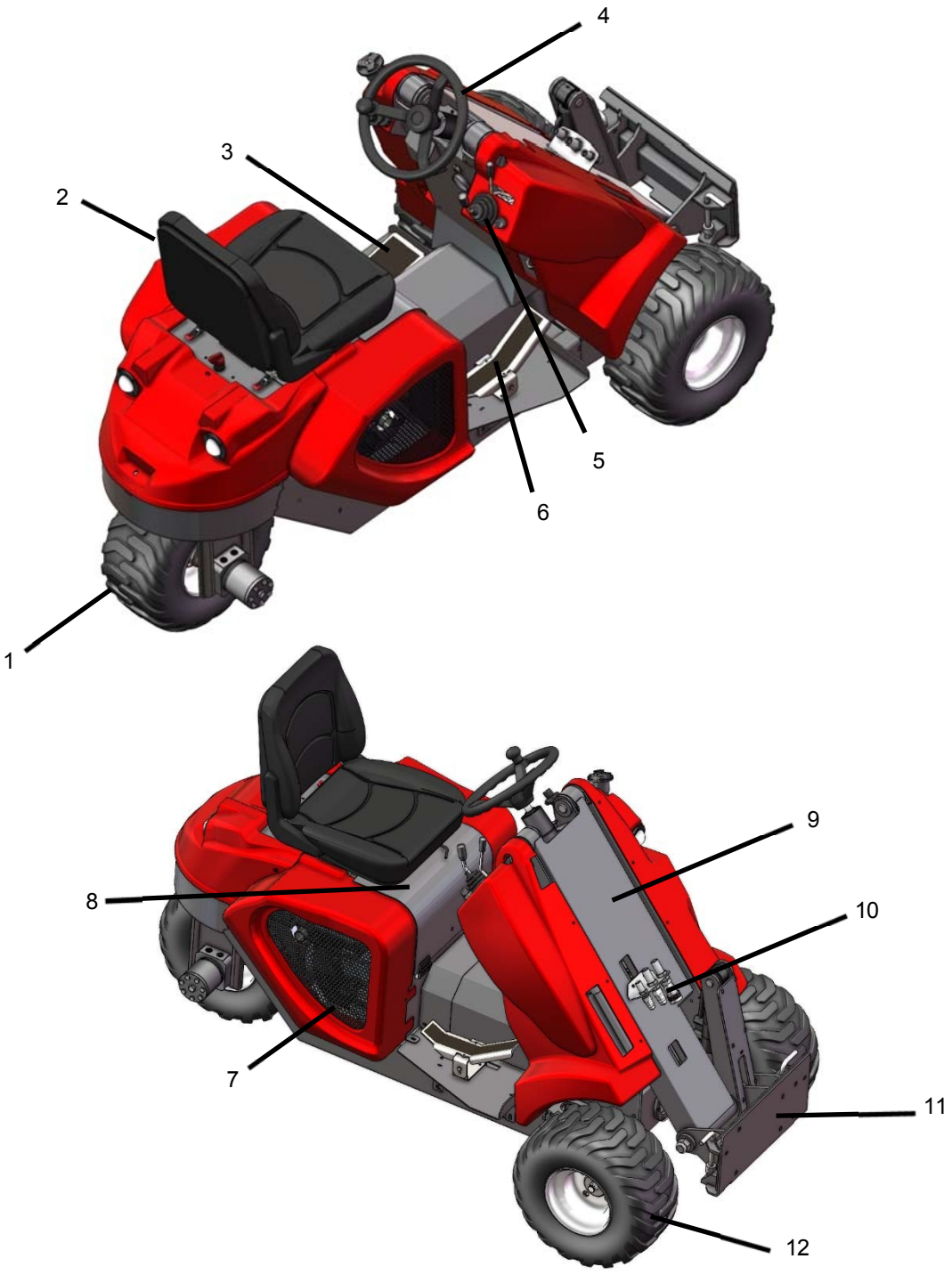


Figure 1

References	Component	Function
1	Rear wheel	It supports, steers, and enables the machine to move.
2	Driver's seat	It supports the operator.
3	Footrest	It supports the left foot.
4	Steering wheel	It allows you to change direction while driving.
5	Control panel	It integrates the machine's operational control devices and the control devices for any attachments that may be installed on the machine.
6	Proportional forward/reverse pedal	It enables the machine to move.
7	Engine	Supplies power to the hydraulic pump.
8	Engine compartment opening device	It protects the engine and prevents operators from accidentally coming into contact with moving parts and high components.
9	Lifting arm	Used to lift attachments mounted on the machine.
10	Quick-connect device	They enable connection to the hydraulic circuit of the attachments.
11	Quick-connect fittings	It enables mechanical connection to accessories.
12	Front wheels (2)	They support the machine and enable it to move.

Table 2

4.2 Seat for use by authorized operators

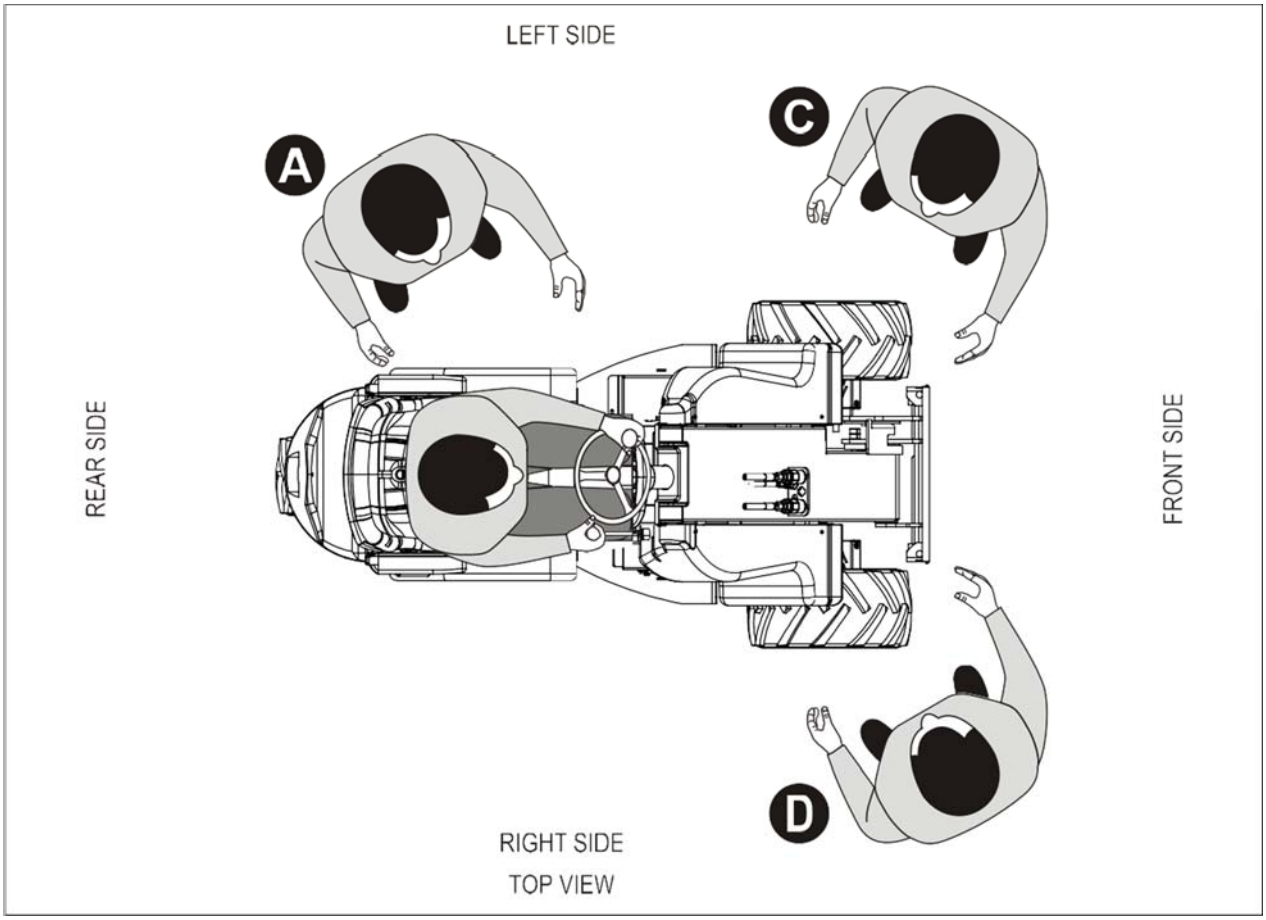


Figure **2**

⚠ Hazard

During the working phase, the operator responsible for operation must remain on the machine (**seat B**) and may only occupy the other work positions shown in **Figure 2** when the machine is in a "safe state" (see Sections 9.2 and 9.3).

Operator	Position	Operating instructions
	A	Stand on the left side of the machine: • Perform fueling operations (**see Section 8.3.9**); • Perform necessary maintenance operations on the machine and engine (**see Chapter 9**).
	B	When the machine is in normal operation, sit in the correct position in the driver's seat (**see Section 8.3**).
	C	Stand on the left side of the machine's front section for the installation and removal of attachments (**see Sections 8.3.4 and 8.3.5**).
	D	Stand on the right side of the machine's front for assembling and disassembling attachments (**see Sections 8.3.4 and 8.3.5**).

Table 3

4.3 Control device

4.3.1 Control Panel

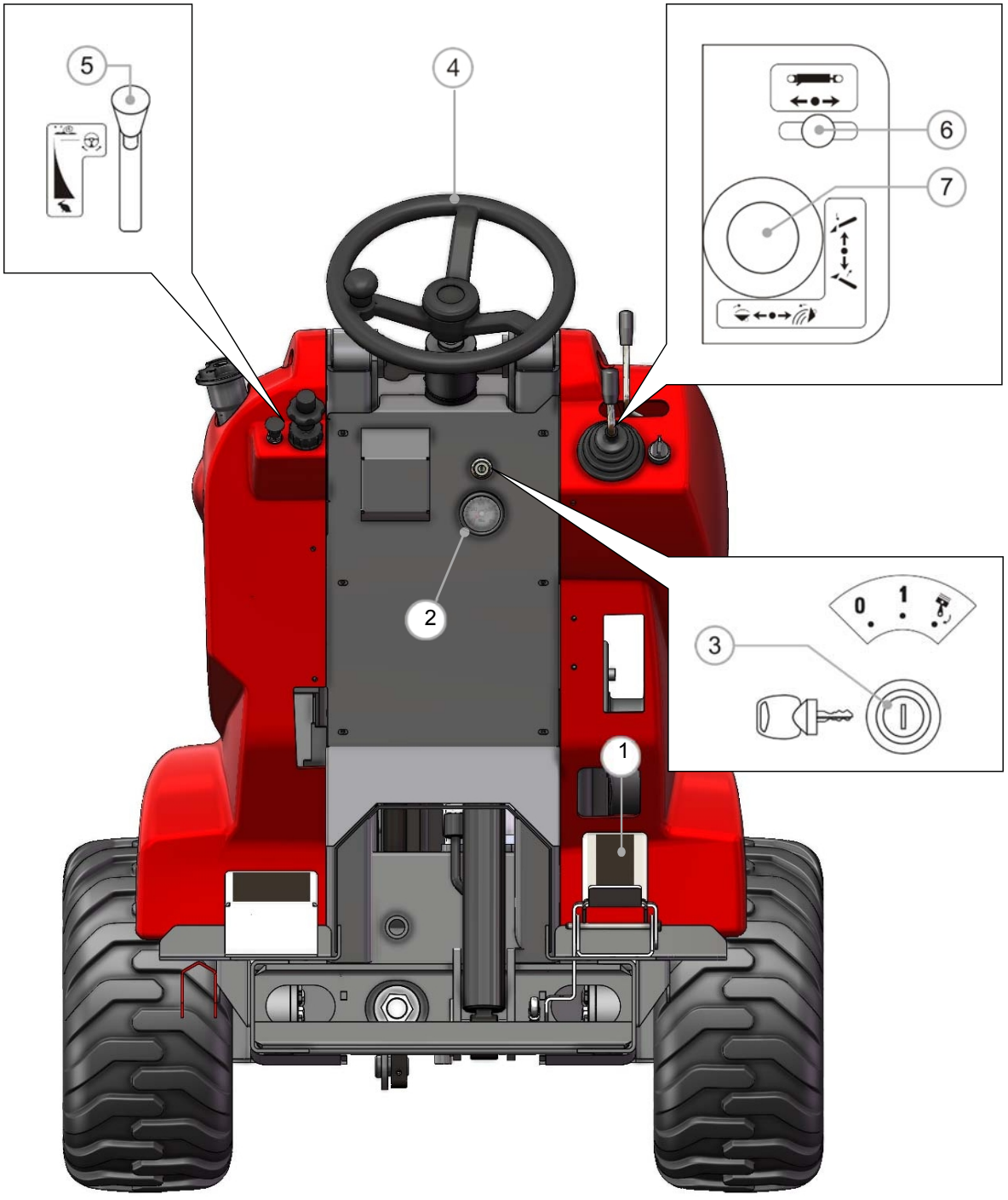


Figure 3

Reference	Name	Function	
1	Proportional forward and reverse pedals	Operated by the right foot: • **Press forward** (right foot): Moves the machine forward and increases speed proportionally to the applied pressure. **Press "reverse"** (right foot): Moves the machine backward and increases speed proportionally to the applied pressure.	
2	Fuel gauge	Displays the fuel tank capacity when the ignition is turned on.	
3	Ignition key	Turn the key to the "ON" position and rotate it to the right to perform the following operations:	
		0	• **Position "0"**: Machine off.
		1	• **Position "1"**: Power supply.
			• **Position "2"**: Start the machine.
4	Steering wheel		It allows changing the direction while the machine is running. Steering operations must only be performed when the throttle handle (**see Figure 5**) **is in the "snail" position**.
5	Throttle	It regulates the engine speed.	
			• **Position "snail"** (clockwise rotation or handle pressed upward): Reduces engine speed.
			• **"Rabbit" position** (counterclockwise rotation or handle pulled upward): Increase engine speed.
6	Quick hydraulic connector hydraulic flow control lever		• **Position "Right"**: Operate and maintain interchangeable attachments (e.g., keep the feed fork closed).
		◆	• **Position "Center"**: Close the attachment.
			• **Position "Left"** (keep moving): It reverses the operation of interchangeable attachments (e.g., open the hay fork).
7	Multi-function control lever	It controls the movement of the lifting arm and quick connector.	
			• **Position "Forward"** (continuous action): It lowers the lifting arm.
			• **Position "Backward"** (hold action): Raises the lifting arm.
			• **Position "Right"** (hold action): Tilts the quick connector forward.
			• **Position "Left"** (hold action): Tilts the quick connector backward.

4.4 Intended use

Application range	Agriculture, horticulture, nurseries, and landscaping.
Location of use	Outside buildings, in sufficiently lit areas compliant with national safety regulations.
Intended use	The intended use is determined by the type of accessories assembled.
Operators responsible for use	Only personnel who meet the specified technical requirements and are authorized to operate the equipment. (see Section 1.6.1).

Table 6

4.5 Usage restrictions and t e c h n i c a l data

4.5.1 Machine

Machine		**LW130**
Maximum Length		1945 mm
Maximum width		993 mm
Maximum height		1290 mm
Turning radius	Class	0
Maximum speed	kilometers per hour	12
Machine weight (excluding accessories)	Kilograms	442
Standard tires		18x9.50-8
Fuel tank capacity		7
Operating pressure	bar	160
Mineral hydraulic oil type		VG46
Hydraulic pump	*N.*	2
Hydraulic flow rate		21

Table 7

4.5.2 Engine

Fuel		Gasoline RATO R740D	Gasoline RATO R420D
Cylinder	*N.*	2	1
Cooling		Air	Air
Power	kilowatts	16.8	9.7
Maximum speed	rpm	3600	3600
Fuel tank capacity	Liters	7	7
Battery	ampere-hours	24	24
Voltage (DC)	*V*	12	12
Operating temperature	°	-10 / +40	-10 / +40

Table 8

⚠Warning

For more technical data, please refer to the accompanying engine manual.

4.6 Load diagram

⚠ Danger

Do not exceed the machine's rated load (**see Figure 5**).

The load chart shown in **Figure 5** is obtained in accordance with ISO 14397-1:2007 and indicates the load capacity of the machine at different boom positions.

The load chart applies when the machine is parked at the maximum steering position, placed on a solid, level surface, with a 100 kg operator in the driver's seat, and equipped with tractor-type tires.

⚠ Note

The movement of the load's center of gravity affects the machine's lifting capacity.

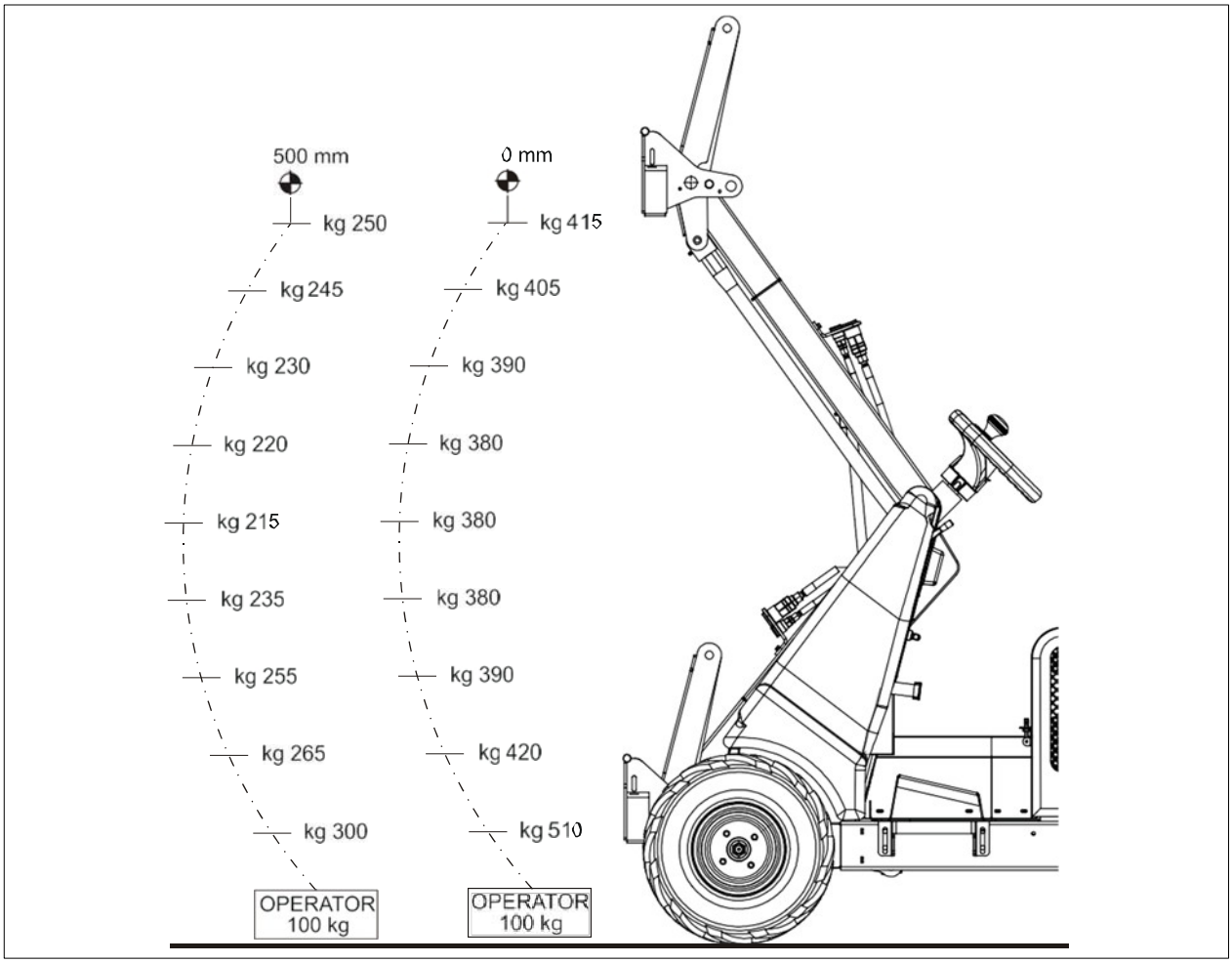
The lifting capacity shown includes the weight of the attached accessories, so the net lifting capacity is the value shown in the graph minus the weight of the accessories.

When operating on uneven or soft ground with obstacles, the attachment must be kept as close to the ground as possible, and the load within the machine's lifting capacity must remain within the machine's lifting capacity range. This will ensure greater machine stability.

The curves shown in the figure represent (from left to right) the load capacity:

- Curve 1: Operator weight 100 kg, seated in the driver's seat with center of gravity at 0 mm;
- Curve 2: Operator weight 100 kg, seated in the driver's seat, center of gravity at 500 mm;

It can be observed that during the movement of the lifting arm, the position of its center of gravity changes relative to the initial position, thereby causing the machine's load capacity to change accordingly.



4.7 Hydraulic Flow/Engine Speed Chart

The chart shown in **Figure 6** illustrates the trend of the relationship between engine speed and hydraulic flow.

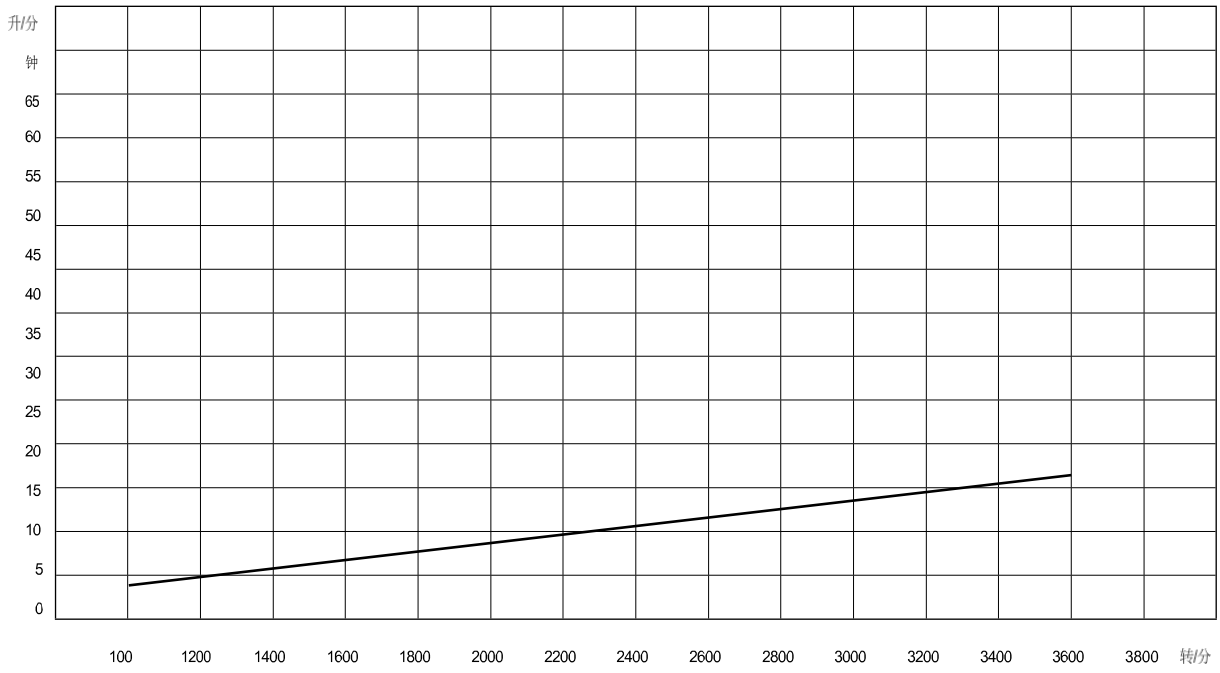


Figure 6

⚠ Note

Refer to the manual for the attached accessories to ensure proper setup.

4.8 Reasonable and foreseeable misuse

⚠ Danger

Do not modify or alter the machine in any way.

Do not use the machine for any purpose other than its intended use (**see Section 4.5**).

Do not install unsuitable and/or non-original attachments on the machine (**see Sections 6.2 and 6.3**). Do not use this machine to transport and/or lift personnel or animals.

Do not move the machine when the lifting arm, attachments, or any load is in the lifted position.

Do not perform steering operations at high speeds. Do not move or use the machine on slopes or unstable ground. Do not use the machine on roads.

Do not use a crane or slings to lift the machine.

Do not leave the machine unattended unless the parking brake is fully engaged, the engine is turned off, and the ignition key is removed. Do not lean forward while the machine is in operation.

Do not operate the machine's controls from any position other than the driver's seat. (**See Section 8.3.3**).

Do not use the lifting arm to move any objects other than those provided by the manufacturer.

⚠ Danger

Before using the machine, ensure that there are no persons, animals, or objects within a ten-meter radius that could be endangered by accident.

⚠ Danger

It is strictly prohibited to use this machine indoors, in poorly ventilated areas, or in environments containing flammable or explosive substances.

⚠ Warning

Do not drag this machine in any manner.

⚠ Caution

Do not use this machine on roads.

⚠ Warning

The manufacturer shall not be liable for any damage to persons, animals, or property resulting from failure to comply with the operating instructions described in this manual.

4.9 Safety Signs

Safety signs consist of a series of adhesive labels affixed to the machine, as **shown in Figures 7 and 8**. The specific meanings of each label are listed in the corresponding tables.

⚠ Warning

Safety signs must be kept clean to ensure good visibility.

Damaged safety signs must be replaced, and the manufacturer and/or authorized dealer must be contacted for replacement (please refer to the code on the label and **Tables** 9 **and 10**). It is strictly prohibited to remove and/or damage safety signs installed on the machine.

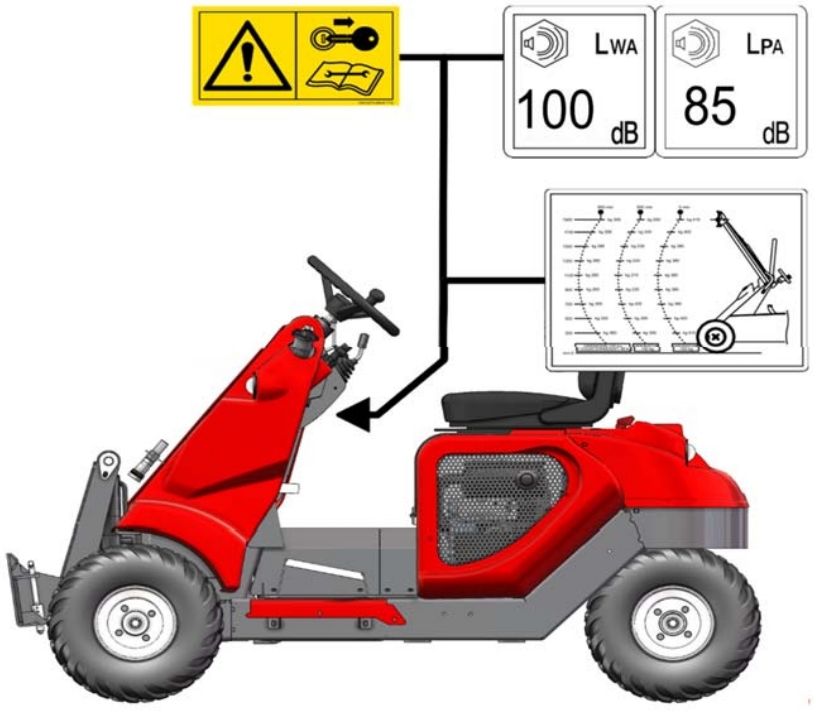




Figure 8

Sign	Meaning	Symbol	Meaning
	Unauthorized personnel are prohibited from touching		Please protect your body
	Prohibited Prohibited No removal Protectiveand safety devices		You must protect your feet
	Do not perform maintenance operations while the machine is running		You must protect your hearing
	No entry or standing within the machine's working range		Keep hands away from moving parts
	Must read the manual		

Table 10

4.10 Emissions

4.10.1 Noise level

The sound level measured during machine operation without attachments and the corresponding sound levels are recorded.

Engine speed		1800
Class A - Weighted emission sound pressure level (LpA) at the operator's position. (A)	decibel	8
Guaranteed sound power level (LwA). (A)	decibel	100

(*) In accordance with the manufacturer's specified static test requirements (adjusted based on translation test results)

Table 11



⚠ Warning

Noise-reducing earplugs must be used. Residual risk level 5 exists (see Section 3.2).

4.10.2 Vibration

Vibration levels have been detected when the machine is in operation and the operator is seated in the driver's seat.

RPM	RPM	360
Vibration	m/s^2	0.5

Table 12

4.11 Personal protective equipment

Marking	All authorized personnel must wear personal protective equipment	Identification	All authorized personnel must wear personal protective equipment (PPE)
	Hand protection (gloves to prevent mechanical injury and burns).		Face protection (protective masks to prevent mechanical risks). (Applicable only to certain attachments, which are marked with special adhesive and noted in the instructions.)
	Foot protection (shoes with reinforced toes and slip-resistant soles).		Hearing protection (noise-canceling earphones).
	Body Protection (protective clothing		Head Protection (Safety Helmets).

Table 13



⚠ Warning

Refer to the assembled accessory manual to ensure other mandatory personal protective equipment is provided.

5 Transportation and Operation

5.1 Transport

Typically, the machine is transported to the customer by the dealer using their own resources or through a "qualified transportation company." The transportation company must use its own personnel and suitable transportation equipment, strictly comply with relevant regulations, and ensure that loading, transportation, and unloading operations meet the requirements of the transportation method (land, sea, or air).

5.2 Lifting

The equipment may only be lifted when placed on a pallet of appropriate dimensions (minimum size: 110x160 cm) and using a forklift truck that meets the usage requirements and has sufficient load-bearing capacity.



⚠ Warning

Before lifting, ensure that the machine is securely fastened to the pallet.

During operations, no personnel, animals, or items that may be affected by accidents are permitted within the vicinity of the machine.

5.3 Operation

The machine can only be moved independently using three wheels and control devices when powered on. If the machine needs to be transported on public roads or moved, it must be loaded onto a suitable transport vehicle (such as a truck, trailer, etc.), which must meet the usage requirements and have sufficient load-bearing capacity.



⚠ Danger

It is strictly prohibited to load the machine onto a transport vehicle using ramps or other devices. Lifting operations may only be performed when the machine is securely fixed to the pallet by a forklift.



⚠ Warning

During operation, ensure that there are no objects, animals, or personnel within a ten-meter radius that could be accidentally affected.

5.4 Storage

If the machine must be left idle for an extended period, the following measures must be taken:

1) Park the machine in a safe, weatherproof, and dust-free environment and **place it in "safe mode"** (see Section 9.2).
2) Clean the machine.
3) Lubricate and apply grease to all joints, levers, and other parts requiring lubrication (see Chapter 9).
4) Remove the battery according to the instructions on the battery and store it properly.



⚠ Warning

When the machine is parked, the parking brake must be fully engaged (see Section 8.3.8), the ignition key must be removed from the control panel, and stored in a safe place.

6 Assembly and installation

6.1 Assembly

The machine is provided by the manufacturer and is ready for use without any installation or connection.

6.2 Options



⚠ Warning

Unless otherwise specified, the installation of optional parts must be performed by an authorized dealer and/or a repair shop authorized by the manufacturer. Please visit the manufacturer's official website and consult your dealer to confirm the compatibility of optional parts with your machine.



⚠ Note

Do not install non-original parts on the machine.

6.3 Accessories

6.3.1 Available Accessories

This machine is designed for use with multiple accessories, which can be installed on the quick-release universal mounting plate. This document does not list all accessories, as they are subject to continuous updates and expansion. Each accessory purchased directly from the manufacturer or its authorized dealer is automatically authorized for installation on



⚠ Danger

Do not install unsuitable or non-original accessories on the machine.



⚠ Warning

You must contact an authorized dealer to ensure compatibility with your machine.



⚠ Warning

The manufacturer shall not be liable for any damage to persons, animals, or property resulting from failure to comply with the operating instructions described in this manual.

6.3.2 Accessory Assembly

Assembly and disassembly procedures are detailed in **Chapter 8**.

7 Pre-startup inspection

⚠ Warning

Before starting the machine for the first time, the following operations must be performed

Reference	Operation
1	Ensure that all machine components are undamaged.
2	Check that the safety system is in good working order (**see Section 9.7.3**).
3	Check the engine oil level (**see Section 9.8.1**).
4	Check the oil level in the hydraulic circuit (**see Section 9.7.5**).
5	Inspect the nipples and lubricate if necessary (**see Section 9.7.8**).
6	Familiarize yourself with the control devices and their functions.

Table 14

8 Operation

8.1 Adjust

8.1.1 Adjusting the driver's seat

This machine is equipped with a driver's seat that can be adjusted longitudinally. To adjust the position of the driver's seat, follow these steps:

1) Sit in the seat.
2) Pull and hold the lever located below the right side of the seat (**Figure 9 - Reference 1**).
3) Slide the seat forward or backward until you find a position suitable for your height.
4) Release the lever and gently move the seat until you hear a click indicating that the seat is securely in place.

⚠ Please note

Seat models may vary by country and may differ depending on specific specifications and options.



Figure 9

8.2 Pre-Ignition Inspection

⚠ Danger

Before using the machine, the operator must read and understand all contents of this manual. Before starting the machine, the operator must always check the fluid levels (see the manual).

⚠ Warning

Before starting the machine, the following precautions must be taken:

Reference	Operation
1	Ensure that all machine components are undamaged.
2	Ensure that the safety system is intact.
3	Check the fuel level.
4	Check the engine oil level (**see Section 9.8.1**).
5	Check the oil level in the hydraulic circuit (**see Section 9.7.5**).
6	Ensure that all control devices are in the neutral position.
7	Ensure that the throttle **is in the "POS. Snail" position**.
8	Ensure that the parking brake is fully engaged (**see Section 8.3.8**).
9	Ensure that routine maintenance has been performed.

Table 15

8.3 Normal Operation

⚠ Warning

You must keep the pedal clear of water, debris, and dirt.

8.3.1 Getting on the machine

To board the machine, follow these steps:

1) Place your left foot on the left footrest with the anti-slip strip.
2) Stand up and sit on the seat.
3) Place both feet on the footrests corresponding to the anti-slip strips.

8.3.1.1 Correct posture

The operator must adopt the following optimal posture to use all commands correctly:

- Sit on the seat with your back firmly against the backrest.
- Face the direction of travel.
- Hold the steering wheel with your left hand.
- Right hand free to operate all other controls.
- Left foot on the footrest corresponding to the anti-slip strip.
- Place your right foot on the footrest corresponding to the anti-slip strip, ready to operate the proportional forward and reverse pedals.

8.3.2 Start

⚠ Danger

Before starting the machine, ensure that there are no persons, objects, or items within a ten-meter radius that could pose a safety hazard due to accidental contact.

⚠ Warning

Before starting the machine, all required inspections must be completed.
Before operating the machine, ensure that all control devices are in the neutral position. Pay special attention to the quick-connect fluid flow control handles (Figure 11 – Reference 1) to ensure they are in the "central" position (see attachment). Before operating the machine, ensure that all planned maintenance work has been completed, particularly machine cleaning. Ensure that no objects or materials obstruct the normal operation of the control system.

⚠ Note

Before using the machine, perform some "operational tests" to gradually familiarize yourself with the machine's various functions.

8.3.2.1 Cold start

When starting a cold engine, follow these steps:

1) Open the engine cover (**see Section 9.4**).
2) Rotate the pressure relief valve clockwise (**Figure 10 - Reference Number 1**).
3) Close the engine hood and climb onto the machine.
4) Set the throttle to the middle position (**Figure 11 - Reference 2**).
5) **Turn** the key (**Figure 11 - - - Reference 3**) to the **"2"** position and hold for two seconds. If the engine does not start, release the key and wait a few seconds before trying again. Once the engine starts, the pressure relief valve will automatically return to its initial position.

8.3.2.2 Hot Engine Start

When starting a warm engine, follow these steps:

1) Place the throttle (**Figure 11 - Reference 2**) in the middle position.
2) Turn the key (**Figure 11 - Reference 3**) to **position "2"** and hold for two seconds. If the engine does not start, release the key and start from **step 1**.

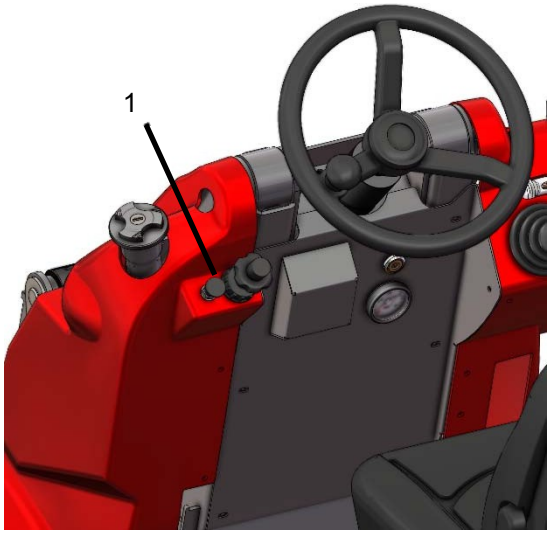


Figure **10**

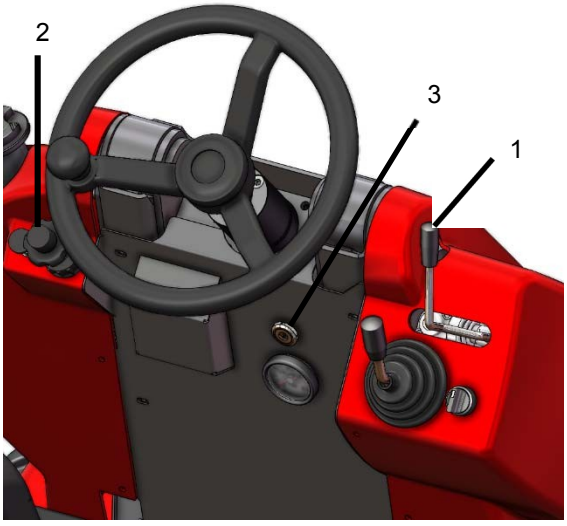


Figure **11**

8.3.3 Operation

To move the machine, follow these steps:

1) Turn on the machine (**see Section 8.3.2**).
2) Release the parking brake lever (**see Section 8.3.8**).
3) Increase the engine speed by operating the throttle control lever.
4) Press the pedal **toward** the **"forward"** or **"reverse"** direction.
5) Use the steering wheel to set the direction of travel.



⚠ Danger

When shifting gears, reduce the engine speed to idle to avoid affecting the machine's stability.



⚠ Danger

D o not move the machine while the lifting arm attachments, or any load is on the left side. Do not move the machine while the operator is on the machine.

8.3.4 Attachment assembly



⚠ Danger

Do not install unsuitable or non-original attachments onthemachine.



⚠ Warning

When installing, removing, or using attachments, always follow the instructions provided with the attachments.



⚠ Warning

Hazardous substances N. 1, N. 2, a n d N. 3 (see Section 3.2).

8.3.4.1 Mechanical connection components

When assembling the accessories, please follow the steps below:

1) Ensure that the accessories are placed on a solid, flat surface.
2) Turn on the machine (**see Section 8.3.2**).
3) Push the multi-function handle to the right to tilt the quick connector forward (**Figure 12 - refer to A**).
4) Turn off the machine (**see Section 8.3.7**).
5) Step down from the machine and proceed to work **area C** (**see Section 4.2**).
6) Turn the two levers on the quick connector (**Figure 12 - Reference 3**) downward to lift the two hook-shaped plugs.
7) Re-enter the machine and start it (**see Section 8.3.2**).
8) Carefully move the machine so that the quick connector aligns with the attachment's quick connector, allowing the dome-shaped profile to be inserted. (**Figure 12 - Reference 2**) into the special curved housing of the attachment (**Figure 12 - Reference 1**).
9) Slowly move the multi-function handle to the left, causing the quick connector to tilt backward and align with the attachment's quick connector (**Figure 12 - Reference C**).
10) Turn off the machine (**see Section 8.3.7**) and exit the machine.
11) Rotate both handles (**Figure 12 - Reference 5**) upward so that the two plugs of the quick connector are properly inserted into the mounting brackets on the attachment.
12) Re-enter the machine and start it (**see Section 8.3.2**).
13) Lift the attachment and tilt it forward while moving the multi-function handle to the right. Visually inspect the two plugs (**Figure 12 - Reference 6**) to ensure they are properly inserted into the mounting brackets on the attachment. If they are not properly inserted, place the attachment back on the ground and repeat the operation from **step 3**).

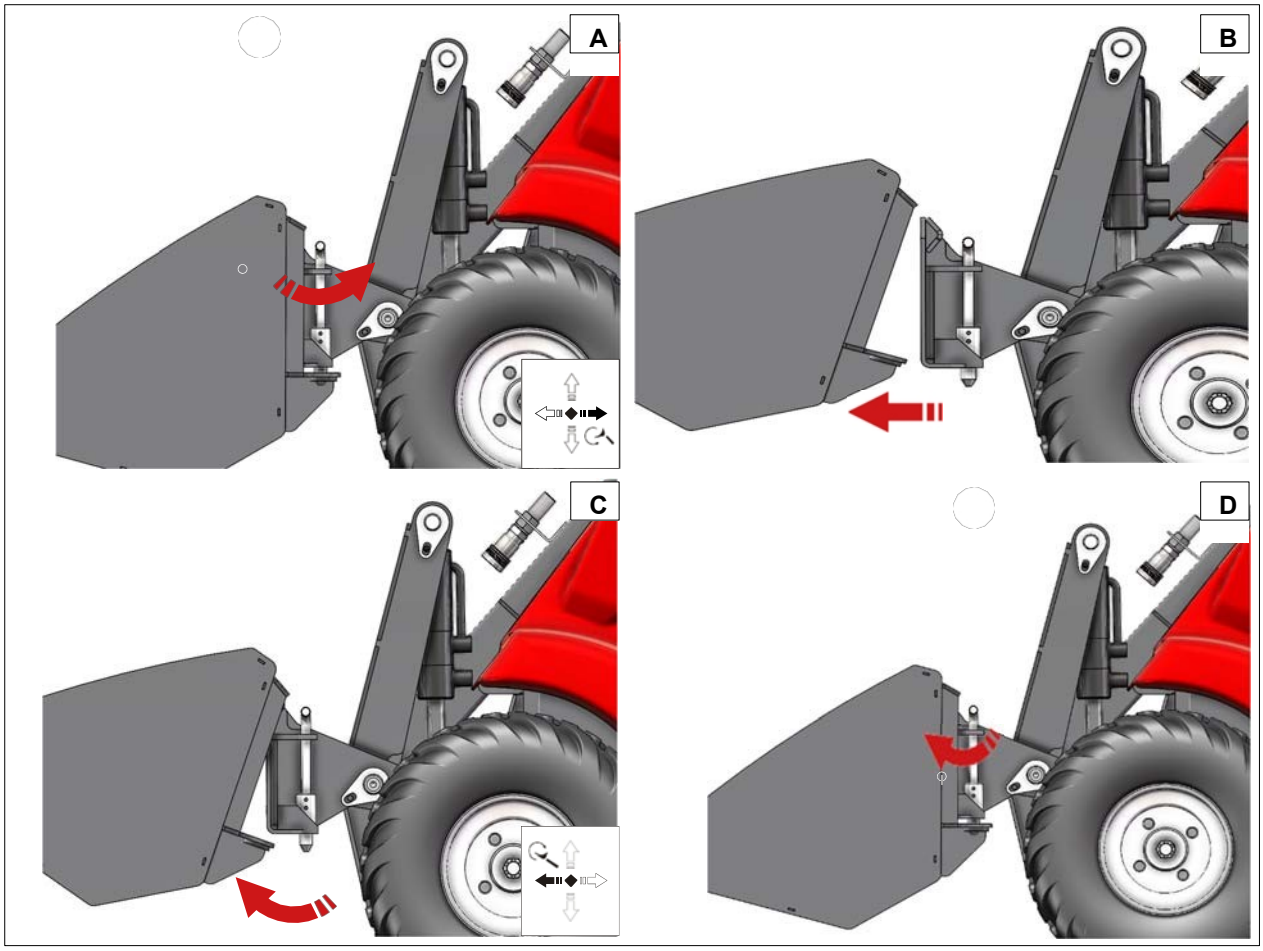


Figure 12

8.3.4.2 Hydraulic connection of the attachment (if required)

⚠ Danger

It is strictly prohibited to connect hydraulic hoses while the machine engine is running. Do not connect hydraulic hoses until the hydraulic system pressure has been released and the assembly procedure has been completed.

⚠ Warning

Please read the attached instruction manual before connecting.

⚠ Warning

Residual risk N.1 (see Section 3.2)

Before making hydraulic connections between the machine and the attachment (refer to **Figure 13 -** Reference 1 for the outlet diagram and Figure 13 - Reference 2 for the inlet diagram), you must release the residual pressure in the machine's hydraulic circuit. Follow

Figure 13 - Reference 2), you must release any residual pressure in the machine's hydraulic circuit. Follow these steps:

1) Turn off the machine (**see Section 8.3.7**).
2) Operate the quick-connect flow control handle (**Figure 11 - refer to Figure 1**), moving it to the right and then to the left.

Warning

Ensure that the liquid bed connection is correct. The connection must be made after the mechanical connection is completed.

After connection is complete, inspect the moving parts of the accessories to ensure they are functioning normally. If not, reconnect the liquid supply hose.

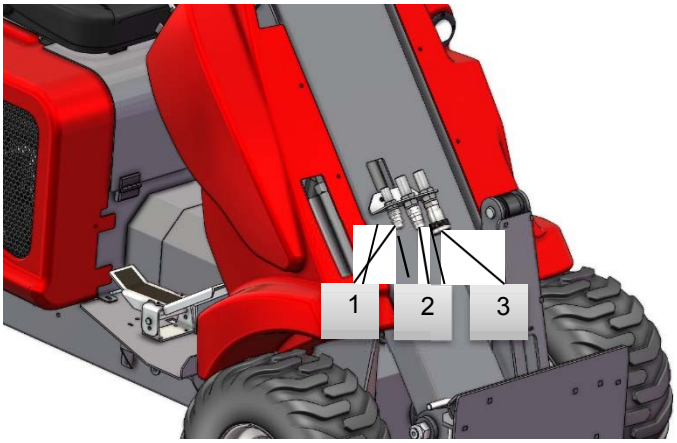


Figure **13**

8.3.5 Removal of the attachment

Warning

Residual parts N. 1 ` N•2 and N.3 (see Section 3.2) remain.

When removing the attachment, follow these steps:

1) Place the accessory on a solid surface.
2) Turn off the machine (**see Section 8.3.7**).
3) Operate the quick-release coupling flow control handle (**Figure 11 - Reference 1**) by moving it to the right and left to release any residual pressure in the hydraulic circuit.
4) If necessary, disconnect the hydraulic hoses.

Warning

Refer to the attachment manual at for the correct hydraulic connection method.

Before disassembling the mechanical attachments, must first disconnect the hydraulic hoses.

5) Rotate the two levers on the quick-connect coupling (**Figure 12 - Reference 3**) downward to disengage the two plugs.
6) Open the machine (**see Section 8.3.2**).
7) Move the multifunctional handle to the right to rotate the machine's quick connector forward.
8) Move the multi-function handle forward to lower the lifting arm and remove the attachment.

8.3.6 Accessory usage

Warning

Use the attachment to ensure proper use of the attachment.

W hen moving the machine, ensure that the attachment components are securely fastened to the machine and kept close to the ground.

8.3.7 Turn off the machine

To shut down the machine, follow these steps:

1) Stop the machine and keep it upright and stationary.
2) Lower the lifting arm and/or place the assembled attachment on the ground.
3) Adjust the throttle lever to the minimum position (**"snail" gear**).
4) Insert the key into **the "0" position**.
5) Engage the parking brake (**see Section 8.3.8**).
6) Release hydraulic system pressure as described **in Section 8.3.4.2**.
7) Place the hydraulic flow control handle **in the "center" position** (**Figure 11 - Reference 1**).
8) Remove the key from the control panel and store it in a safe place.

8.3.8 Refuel

When refueling is required, follow the steps below:

1) Place the machine in **"safe condition"** (**see Section 9.2**).
2) Unscrew the fuel tank cap counterclockwise (**Figure 15 - Reference 1**).
3) When refueling, use a funnel to prevent fuel spills.
4) After refueling, tighten the fuel tank cap clockwise.

⚠ Danger

Do not refuel while smoking or near open flames. Fire and/or explosion hazard.

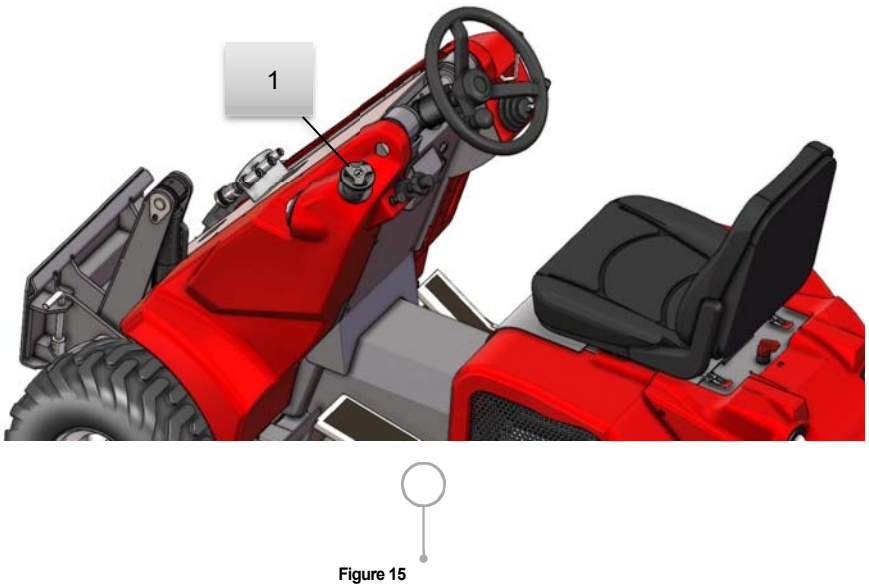


Figure 15

8.4 Function/ Abnormal Condition

8.4.1 Machine instability

The machine may become unstable during high-speed turns or when lifting heavy loads. To avoid this situation, follow the steps below:

1) Drive at low speed and ensure the load is as close to the ground as possible.
2) Do not use the bucket or other lifting attachments to lift heavy loads (**see Section 4.7**).

8.4.2 Hydraulic circuit overpressure

The machine is equipped with a hydraulic valve system to limit oil pressure in the circuit and prevent damage. During difficult operation, a hissing sound may be heard. This indicates that the hydraulic valve has activated. If load conditions continue to deteriorate, it may cause equipment damage. In such cases, reduce the working speed and/or engine speed to alleviate the equipment load.

8.4.3 Control failure

If the oil volume in the hydraulic circuit decreases significantly due to a malfunction, the machine may enter neutral and lose the **"engine** braking" effect provided by the hydraulic circuit. In this case, machine control may be affected. To avoid this situation, follow the steps below:

1) Check for leaks before starting.
2) Check the hydraulic oil level and top up as necessary (**see Chapter 9**).

⚠ Danger

In emergency situations, operate the emergency stop switch to stop the machine.

Hydraulic fluid under pressure may penetrate human tissue causing severe injury or even death In case of hydraulic fluid leakage always use cardboard or wood as a pressure testing tool; never touch with bare hands.

8.4.4 Use the lifting arm to lift the machine and block it.

If the machine malfunctions while the lifting arm is raised, do not lower the lifting arm, as the machine will be in a significantly unbalanced state. Since this machine is a multi-functional device, the risk of overturning becomes significant and difficult to control. To safely lower the attachments and any possible loads to the ground, follow these steps:

1) Engage the parking brake.
2) Remove the key from the control panel.
3) Ensure the area around the machine is safe.
4) Use specialized equipment (such as a forklift) to remove suspended loads.
5) Lower the boom.

8.4.5 Towing the machine

⚠ Warning

Do not attempt to move the machine in any way.

If the machine is locked, it may be towed for short distances (maximum 20 meters) only if the machine is in the "on" position and a suitable towing vehicle is used. Follow these steps:

1) Place the machine in **"safe mode"** (**see Section 9.2**).
2) Connect the tow rope and/or chain to the machine's tow points (**Figure 16 - Reference 1**).
3) Start the machine (**see Section 8.3.2**) and assist with the towing operation as much as possible.

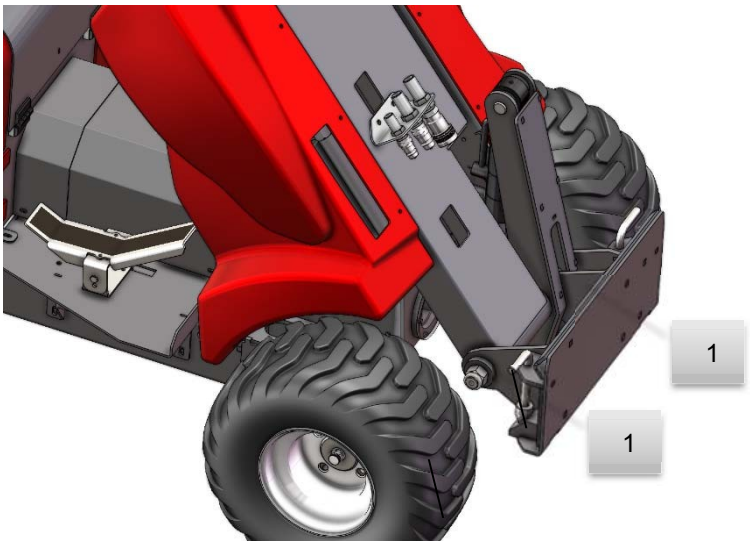


Figure 16

8.4.6 Jump to Start

If the machine battery (**Figure 17 - Reference 1**) fails, you can start the engine using a starter battery and starter cables (**Figure 17 - Part 2**) or the starter to start the engine.

⚠ Warning

Always wear safety goggles and protective gloves. Always inspect the battery and cables for damage.

The voltage and current of the booster battery must match those of the machine battery.

⚠ Danger

Do not jump-start while smoking or near open flames. There is a risk of fire and/or explosion.

Please follow the steps below:

1) Place the machine in **"safe condition"** (see Section 9.2).
2) Open the engine hood (see Section 9.4).
3) Connect the positive (+) ground wire to the positive (+) terminal of the faulty vehicle's battery (**Figure 17 - Reference 3**).
4) Connect the other end of the positive (+) jumper cable to the positive (+) terminal of the starter battery (**Figure 17 - Reference 4**).
5) Connect one end of the negative (-) ground wire to the negative (-) terminal of the starter battery (**Figure 17 - Reference 5**).
6) Connect the other end of the negative (-) ground wire to a metal part of the machine frame or engine, away from the battery. (**Figure 17 - Reference 6**).
7) Ensure that the cable does not interfere with moving engine parts.
8) Start the engine and let the machine run for a few minutes (see Section 8.3.2).
9) After the engine is running, disconnect the cables in the reverse order, starting with the negative cable.
10) Close the engine cover.

⚠ Warning

When disconnecting the booster cables, be mindful of the engine's moving parts (fan, belts, etc.).

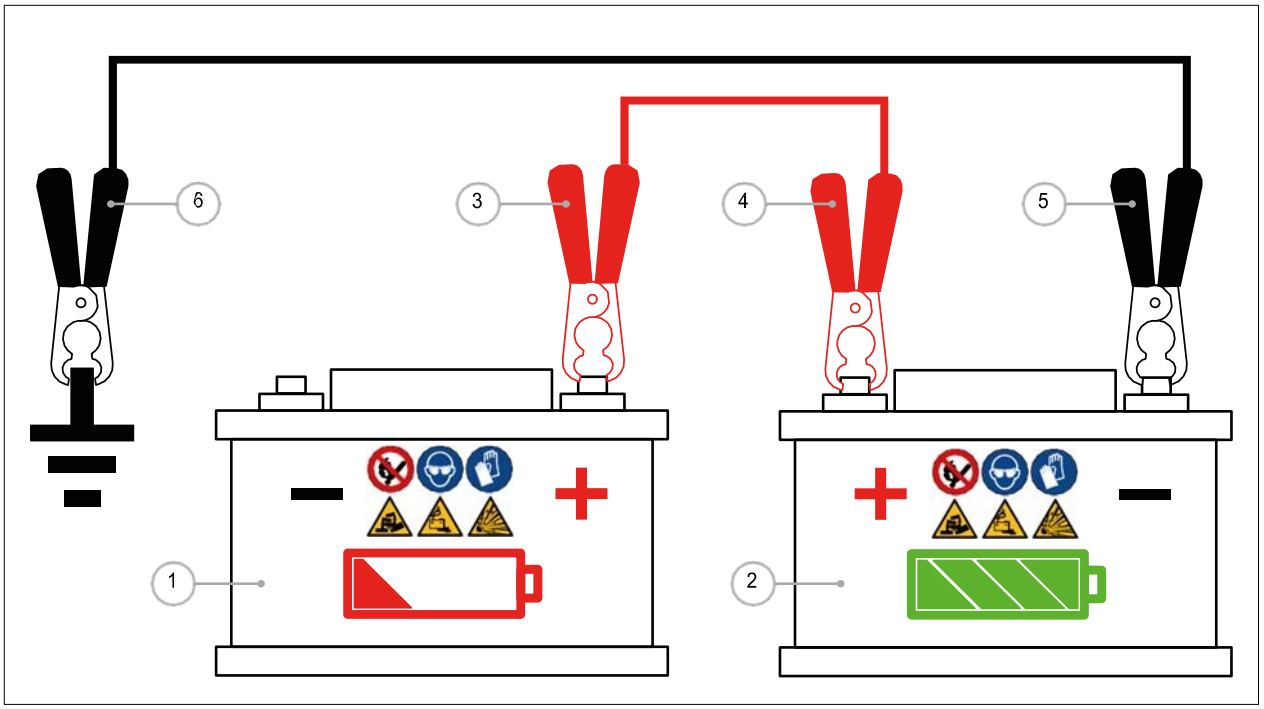


Figure 17

9 Maintenance

9.1 General Warning

Refer to **Section 3.4**.

9.2 Machine Safety Status

The machine is in a safe state when the following conditions are met:

1) The machine is stopped on solid, level ground and is not turned.
2) The lifting arm is lowered and any attachments are in contact with the ground.
3) The engine is shut off (**see Section 8.3.7**).
4) The control device is in the neutral position.
5) The parking brake is fully engaged (**see Section 8.3.8**).
6) The key has been removed from the control panel and stored in a safe place.

9.3 Lifting boom installation safety blocks

When performing maintenance on the machine and lifting the boom is required, the support brackets must be installed. Follow these steps:

1) Start the machine.
2) Fully raise the boom.
3) Shut down the machine (**see Section 8.3.7**) while keeping the lifting boom raised.
4) Insert the fixed support bracket (**Figure 18-Reference 1**) to lock the lifting boom in place, and secure it with the corresponding handwheel (**Figure 18-Reference 2**).
5) Slowly lower the lifting arm until the components of the cylinder are supported by the brackets.

9.4 Open theengine cover

The steps to open the cover plate are as follows:

1) Move the seat forward.
2) Release the two mechanical locks securing the cover (**Figure 19 - Reference 1**).
3) Rotate the cover plate (**Figure 19 - Reference 2**) backward.

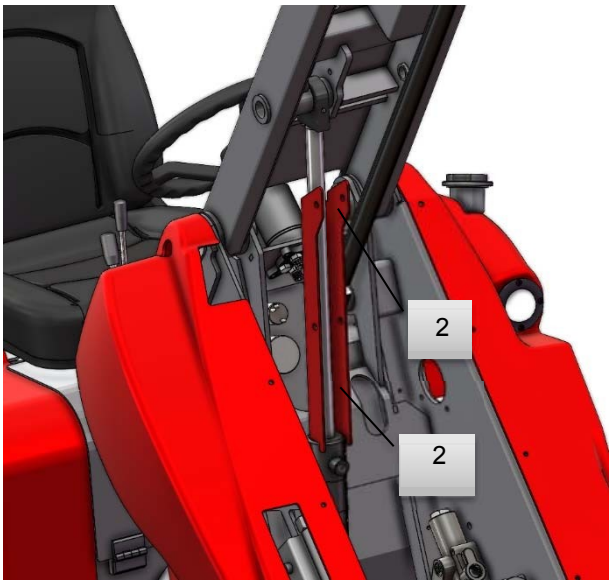


Figure 18

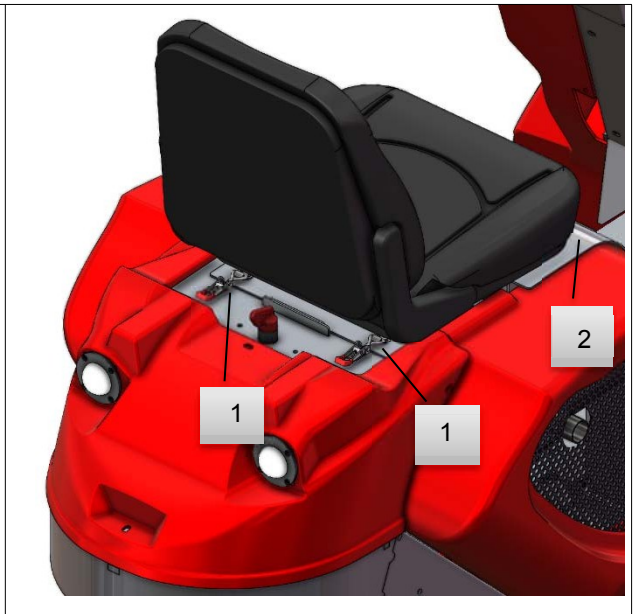


Figure 19

9.5 Normal Maintenance

Frequency	Operating Point	Maintenance Type
Daily	Machine	Cleaning (see Section 9.7.1)
	Joints, levers, and lubricators	Lubrication (see Section 9.7.8)
	Hydraulic circuit	Oil level check (see Section 9.7.5)
	Air filter	Cleaning (see Section 9.8.2)
Weekly	Tires	Check tire pressure (see Section 9.7.2)
	Engine	Check oil level (see Section 9.8.1)
		Clean the air filter (see Section 9.8.2)
	Connections, levers, and lubricators	Lubricate (see Section 9.7.8)

Table 16

9.6 Regular maintenance

⚠ Warning

Please contact your local dealer and/or authorized service workshop for regular maintenance.

Frequency	Operating point	Maintenance type
First 50 hours or 3 months after initial use	Hydraulic system	Replace oil filter (see Section 9.7.6)
		Check pressure
		Adjust pressure
	Engine	Replace engine oil
		Replace oil filter
		Replace fuel filter
	Bolts, nuts, screws, etc.	Check tightness
	Battery	Check charging status
Every 200 hours or every 6 months	Hydraulic circuit	Replace oil filter (see Section 9.7.6)
	Engine	Replace engine oil
		Clean the air filter
		Replace fuel filter
After the first 400 hours of use or one year	Engine	Inspect intake and exhaust valves
Annually	Hydraulic circuit	Check pressure
		Adjust pressure
		Replace oil filter (see Section 9.7.6)
		Replace oil
	Engine	Replace engine oil
		Replace fuel filter
		Replace engine oil filter

Table 17

9.7 Machine maintenance operations

9.7.1 Machine cleaning

Machine cleaning is critical to ensuring reliability and efficiency. Accumulation of dust and dirt can cause malfunctions and damage. After use, especially when the machine has been operated in dusty environments, perform cleaning:

- The machine's exterior surfaces can be cleaned using a high-pressure water gun and a clean cloth.
- Clean the interior of the cab with a mild detergent and a clean cloth.



⚠ Warning

Do not use a high-pressure water gun.

9.7.2 Check tire pressure

Inflating tires to the correct pressure ensures reliable and safe operation of the machine. Before inflating, inspect the tires and rims for damage. If damage is found, replace immediately. Refer to **Section 11.1** for inflation pressure.



⚠ Danger

Never exceed the maximum inflation pressure recommended for the tire model.

9.7.3 Check structural integrity and tightness of bolts

- Seat belts: Inspect the mounting points and related bolts for damage, and ensure the connection system is intact.
- Wheel hub bolts: Check that the bolts are tight.

9.7.4 Battery inspection



⚠ Warning

Battery acid is highly toxic and may cause burns and irritation. Always wear personal protective equipment (gloves, goggles, protective clothing).

The battery is located in the engine compartment.

1) Place the machine in **"safe condition"** (**see Section 9.2**).
2) Open the engine hood (**see Section 9.4**).
3) Check:

- The battery (**Figure 20 - Reference 1**) is intact and free of leaks.
- Inspect the power cable connections for signs of leakage, corrosion, or damage.
- Check that the battery is securely fastened to the machine frame.

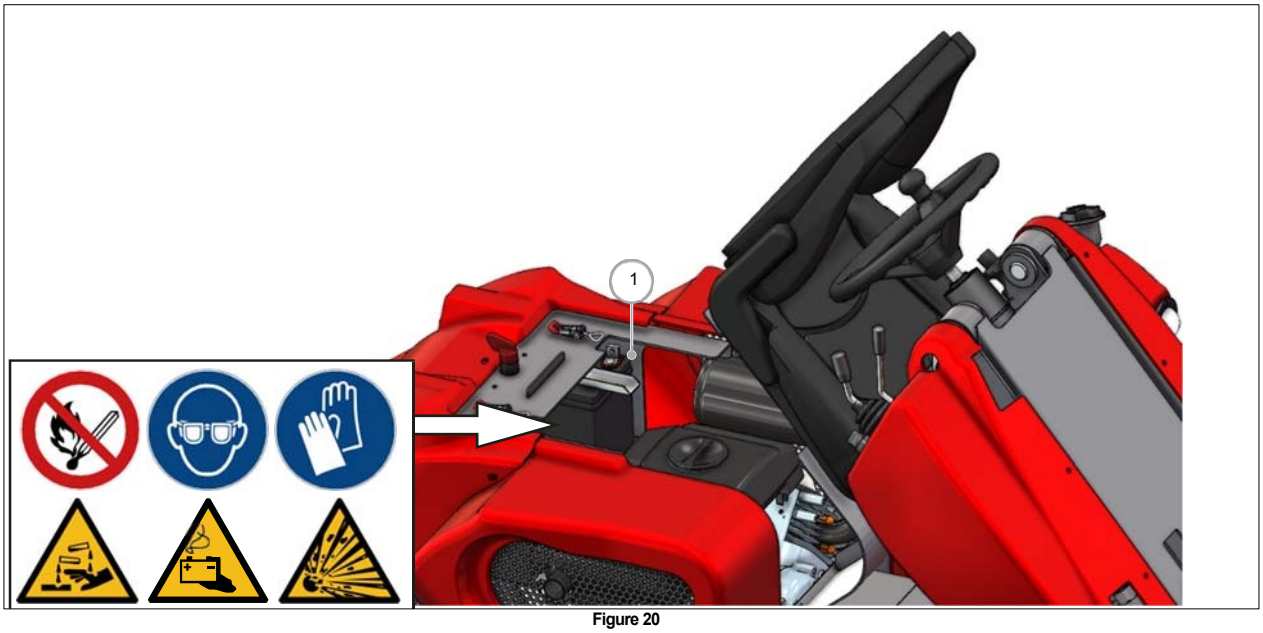


Figure 20

9.7.5 Hydraulic oil level

To check the hydraulic oil level, follow these steps:

1) Raise the lifting arm.
2) Shut off the machine and secure the lifting arm in the vertical position using a safety block (see Section 9.3).
3) Remove the cover of the hydraulic oil tank (**Figure 21 - Reference 1**).
4) Use the dipstick to check the hydraulic oil level inside the tank. The oil level should be at the midpoint of the oil window within the normal operating range (see **Figure 21 - Reference 2**).
5) If additional fluid is required, use the appropriate type of hydraulic oil: **0280 PAKELO HYDRAULIC EP AL ISO 46**.

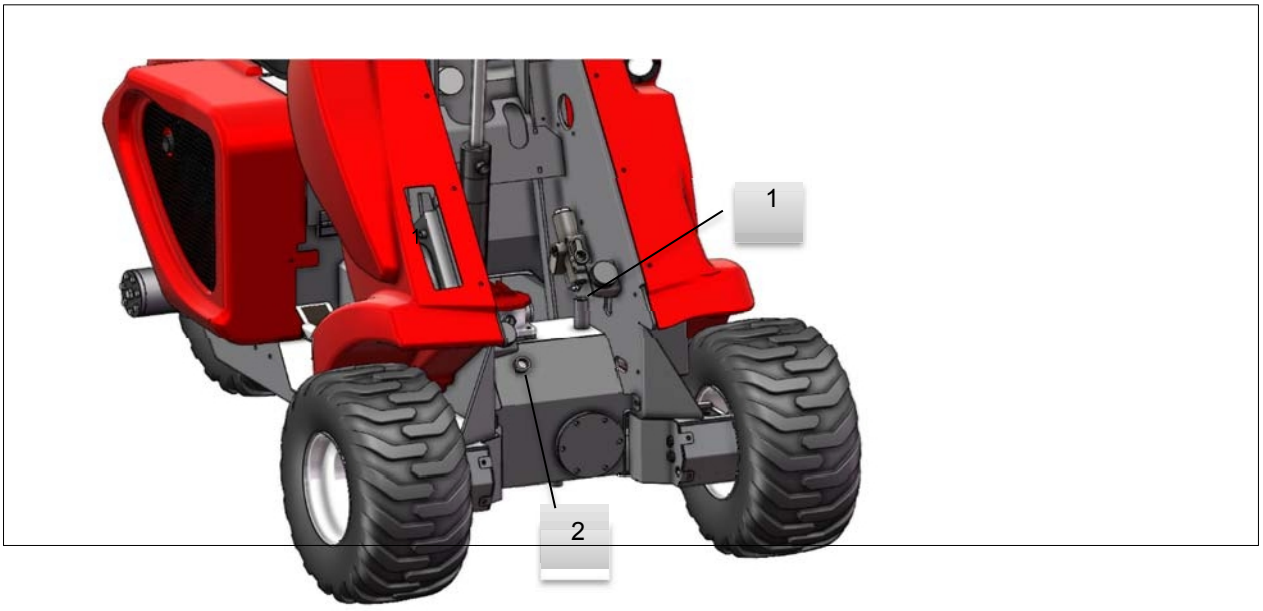


Figure 21

9.7.6 Hydraulic oil filter replacement

Follow these steps to replace the hydraulic oil filter:

1) Raise the lifting arm.
2) Turn off the machine and secure the lift arm in the vertical position using a safety block (**see Section 9.3**).
3) Remove the oil filter cover (**Figure 22 - Reference 2**) and loosen the screws securing the cover.
4) Remove the spring (**Figure 22 - Reference 4**) and the filter element (**Figure 22 - Reference 5**) from the plastic sleeve (**Figure 22 - Reference 6**).
5) Replace the filter element with a new genuine part.
6) Reinstall the spring and inspect the filter cover O-ring for signs of wear or damage. The O-ring is located in the groove at the top of the filter body (**Figure 22 - Reference 3**). If the O-ring is worn or damaged, replace it.
7) Reinstall the filter cover (**Figure 22 - Reference 2**) and secure it in place.
8) Check the hydraulic oil level and top up as necessary according to the procedures **in Section 9.7.5**.

⚠ Note

Used filters must be disposed of in accordance with the current laws and regulations of the country where the machine is used.

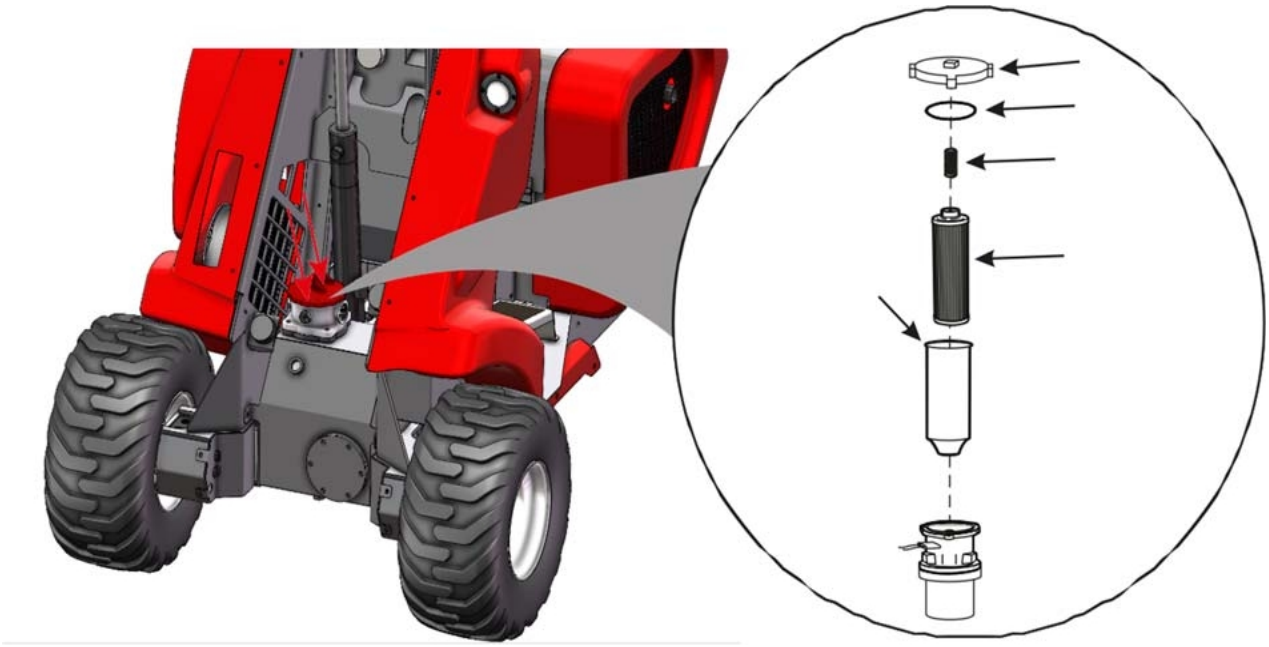


Figure **22**

9.7.7 Hydraulic oil replacement

When replacing hydraulic oil, follow these steps:

1) Raise the lifting arm.
2) Turn off the machine and secure the lifting arm in the vertical position using a safety block (**see Section 9.3**).
3) Place a suitable container with a capacity of at least **15** liters beneath the hydraulic oil tank.
4) Remove the drain plug located near the left front wheel (**Figure 23 - Reference 1**) and drain all hydraulic oil from the machine into the container.
5) Once all hydraulic oil has been drained from the tank, reinstall and secure the drain plug. Inspect the drain plug O-ring (**Figure 23 - Reference 2**) for signs of wear or damage. If damage is detected, replace the O-ring.
6) Replace the oil filter (**see Section 9.7.6**).
7) Remove the hydraulic oil tank cover.
8) Refill the hydraulic oil tank with the recommended hydraulic oil (**0280 PAKELO HYDRAULIC EP AL ISO 46**).
9) Check the hydraulic oil level (**see Section 9.7.5**).
10) Start the machine (**see Section 8.3.2**) and run it for a few minutes to allow the oil to circulate through the hydraulic circuit.
11) Shut off the machine (**see Section 8.3.7**).
12) Check the hydraulic oil level again (**see Section 9.7.5**).

⚠ Note

Used hydraulic oil and filters must be disposed of in accordance with the current laws and regulations of the country where the machine is used.

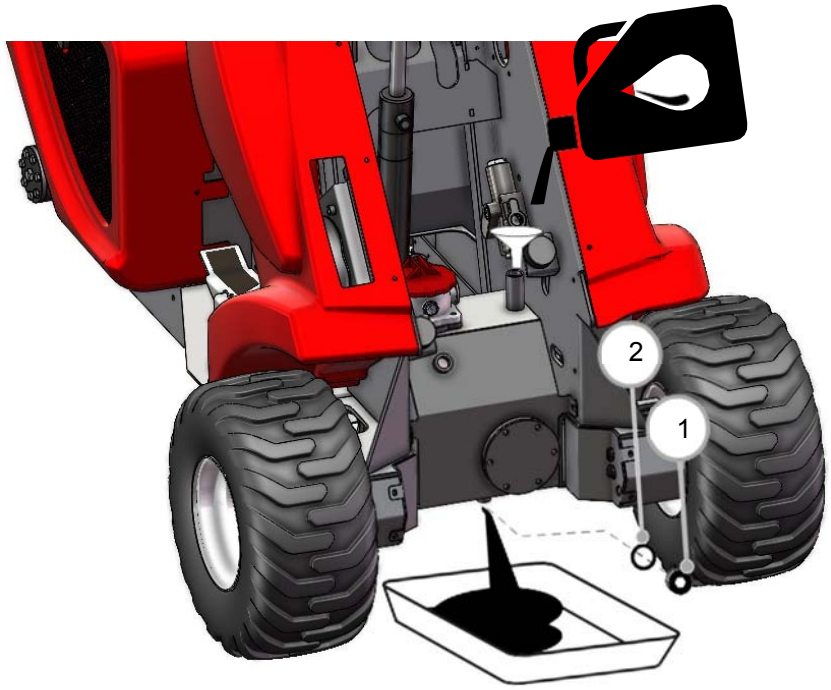


Figure 23

9.7.8 Lubrication point

⚠ Danger

When performing maintenance, the boom safety block must be installed with the boom raised.

Figure 24 shows the locations of the lubrication points.

Clean the lubrication points with a cloth and **apply 0088 PAKELO BEARING EP GREASE NLG I** 0 grease. Remove the rear cover to access the lubrication points of the steering cylinder. Remove the front side panel to access the lubrication points of the boom plug.

The lubrication points at the base of the lifting arm cylinder are located below the machine.

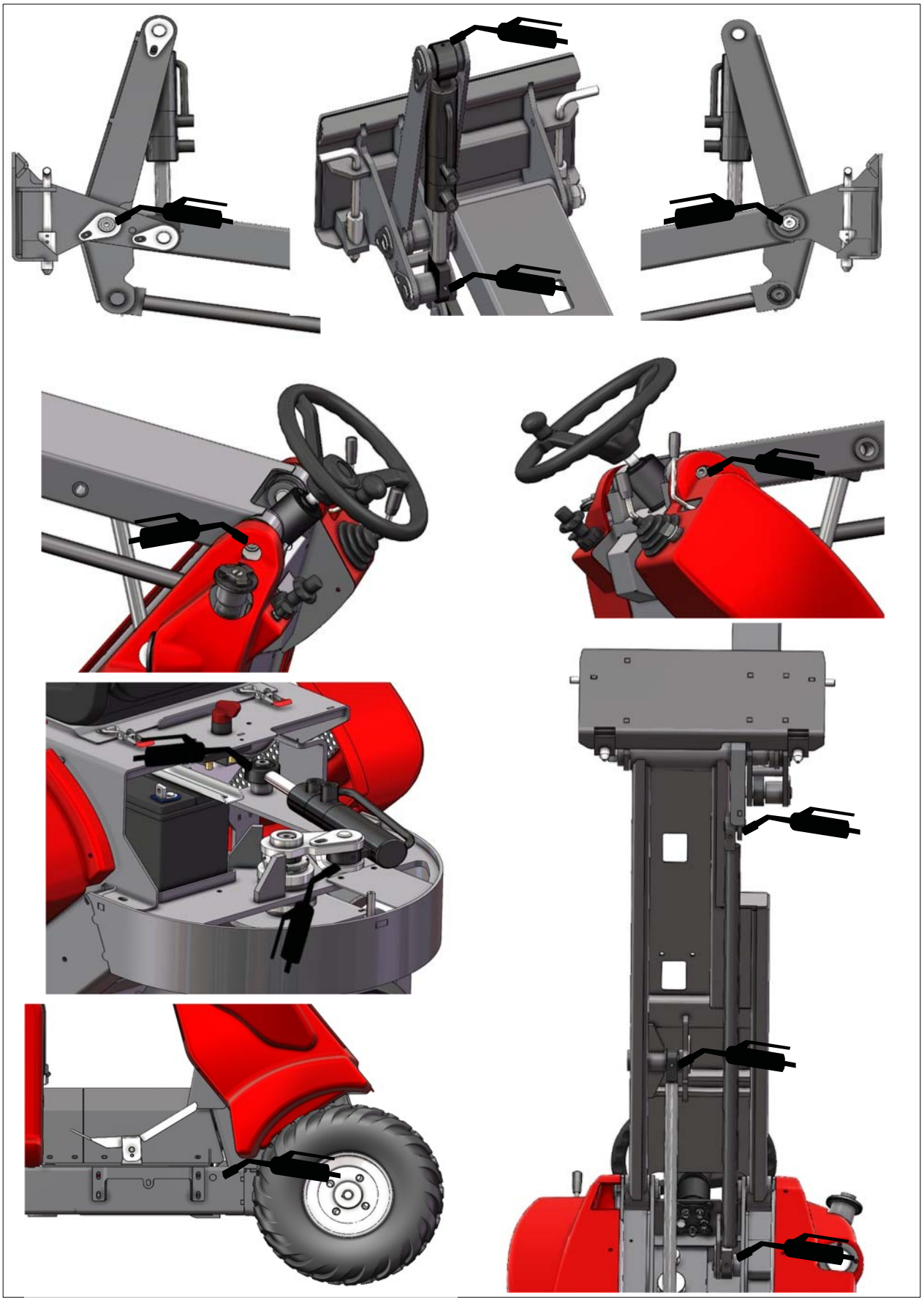


Figure 24

9.8 Engine Maintenance

⚠Warning

For engine service and maintenance instructions, refer to the engine manual provided with the machine.

9.9 Troubleshooting

Problem	Possible causes	Solution
Engine will not start	Battery is dead, battery voltage is too low	Check and charge.
	Fuse blown	Check the fuse. If the fuse blows again, find the cause. Contact after-sales service.
	Battery, cable connection faulty or disconnected	Check the battery cables and terminals, clean and tighten (if necessary).
Engine turns but does not start, or starts and immediately shuts off	No fuel or incorrect fuel type	Drain the fuel tank and refill with the correct type of fuel. Drain water from the fuel filter. Prime the fuel system.
	The engine is not receiving fuel; the fuel filter or fuel lines are clogged.	Ensure that the fuel hose and fuel filter are clean and not frozen. Replace the fuel filter and clean the fuel lines.
	Battery discharged or damaged	Charge the battery or replace the damaged battery.
Engine overheating	Excessive load	Use accessories at lower engine speeds and check for accessory malfunctions.
Even after releasing the parking brake, the loader cannot move	Hydraulic system fluid pressure is too low.	Please contact after-sales service for a pressure check.

Table **18**

10 Spare Parts

⚠Warning

Any replaced original parts must be obtained exclusively from the dealer or authorized service center, and the machine model, serial number, and year of manufacture must be provided.

11 Appendix

11.1 Warranty Terms

11.1.1 General Rules

- The warranty period is as shown in the table below, starting from the date the end user receives the product, or no later than 12 months from the date of sale by our company.
- The Company will, at its sole discretion, repair or replace any defective parts or workmanship proven to be defective free of charge, without any liability for any direct or indirect damages, and without refunding any fees.

11.1.2 Regular Maintenance

During the warranty period, the end user must perform scheduled maintenance in accordance with the pre-set deadlines. For specific maintenance schedules, please refer to the user manual.

11.1.3 Warranty Exclusions

The following items are not covered by the warranty:

1) Consumables, such as oil, lubricants, and filters.
2) Electrical systems.
3) Rubber hoses, tires, wheels, brakes, body parts exposed to impact, wear-prone parts, mufflers, batteries, buttons, levers, control sticks (if equipped), lights, light bulbs, seats, steering wheels, control panels, cylinder seals, and all accessories.

The cost of replacing defective parts during the warranty period shall be borne by the customer if the damage is not due to material or workmanship defects, but rather due to the customer's misuse, improper use of the machine, or damage caused by the customer requiring the machine to perform beyond the standards provided by our company.

11.1.4 Warranty Period

The warranty does not apply in the following cases:

1) The purchaser has failed to fulfill their payment obligations as stipulated in the contract.
2) Damage caused by negligence, carelessness, improper maintenance, use of the machine in violation of regulations, or improper use.
3) Any repairs and/or modifications made to the machine without the prior written consent of our company.
4) The purchaser has installed machine equipment, accessories, or related hydraulic devices not provided by our company.
5) The original equipment installed on the machine by the purchaser has not been properly maintained, resulting in damage to the machine.
6) Electrical, mechanical, or hydraulic modifications have been made to the machine without the prior written authorization of our company.
7) Failure to perform maintenance operations according to the schedule.
8) Use of non-original parts.
9) Using unsuitable fuel, lubricants, or solvents, resulting in machine damage.
10) The vehicle was not used in accordance with the manual.
11) Special circumstances.

11.2.1 Important

- Removing safety devices from the machine will automatically void the warranty and liability.
- If, due to the purchaser's negligence or other reasons beyond our control, repairs cannot be performed immediately after cracks or defects occur, the purchaser shall be responsible for any additional damage or defects resulting from continued use of the machine.
    - The Company shall not be liable for any of the following circumstances: whether due to routine maintenance or any malfunction and/or component damage resulting in the machine being unable to operate, including but not limited to situations where "production is impossible," as well as any alternative solutions that may be provided, related expenses, and/or any other costs.
    - We also inform you that all data will be processed in accordance with Legislative Decree No. 196/2003, the Personal Data Protection Act (the "Privacy Act").
    - If the customer does not agree to the above terms, the machine may be returned to the dealer within 8 days of receipt, provided that the machine is in brand-new condition and has not been used (use of the machine constitutes full acceptance of these warranty terms). The dealer will arrange for an inspection of the machine and may perform repairs, with related costs borne by the customer.

Services Provided

Customer: .....

Model: .....

Serial Number: .....

Delivery Date: .....

Date	Hours	Remarks	Seal/Signature
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