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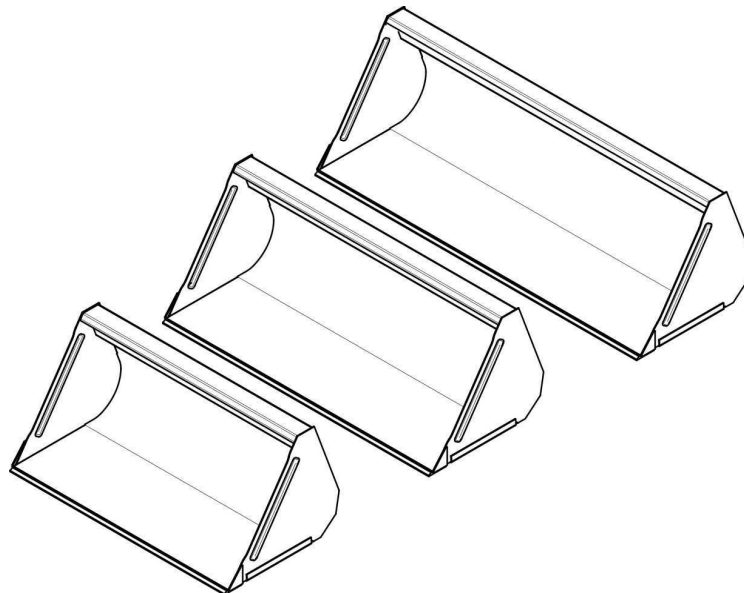
# **USER MANUAL**

## **ATTACHMENTS FOR FRONT LOADERS**

**TYPE OF MOUNTS: ŁC-1650; EURO**

# **BUCKET FOR LOOSE MATERIALS**

TRANSLATION OF THE ORIGINAL MANUAL



VERSION 2A-01-2010

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# ATTACHMENTS FOR FRONT LOADERS

TYPE OF MOUNTS: LC-1650; EURO

## BUCKET FOR LOOSE MATERIALS

### MACHINE IDENTIFICATION

TYPE: .....

SERIAL NUMBER: 

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# INTRODUCTION

The information contained in the publication is current at the date of publication. As a result of improvement, some sizes and illustrations contained in this publication may not correspond to the actual state of the machine delivered to the user. The manufacturer reserves the right to introduce constructional changes in the manufactured machines to facilitate operation and improve the quality of their work, without making any current changes to this publication.

The operating instruction is the basic equipment of the machine. Before using the machine, the user must read the contents of this manual and observe all recommendations contained therein. This will guarantee safe and trouble-free operation of the machine. The machine was constructed in accordance with applicable standards, documents and current legal regulations. The User Manual describes the basic principles of safe use and operation of the attachments. If the information contained in the operating instructions does not turn out to be comprehensible, please contact the sales office where the machine was purchased or directly to the Manufacturer.

## MANUFACTURER'S ADDRESS

*PRONAR Sp. z o.o.  
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## SYMBOLS USED IN THE USER MANUAL

Information, descriptions of hazards and precautions as well as instructions and orders related to safe use in the manual are marked with:



and preceded by the word “**DANGER**”. Failure to comply with these recommendations may endanger the health or life of persons operating the machine or bystanders.

Particularly important information and recommendations, the observance of which is absolutely necessary, are marked in the text with the sign:



and preceded by the word “**CAUTION**”. Non-observance of the recommendations described may result in damage to the machine due to improper operation, adjustment or use.

In order to draw the user's attention to the necessity to perform periodic maintenance, the content of the manual is marked with the following sign:



Additional instructions contained in the manual describe useful information on operating of the machine are distinguished by the sign:



and preceded by the word “**ADVICE**”.

## DESIGNATION OF DIRECTIONS IN THE MANUAL

Left side – the left hand side of the observer facing the machine in the forward direction.

Right side - the right hand side of the observer facing the machine in the forward direction.



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## EC DECLARATION OF CONFORMITY OF THE MACHINERY

PRONAR Sp. z o.o. declares with full responsibility, that the machine:

Description and identification of the machinery							
Generic denomination and function:	<b>Bucket for bulk materials</b>						
Type:	<b>35C15</b>	<b>35C15E</b>	<b>35C18</b>	<b>35C18E</b>	<b>35C20</b>	<b>35C20E</b>	<b>CM15E</b>
Model:	–	–	–	–	–	–	–
Serial number:							
Commercial name:	<b>Bucket for bulk materials PRONAR 35C15</b> <b>Bucket for bulk materials PRONAR 35C15E</b> <b>Bucket for bulk materials PRONAR 35C18</b> <b>Bucket for bulk materials PRONAR 35C18E</b> <b>Bucket for bulk materials PRONAR 35C20</b> <b>Bucket for bulk materials PRONAR 35C20E</b> <b>Bucket for bulk materials PRONAR CM15E</b>						

to which this declaration relates, fulfills all the relevant provisions of the Directive **2006/42/EC** of The European Parliament and of The Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (Official Journal of the EU, L 157/24 of 09.06.2006).

The person authorized to compile the technical file is the Head of Research and Development Department at PRONAR Sp. z o.o., 17-210 Narew, ul. Mickiewicza 101A, Poland.

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

Narew, the 2010 -04- 07

Place and date

Z-CA DYREKTORA  
d/s technicznych  
członek zarządu

*Roman Omelianuk*

Full name of the empowered person  
position, signature

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**CHAPTER**

**1**

**GENERAL**

IDENTIFICATION DATA

INTENDED USE

EQUIPMENT



TERMS OF WARRANTY

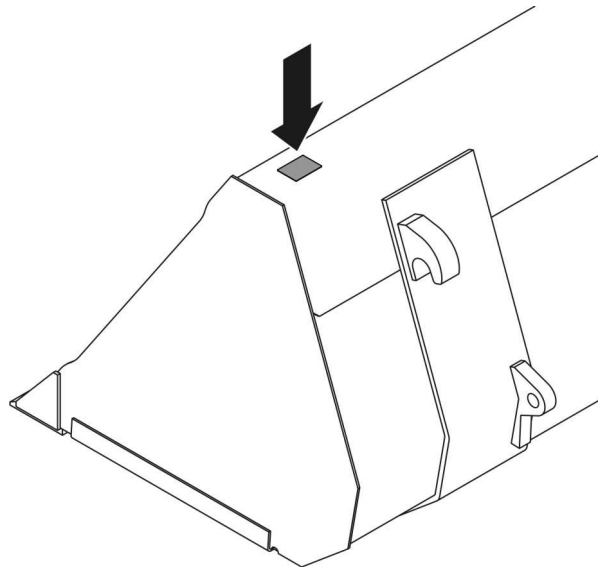
TRANSPORT

ENVIRONMENTAL HAZARD

WITHDRAWAL

## 1.1 IDENTIFICATION DATA

		PRONAR Sp. z o.o. 17-210 Narew ul. Mickiewicza 101A			
Nazwa	<input type="text"/>				(A)
Typ	<input type="text"/>	Nr seryjny	<input type="text"/>		
	(B)		(C)		
Rok prod.	<input type="text"/>				
	(D)				
Masa	<input type="text"/>	kg	KJ	<input type="text"/>	
	(E)			(F)	
<input type="text"/>					
(G)					



**FIGURE 1.1. Location of the nameplate**

Meaning of the individual nameplate fields (FIGURE 1.1):

A - machine name

B - type

C- serial number

D – year of production

E - machine weight [kg]

F - Quality Control mark

G - blank field or name continuation (A fields)

The serial number is stamped on the nameplate and on the top surface of the bucket next to the nameplate. The nameplate is located on the left side of the top surface of the bucket. When purchasing the attachment, check that the serial numbers on the attachment match the number entered in the *WARRANTY CARD*, in the sales documents and in the *USER MANUAL*

## 1.2 INTENDED USE

The attachment to which these instructions apply is intended for ŁC-1650 front loaders (produced by Pronar) and loaders equipped with the EURO mounting system (e.g. LC3 loader by Pronar). The ŁC-1650 loader attachment is not interchangeable with the LC3 loader attachment and vice versa, because they have a different mounting system depending on the model of the attachment (see: „3.1 TECHNICAL CHARACTERISTICS”)

Bucket for loose materials is used for loading and unloading soil, gravel, fertilizers, grain, etc.

The above-mentioned attachments may only be used for loading and unloading works in agriculture, forestry and municipal economy. Use for other purposes should be considered as use not in accordance with the intended purpose.

## 1.3 EQUIPMENT

Front loader attachment includes:

- User manual
- Warranty Card

## 1.4 TERMS OF WARRANTY

PRONAR Sp. z o.o. in Narew guarantees easy operation of the machine when it is used in accordance with the technical and operational conditions described in the *USER MANUAL*. Defects revealed during the warranty period will be removed by the Warranty Service. Deadline for completion of repairs is specified in the *WARRANTY CARD*.

The warranty does not cover parts and components of machines that are subject to wear in normal operating conditions before the expiry of the warranty period, as well as mechanical damage, damage resulting from improper operation, adjustment and maintenance.

The term "warranty repair" does not include activities provided for in the User Manual, which the user is obliged to perform on his own. Detailed warranty conditions are given in the WARRANTY CARD attached to the newly purchased machine.

## 1.5 TRANSPORT

The attachment are ready for sale in a complete condition. The attachment can be transported by any means of transport, while maintaining safety conditions during transport.

In road transport, the attachments are attached in accordance with the safety requirements during road transport. It is recommended to install the attachments on a wooden pallet for transport.

When loading and unloading of the attachments, follow the general principles of workplace health and safety for reloading work. Persons operating forklifts or cranes used for these works should have the required qualifications.



### **DANGER**

It is forbidden to transport the attachments suspended on the front loader on public roads.

## 1.6 ENVIRONMENTAL HAZARD

Bucket for loose materials does not pose a threat to the environment.

## 1.7 WITHDRAWAL

The bucket for loose materials consists of welded steel elements and does not require disassembly before withdrawing. Attachments that are not suitable for further use must be withdrawn in their entirety.

**CHAPTER**

# **2**

## **SAFETY OF USE**

BASIC SAFETY RULES

DRIVING ON PUBLIC ROADS

DESCRIPTION OF RESIDUAL RISK

INFORMATION AND WARNING STICKERS

## 2.1 BASIC SAFETY RULES

- Before starting the operation, the user should carefully read the contents of this manual. During its operation, all recommendations contained therein must be observed.
- If the information contained in the User's Manual is difficult to understand, contact a seller who runs an authorized technical service on behalf of the manufacturer, or contact the manufacturer directly.
- The machine must not be used by persons who are not authorized to drive agricultural tractors, including children and people under the influence of alcohol or other drugs.
- It is forbidden to use the attachment inconsistently with its intended use. Everyone who uses the attachment in a manner contrary to its intended use, thus takes full responsibility for all consequences arising from its use.
- Do not control the loader or attachment from a position other than the position of the operator in the tractor cabin.
- Any modifications to the attachment by the user release the PRONAR company from liability for the resulting damage or health detriment.
- It is forbidden to transport people in the attachment.
- Before using the attachment always check its technical condition.
- In the event of any faults or damage, withdraw the attachments from use until they are repaired.
- It is forbidden to exceed the permissible load capacity of the loader.
- The loader must not be left stationary with the boom raised. Before immobilizing the engine, the boom with the attachments must be supported on the ground.
- Be especially careful when hitching the loader to the attachment.
- Nobody may stay between the attachment and the loader during coupling.
- Before starting work, familiarize yourself with the surroundings and the place of work (the concept of the environment is understood as, for example, obstacles within the scope of the works being performed, the presence of people, the load-bearing capacity of the ground and the necessary protection of the square against public road traffic).
- After connecting to the loader, check the correct mounting of the attachment.
- It is forbidden to travel with the load lifted upwards.
- It is forbidden to transport or load-unloading materials for which the attachments are not intended.
- All journeys and access during reloading should take place with the attachment lowered down so it does not obstruct visibility and at the same time does not rub against the ground.

- The loader and the attachments may not be equipped with a sling or used for reloading or loading and assembly works with such equipment as it does not guarantee the safety of people within the working range.
- When working with lifted attachments, keep a safe distance from electric lines.
- Do not exceed the maximum speed, with a load, of 6 km/h.
- Load in the attachment should be evenly distributed.
- Do not work with the loader (scraping, grading) with the bucket positioned vertically downwards.
- It is forbidden to lift the load to extreme heights on slopes or hills. Pay attention to uneven terrain and its strength.
- When driving with a load, avoid sharp turns and do not brake sharply.
- When driving with a load, the braking distance increases, so be especially careful when driving on slopes or on a slippery surface.
- Repair, maintenance and cleaning works should be performed only with the tractor engine turned off, the ignition key removed and the parking brake engaged.
- It is forbidden to perform service and repair work under a loaded or raised and unsecured boom.
- Use protective gloves and appropriate tools when carrying out maintenance and repair work on the attachments.
- It is forbidden to perform service and repair work under a loaded or raised and unsecured attachment.
- If it is necessary to replace individual parts, use only original part or those indicated by the Manufacturer. Non-adherence to these requirements may put the user and other people's health and life at risk, and also damage the equipment.

## **2.2 DRIVING ON PUBLIC ROADS**

- Transportation on public roads may only take place after the attachments have been dismounted from the loader.

## 2.3 DESCRIPTION OF RESIDUAL RISK

Pronar Sp. z o. o. in Narew has made every effort to eliminate the risk of an accident. However, there is some residual risk that can lead to an accident and is primarily associated with the following activities:

- using the product for purposes other than those described in the manual;
- being between the carrier and the attachments when the engine is running;
- operation by unauthorized persons or persons under the influence of alcohol;
- being on the machine during work;
- cleaning, maintenance and inspection while the engine is running;

Residual risk can be reduced to a minimum by following these recommendations:


- prudent and unhurried operation of the machine;
- application of the notes contained in the User Manual;
- maintaining a safe distance from danger zones;
- a ban on being on the machine while it is working;
- performing maintenance and repair work in accordance with the principles of operating safety;
- use of protective clothing;
- securing the machine against access by unauthorized persons, especially children,



## 2.4 INFORMATION AND WARNING STICKERS

- All signs should always be legible and clean, visible to the operator and to people who may be in the vicinity of the working equipment.
- If any safety sign is not legible or lost, it should be replaced with a new one.
- All elements with safety signs and replaced with new ones during repair should be equipped with these signs.
- Safety signs are available from the manufacturer.

**TABLE 2.1. INFORMATION AND WARNING STICKERS**

SAFETY SYMBOL	PLACE OF APPLICATION	MEANING OF SYMBOLS (SIGN)
	<p>On the right and left side of the bucket.</p>	<p>Keep a safe distance from the raised boom or attachment. Danger of crushing.</p>



*CHAPTER*

# 3

# **CONSTRUCTION AND PRINCIPLE OF OPERATION**

TECHNICAL CHARACTERISTICS

CONSTRUCTION AND PRINCIPLE OF OPERATION

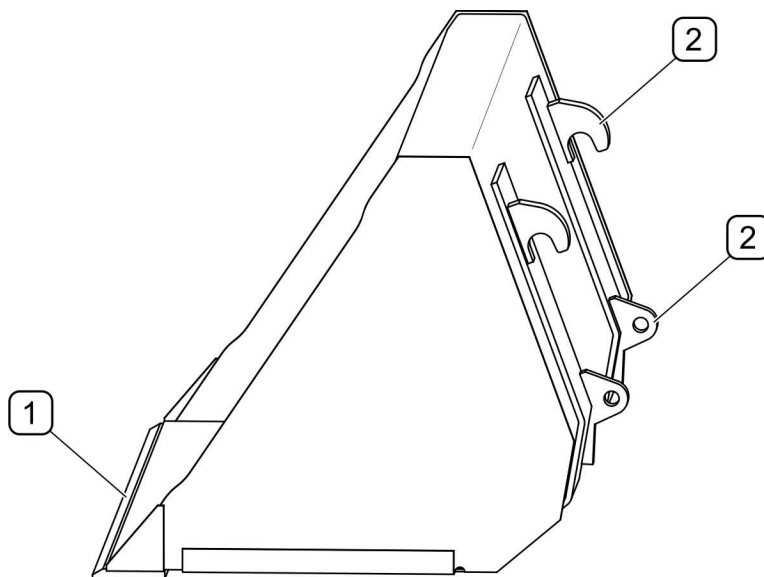
## 3.1 TECHNICAL CHARACTERISTICS

**TABLE 3.1. BASIC TECHNICAL DATA**

The name of the equipment	Bucket for loose materials						
Model	35C15E	35C15	35C18E	35C18	35C20E	35C20	CM15E
Capacity	0.6 m <sup>3</sup>		0.7 m <sup>3</sup>		0.8 m <sup>3</sup>		0.32 m <sup>3</sup>
Depth	860 mm						570 mm
Width	1,540 mm		1,840 mm		2,040 mm		1,500 mm
Height	710 mm						610 mm
Weight	185 kg		210 kg		230 kg		80 kg
The method of the installation	EURO	ŁC-1650	EURO	ŁC-1650	EURO	ŁC-1650	EURO

The level of emitted noise does not exceed 70 dB (A)

## 3.2 CONSTRUCTION AND PRINCIPLE OF OPERATION



**FIGURE 3.1. B Bucket for loose materials**

(1) - bucket blade; (2) - fasteners

The bucket is made as one element welded from sections and steel sheets (FIGURE 3.1B). The cutting and separating element is a steel blade (1). Fasteners (2) are welded to the rear wall of the bucket to connect with the quick-mounting frame of the front loader. Depending on the model, the buckets are available in four widths:

- bucket with a capacity of 0.6 m<sup>3</sup>, overall width - 1,540 mm
- bucket with a capacity of 0.7 m<sup>3</sup>, overall width - 1,840 mm
- bucket with a capacity of 0.8 m<sup>3</sup>, overall width - 2,040 mm
- bucket with a capacity of 0.32 m<sup>3</sup>, overall width - 1,500 mm



**CHAPTER**

# **4**

## **RULES OF USE**

PREPARATION FOR WORK

CONNECTING OF THE ATTACHMENTS TO THE LOADER

WORK WITH ATTACHMENTS

DISCONNECTING OF THE ATTACHMENTS FROM THE LOADER

TRANSPORT

## 4.1 PREPARATION FOR WORK

Before the first use, read the operating instructions for the attachments and the loader that the attachment works with. Make sure that the front loader can work with the given attachment.

Before starting work with the attachments check:

- completeness of the attachments;
- condition of the elements securing the attachments on the loader;

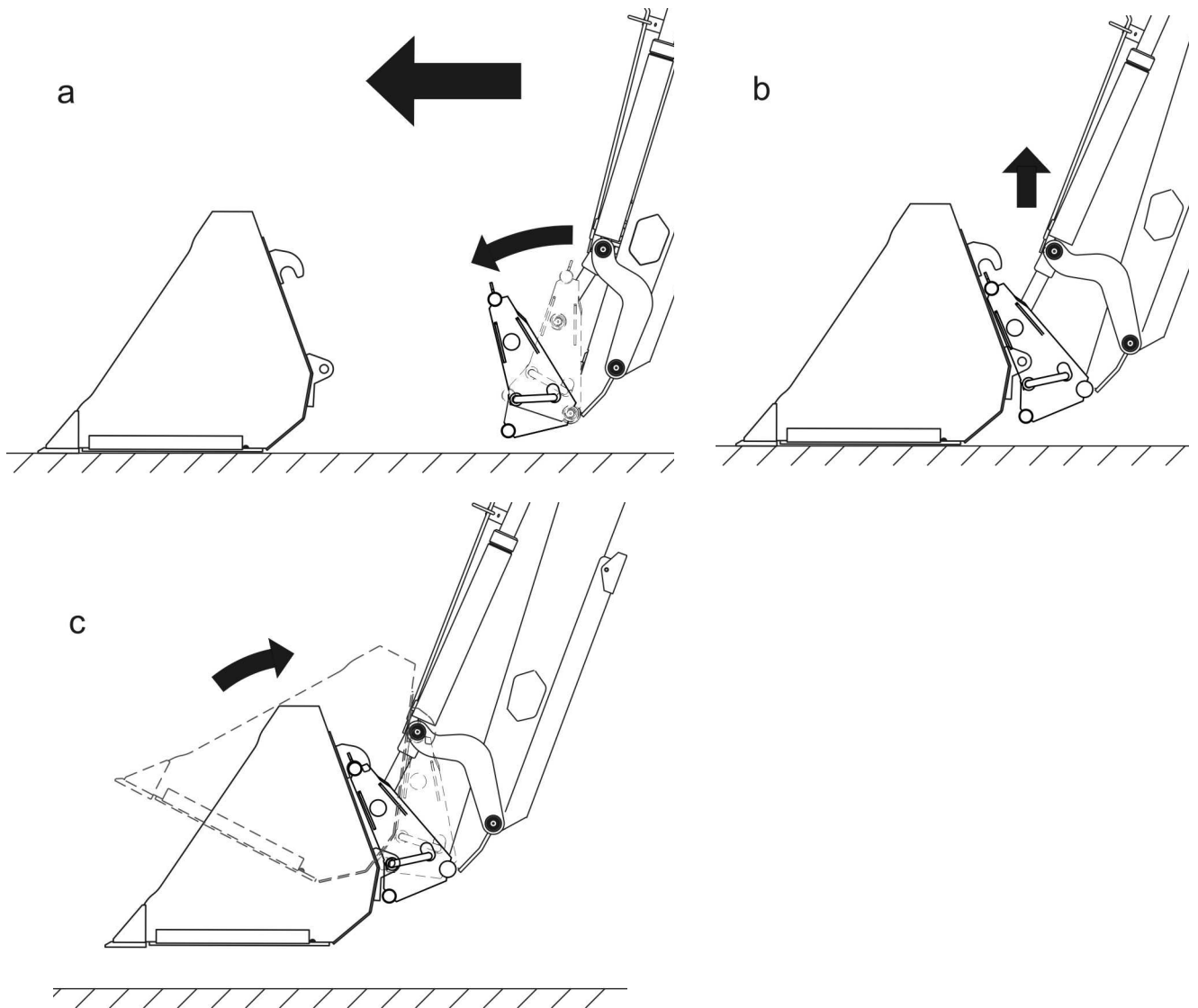
In the event of any faults or damage, withdraw the attachments from use until they are repaired.

## 4.2 CONNECTING OF THE ATTACHMENTS TO THE LOADER

In order to connect the attachments with the loader:

- unlock the quick-release mechanism in the loader frame;
- lower the boom and rotate the frame downwards so that the fixing points on the quick-mounting frame are below the fixing points in the attachment; (*FIGURA 4.1A, item „a”*)
- drive the loader to the attachment and insert the fixing points to the appropriate places in the quick-mounting frame;
- raise the boom so that the upper mounting points are in the hooks of the attachment (*FIGURE 4.1A, item "b"*);
- tilt the frame backwards using the lever in the cabin, causing the quick-fastening mechanism to block (*FIGURE 4.1A, item "c"*);
- check the correctness of fixing;
- lock the quick-attach mechanism (depends on the type of loader)





**FIGURE 4.1. INSTALLATION OF THE ATTACHMENTS ON THE FRONT LOADER**

*The above figure shows the method of mounting a bucket for loose materials on the LC3 front loader.*

## 4.3 WORK WITH ATTACHMENTS

When working with the loader with attachments, pay attention to the most favourable positioning of the means of transport (unloading place) in relation to the loading place. The distance should be selected so that the manoeuvring of the tractor with the loader takes place along the shortest possible way.

When scooping material and driving with a loaded attachment, a maximum speed of 6 km/h and the lowest possible position of the work tool are allowed.

Lifting the accessories to the required height and finishing the work can only be done at the point of unloading.

When working with the bucket, it is recommended to use the attachment level indicator (if present in the loader).



### **DANGER**

**It is forbidden to transport people in the equipment.**

**It is forbidden to stay within the range of the working attachment.**



### **NOTES**

**Do not exceed the permissible front end loader load capacity and the permissible front axle loads of the tractor.**



### **NOTES**

**Do not exceed the maximum transport speed - 6 km/h**

The work cycle of a loader with a bucket consists of the following:

- getting to the loading site, lowering the bucket and setting it on the ground (it is recommended to use the attachment level indicator - if it is present in the loader);
- filling the bucket through the pressure on the material by driving the tractor with simultaneous lifting and tilting the bucket backwards, controlling the movements of the loader boom. The material should be scooped up with the full width of the bucket;
- reaching the unloading site with the bucket raised to the minimum height Do not make sharp turns or the brakes;
- the bucket is raised to the required height enabling unloading and positioning over the unloading site. Bucket emptying by tilting it forward;

- rotating the bucket to the rear in order to avoid a collision with the loading wall of the trailer while the loader is being withdrawn;
- retracting the tractor far enough to lower the boom;
- lowering the boom and tilting the bucket back;
- drive to the place of loading;

## **4.4 DISCONNECTING OF THE ATTACHMENTS FROM THE LOADER**

Before removing the attachment from the loader, it must be emptied and closed. Disconnected equipment should be placed in such place that it is possible to connect it again. Before lowering the attachment to the ground, it must be level. Before leaving the operator's cabin, immobilize the tractor by turning off the engine and engaging the parking brake.

In order to dismantle the attachment from the loader do the following:

- unlock the loader's quick-attach mechanism;
- tilt the attachment forward;
- lower the attachment until it is fully rested on the ground and the frame bars exit the implement hooks;
- drive the loader away from the attachment

The attachment, after disconnecting it from the loader should not be moved or handled with the use of other loader equipment, except for pallet forks, when the equipment is secured on a pallet.

## 4.5 TRANSPORT

- The maximum transport speed of 15 km/h (*i.e. unladen speed*) should not be exceeded. Adapt the travel speed to the road conditions.
- During transport runs, the loader boom should be set so that it does not obstruct the visibility from the operator's position.



### NOTES

Do not exceed the maximum transport speed - 15 km/h



### DANGER

It is forbidden to drive on public roads with the equipment attached to the loader.

*CHAPTER*

# 5

# TECHNICAL SERVICE

STORAGE

The attachments should be thoroughly cleaned and washed with a water jet each time after work. During maintenance (every 25 hours of operation or once a month if the attachments are not used), check:

- legibility of information and warning labels
- general technical condition of the attachments

## **DANGER**



Repair, maintenance and cleaning work can be carried out with the attachment removed from the loader. In case of the attachment suspended on the loader, completely lower the boom with the attachment, turn off the engine and engage the parking brake.

## **DANGER**



- It is forbidden to perform service and repair work under loaded or lifted loader.
- Use protective gloves and appropriate tools when carrying out maintenance and repair work on the attachments.

## **5.1 STORAGE**

It is recommended to store the attachments in a closed or roofed room. For long-term outdoors storage, the loader must be protected against weather conditions, especially corrosive agents. Place the attachments on a level, hard and dry ground. All parts without a protective coating should be coated with a grease to protect against corrosion. In the case of damage to the paint coating, the damaged places must be cleaned, degreased and then painted with paint maintaining a uniform colour and even thickness of the protective coating.

# NOTES

A series of horizontal dotted lines for writing notes.