

SERVICE MANUAL

**810LA / 815LA / 830LA / 835LA /
850LA / 855LA / 857LA /
910LA / 915LA / 917LA /
935LA / 937LA / 975LA**
Farm Loader

Part number 60034447

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TABLE OF CONTENTS

1. INTRODUCTION..... 3

1.1. Necessary additional documentation.....	3
1.2. Identification.....	4
1.2.1. Model and serial number.....	4
1.3. Alignment reference.....	5
1.4. Setting joystick position.....	5
1.5. Subframe identification.....	6
1.6. Subframe identification DM/DL/DLM/DXL.....	7

2. DESCRIPTION AND DEFINITIONS..... 8

2.1. Description.....	8
2.2. Definitions.....	9
2.2.1. Third/fourth hydraulic function.....	9
2.2.2. Live3 (active third hydraulic function).....	9
2.2.3. Implement lock.....	9
2.2.3.1. Mechanical implement lock type Click-on.....	10
2.2.3.2. Hydraulic implement locking.....	10
2.2.4. Hydro Quick / Multi-coupler MC4.....	10
2.2.5. Single couplers.....	11
2.2.6. Multicoupler 2 (MC2).....	11
2.2.7. Lock & Go.....	11
2.2.8. Position indicator.....	12
2.2.9. Compact Valve Unit (CVU).....	12
2.2.10. Hydraulic implement connection, Multi-coupler.....	13
2.2.11. Hose kit.....	13
2.2.12. Soft Ride, Load Damping System.....	13
2.2.12.1. Electric shut-off, boom suspension.....	13
2.2.13. Material buckets.....	14
2.2.14. Heavy Duty Material Buckets.....	14
2.2.15. Construction Tooth Buckets.....	14
2.2.16. Light Material/ Snow Buckets.....	14
2.2.17. Fork Lifts.....	15
2.2.18. Log Grab Attachment for Fork Lifts.....	15
2.2.19. Bale spike.....	16
2.2.20. Big Bale Fork / with Backstop.....	16
2.2.21. Grapple with optional backscreen.....	17
2.2.22. Flexigrip 160, 200.....	17
2.2.23. Quadrogrip 200.....	18
2.2.24. Weld on Hook Set.....	18
2.2.25. Systems DM, DL and DXL.....	19
2.2.26. Mechanical Self Levelling loader, MSL.....	19
2.2.27. Non-Self Levelling loader, NSL.....	19
2.2.28. Tool carrier.....	20
2.2.29. Implement.....	20
2.2.30. Implement hooks.....	20
2.2.30.1. Identification, Skidsteer implement.....	20
2.2.30.2. Identification, Euro implement.....	21

3. SAFETY INSTRUCTIONS.....22

3.1. General information.....	22
3.1.1. Guards.....	22
3.1.2. Warning, prohibition and information decals.....	22
3.2. Explanation of warning levels.....	22
3.2.1. Symbol explanation.....	23
3.2.2. Responsibility.....	24
3.3. Installing the loader.....	24
3.4. Joystick operation.....	26
3.5. Protection equipment.....	26

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3.5.2. Welding.....	26
3.5.3. Safety belt.....	27
3.5.4. ROPS, Rollover protection structure.....	27
3.6. Operation.....	27
3.6.1. Before work.....	27
3.6.2. Operator/driver location.....	28
3.6.3. Connecting implement.....	28
3.6.3.1. Manual implement lock.....	28
3.6.3.2. Hydraulic implement lock.....	29
3.6.4. Workplace.....	29
3.6.5. Stability.....	31
3.6.5.1. Load stability.....	31
3.6.6. Tractor stability.....	31
3.7. Risk factors.....	32
3.7.1. During transport and work.....	32
3.7.2. During service.....	34
3.7.3. After work.....	35
3.8. Replacement parts.....	36
3.9. Location of warning, prohibition and information decals (EU).....	37
3.10. Location of warning, prohibition and information decals (NAFTA).....	38
3.11. Location of safety signs on implements.....	39

4. INSTALLATION - SUBFRAME..... 41

4.1. Installation preparation - subframe.....	41
4.2. Installation – subframe on tractor.....	42
4.3. Installation checks – subframe installation.....	42

5. INSTALLATION – FRONT LOADERS..... 43

5.1. Installation Preparation, Front Loaders.....	43
5.1.1. Lock & Go.....	43
5.1.2. Position indicator.....	43
5.1.2.1. Position indicator setting.....	43
5.2. Connection – Front loader with subframe.....	44
5.2.1. Connecting the loader using lifting equipment.....	44
5.2.2. Coupling a parked loader.....	47
5.3. Checking front loader installation.....	49
5.4. Disconnecting-Front loader with subframe.....	51
5.4.1. Unhitching the loader using lifting equipment.....	51
5.4.2. Disconnecting the loader.....	53

6. INSTALLATION – CONTROL SYSTEM..... 55

6.1. Hose kit.....	55
6.2. Compact Valve Unit, CVU.....	55
6.2.1. CVU equipped with: Basic NSL (no extra functions).....	55
6.2.2. CVU equipped with: Soft Ride + shock valves (tilt).....	56
6.2.3. CVU equipped with: Third hydraulic function.....	56
6.2.4. CVU equipped with: Third function + Soft Ride.....	56
6.2.5. CVU equipped with: Third function + hydraulic implement lock.....	57
6.2.6. CVU equipped with: Third function + Soft Ride + hydraulic implement lock.....	57

6.2.7. CVU equipped with: Third and fourth hydraulic functions.....	58	11.1.9. Installing the top nut, piston and bottom guide on the piston rod.....	87
6.2.8. CVU equipped with: Live3.....	58	11.1.10. Final assembly - tilt cylinder.....	87
6.2.9. CVU equipped with: Live3 + Soft Ride + shock valves (tilt).....	59	11.2. Tilt cylinder - Non-Self Levelling loader (NSL).....	90
6.2.10. CVU equipped with: Live3 + hydraulic implement lock.....	59	11.2.1. Tilt cylinder disassembly.....	90
6.2.11. CVU equipped with: Live3 + Soft Ride + hydraulic implement lock.....	60	11.2.2. Removing the piston.....	92
7. SERVICE - GENERAL.....	61	11.2.3. Remove the piston seals.....	93
7.0.12. The tractor's own joystick.....	61	11.2.4. Remove the top nut seals.....	93
8. SERVICE - SUBFRAME.....	62	11.2.5. Installing new sealing components on the piston.....	93
9. SERVICE - FRONT LOADERS.....	63	11.2.6. Installing new sealing components on the top nut.....	93
9.1. Lubrication.....	63	11.2.7. Installing the bearing and the piston on the piston rod.....	94
9.2. Tool carrier.....	63	11.2.8. Final assembly - tilt cylinder.....	95
9.3. Loaders.....	64	11.3. Lift cylinder.....	97
9.3.1. Pins and bushings.....	64	11.3.1. Tilt cylinder disassembly.....	97
9.3.1.1. Bushing.....	64	11.3.2. Removing the piston.....	99
9.3.2. Tool carrier, replacing pins and bushings.....	64	11.3.3. Remove the piston seals.....	100
9.3.3. Replacing the pins and bushings, triangular link.....	66	11.3.4. Remove the top nut seals.....	100
9.3.4. Replacing pins and bushings, lift cylinder and bearing box.....	66	11.3.5. Installing new sealing components on the piston.....	100
9.4. Bearing box.....	68	11.3.6. Installing new sealing components on the top nut.....	100
10. SERVICE - LOADER HYDRAULICS.....	69	11.3.7. Installing the bearing and the piston on the piston rod.....	101
10.1. Hydraulic system.....	69	11.3.8. Final assembly - lift cylinder.....	102
10.2. Hoses and connectors.....	69	12. TROUBLESHOOTING.....	104
10.2.1. Replacing hoses or connectors.....	70	12.1. Troubleshooting table - loaders.....	104
10.3. Main hose kit.....	70	12.1.1. CVU.....	107
10.4. Boom suspension.....	72	13. TIGHTENING TORQUES.....	109
10.4.1. Replacing accumulators.....	72	13.1. Tightening torques.....	109
10.5. Compact Valve Unit (CVU) with associated function modules.....	75	13.1.1. Table - Tightening torque.....	109
10.5.1. Module CB01 connecting block "Basic".....	76	14. STORAGE.....	110
10.5.2. Module CB03 connecting block "Soft Ride".....	77	15. SPECIFICATIONS.....	111
10.5.3. Module CB04 connecting block "Tilt".....	77	15.1. Mechanical self levelling, MSL.....	112
10.5.4. Module SV01 selector valve Third hydraulic function.....	78	15.2. Non self levelling, NSL.....	115
10.5.5. Module SV02 selector valve fourth hydraulic function.....	79	16. WIRING DIAGRAM.....	117
10.5.6. Module IL01 Hydraulic lock valve.....	80	16.1. Wiring diagram - Loader.....	117
11. SERVICE - CYLINDERS.....	81	16.2. Wiring diagram -Loader with Live3.....	118
11.1. Tilt cylinder - Mechanical Self Levelling loader, (MSL).....	81	16.3. Wiring diagram - Loader with all hydraulic functions.....	119
11.1.1. Tilt cylinder disassembly.....	81		
11.1.2. Removing the piston.....	84		
11.1.3. Remove the piston seals.....	84		
11.1.4. Remove the top nut seals.....	85		
11.1.5. Remove the bottom guide seals.....	85		
11.1.6. Installing new sealing components on the piston.....	85		
11.1.7. Installing new sealing components on the top nut.....	85		
11.1.8. Installing new sealing components on the bottom guide.....	86		

1. INTRODUCTION


WARNING:

Careless or incorrect use of the loader/implement may result in serious injury or death for the driver or others. Observe the safety instructions.

This service manual describes commissioning, servicing, repairs and troubleshooting on agricultural loaders used in combination with front loaders manufactured by Ålö AB. The information in the service manual was correct when the manual went to press. Contact Ålö AB if there is anything in the manual you do not understand.

Read and study the text in the **service manual** before commissioning, servicing or repairing the front loader. If you are not an experienced service technician, study the service manual and ask experienced service technicians to explain things to you. Keep this **service manual** within easy reach. Replace the service manual if the old one is damaged or lost.

Read and study the text in the user manuals for the loader, the control system and the tractor thoroughly before using the equipment. If you are not an experienced operator, study the user manual and ask experienced operators to explain things to you.

This machine is designed with simple service in mind, and it can be maintained with regular hand tools.


WARNING:

Read through the entire service manual before you begin using the product.

We reserve the right to introduce changes to the design and specification, or improvements at any time, without prior notice or commitment.

IMPORTANT: The loader and loader subframe combination is designed for a specific tractor model. Do not install a subframe on another model of tractor without permission from the manufacturer.

No Installation Instructions, operating instructions or service instructions for implements are included in this service manual. Use the publications supplied with each implement.

1.1. Necessary additional documentation

To perform the work described in this service manual properly, the following documentation is required:

- User manual, front loader
- User manual, tractor
- Service and repair manual, tractor
- Technical specifications, tractor

IMPORTANT: Some, but NOT all, information in this service manual is taken from the above mentioned manuals. Read all manuals and technical specifications carefully to ensure proper start-up, maintenance and/or repair of the loader and control system.

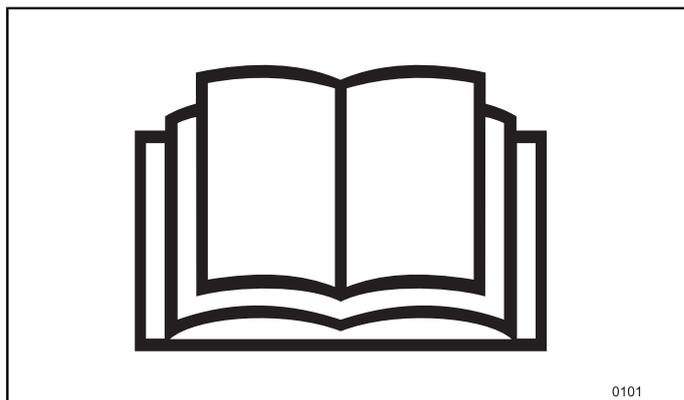


Fig. 1 Read through the entire service manual before you begin using the product.

1.2. Identification

1.2.1. Model and serial number

Each loader has an identification plate (A) with an identification number. The plate is located on the inside of the left arm.

The plate specifies:

- Product: Machine name
- Type: Type/model
- Made by: Complete address of manufacturer and country of manufacture.
- Ref. No.: Reference number for loader
- Serial No.: Serial number for loader
- Date: Date of manufacture
- Weight: Loader weight without implements, according to the factory delivery specification.

The type (A), serial number (B) and date of manufacture (C) must always be quoted during service questions or when spare parts are needed.

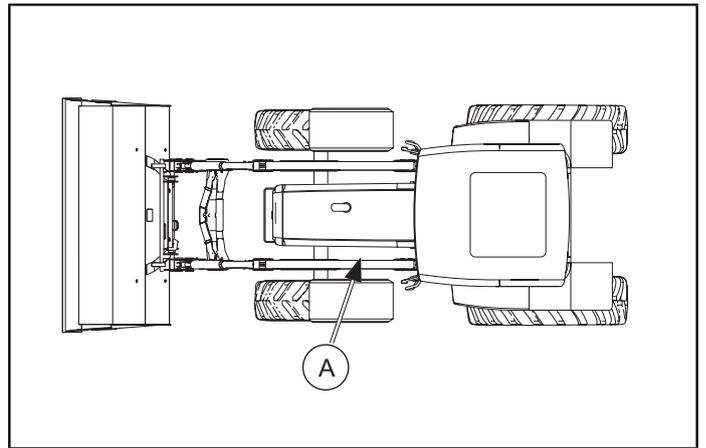


Fig. 2 Location of identification plate.

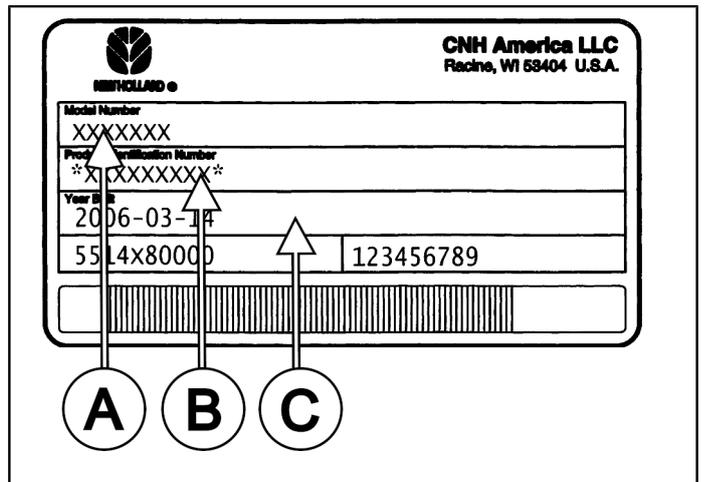


Fig. 3 Machine sign.

The subframe, accessories, cylinder, valve, control cables and hoses are fitted with type plates or stamped/printed part number.

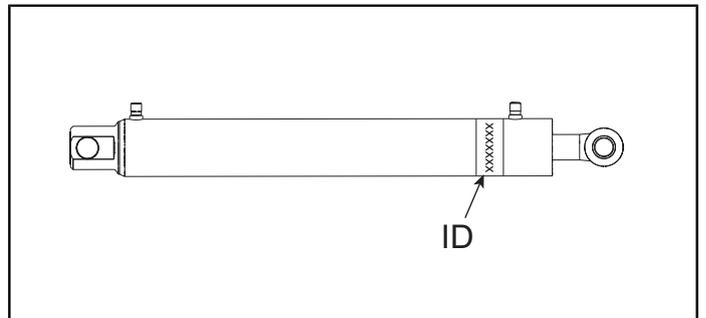


Fig. 4 Marking of components, e.g., cylinder.

When ordering control cables, specify the length (L) and ID.

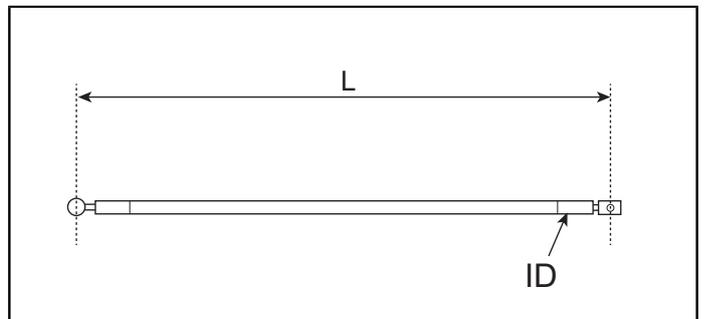


Fig. 5 Indicate length when ordering control cable.

1.3. Alignment reference

Throughout this service manual, reference is made to the left (A) and right (B) as seen from the operator's seat looking forward with the operating levers to the right of the operator.

NOTE: Some illustrations in this service manual may show a different model of tractor or loader, compared with your loader. The same information applies to your equipment unless otherwise specified.

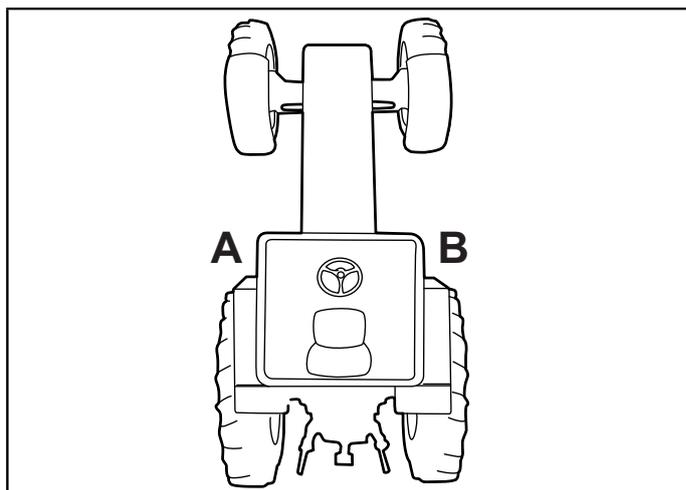
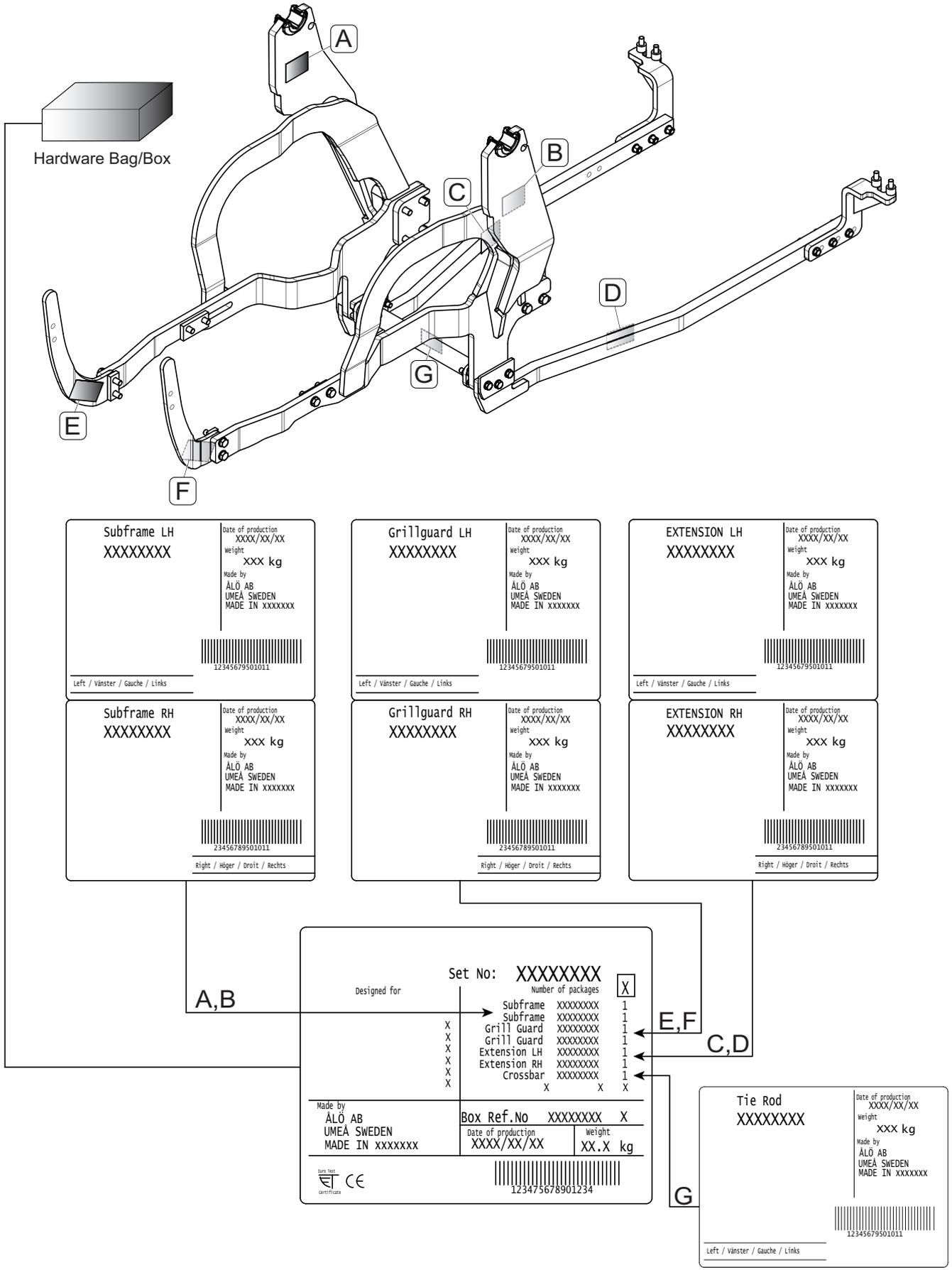


Fig. 6 Alignment reference

1.4. Setting joystick position

IMPORTANT: Adjust the joystick to achieve an ergonomic position.

1.5. Subframe identification



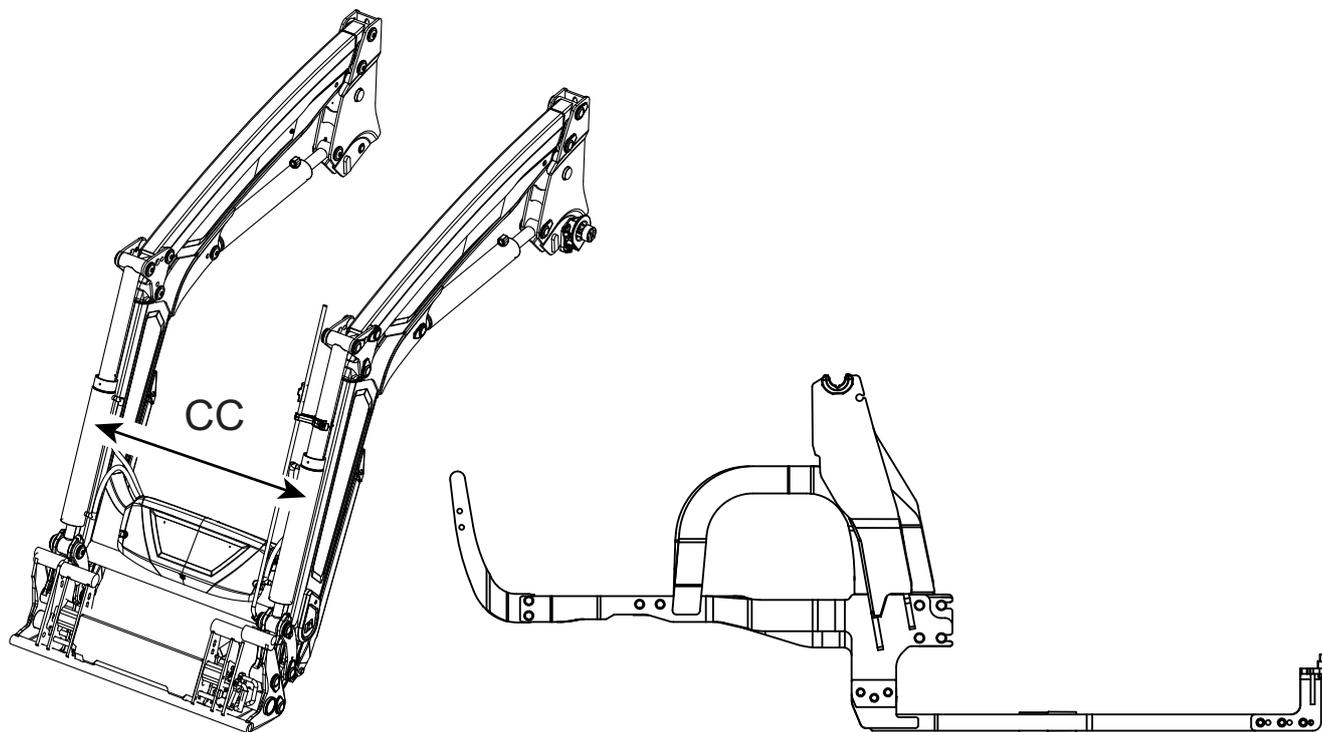
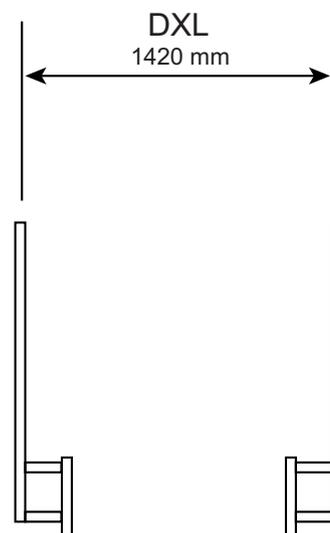
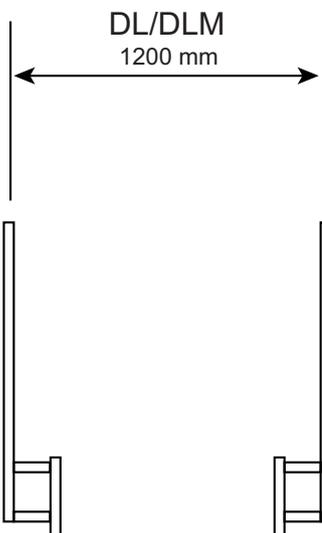
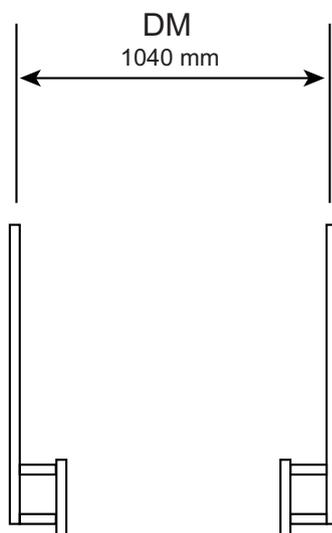
1.6. Subframe identification DM/DL/DLM/DXL

C/C = distance between loader arms. Available in the following widths:

DM - c/c distance = 1040 mm.

DL/DLM - c/c distance = 1200 mm.

DXL - c/c distance = 1420 mm.



2. DESCRIPTION AND DEFINITIONS

Not all accessories fit all loaders. Please contact your dealer for information on compatibility with your loader.

Not all accessories are available in all markets.

2.1. Description

The front loader is adjusted to:

- be installed on wheel-bound agricultural and forestry tractors.
- Handle various certified implements for lifting, carrying, cutting, scraping, grading, sweeping and plowing.



WARNING:

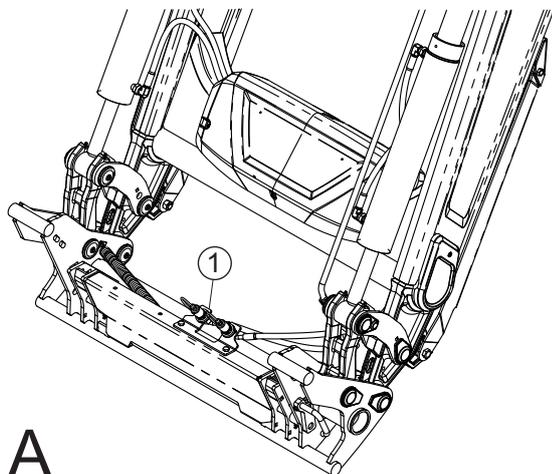
Risk of overturning; risk of crush and pinch injuries. Should any loader hose rupture, the loader, implement or load may drop uncontrollably. If a hose ruptures, correct the error immediately as per section 7. *Service - general*. When replacing parts, only use original spare parts to restore the machine to its original specifications. Decontaminate the soil in accordance with standards/laws applicable in the country or region you are in.

IMPORTANT: Faults in the power supply to the loader's electrical and/or hydraulic systems may mean that certain functions cannot be activated. For example: Raising the loader, opening the implement, third and fourth hydraulic functions etc.

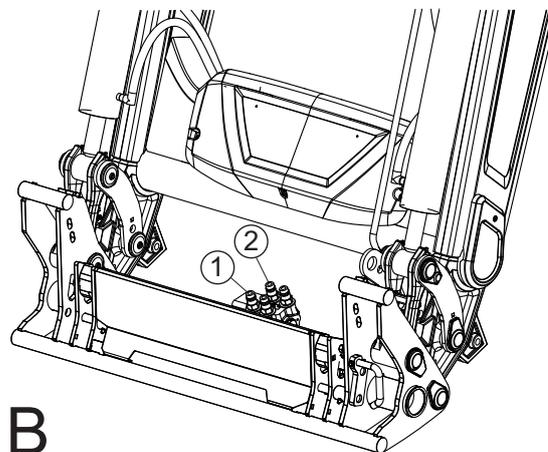
2.2. Definitions

2.2.1. Third/fourth hydraulic function

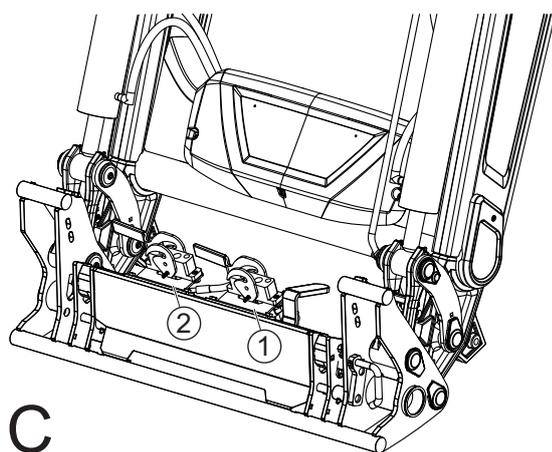
The loader can be equipped with a third hydraulic function (1) and a fourth hydraulic function (2) for operating hydraulic implements.



A



B



C

A Example: Third hydraulic function

B Example: Third and fourth hydraulic function

C Example: Third and fourth hydraulic functions with Selectofix

2.2.2. Live3 (active third hydraulic function)

The loader can be equipped with Live3.

Live3 is an active third hydraulic function that allows operation of the loader and the hydraulic implement simultaneously.

NOTE: Live3 will be supplied by the tractor if equipped.

2.2.3. Implement lock

The loader is equipped with a mechanical or hydraulic implement lock.

2.2.3.1. Mechanical implement lock type Click-on

Automatic implement locking upon connection.
Manual implement unlocking upon disconnection.

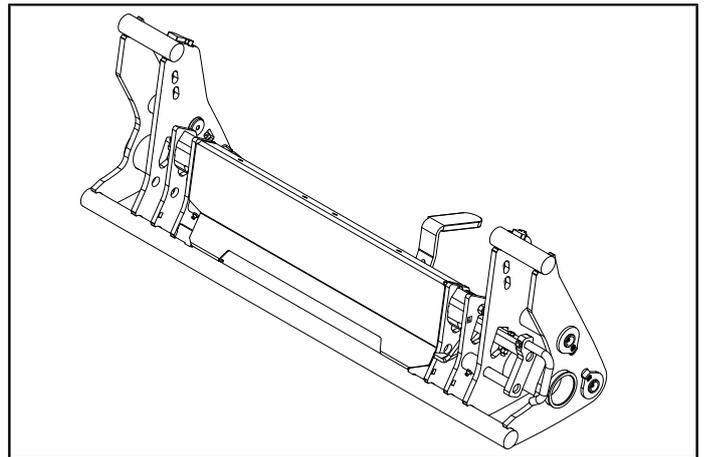


Fig. 7 Mechanical implement lock type Click-on

2.2.3.2. Hydraulic implement locking

Hydraulic implement locking upon connection.
Hydraulic implement unlocking upon disconnection.

Locking and unlocking via a joystick in the operator's position.

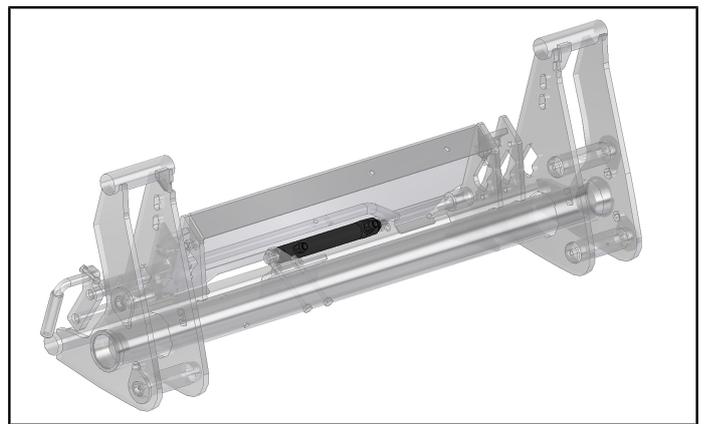


Fig. 8 Illustrations: Hydraulic implement locking

2.2.4. Hydro Quick / Multi-coupler MC4

Multi-couplers facilitate connection and disconnection of the loader hydraulics to the control valve. The risk of incorrect connection and oil spills is eliminated.

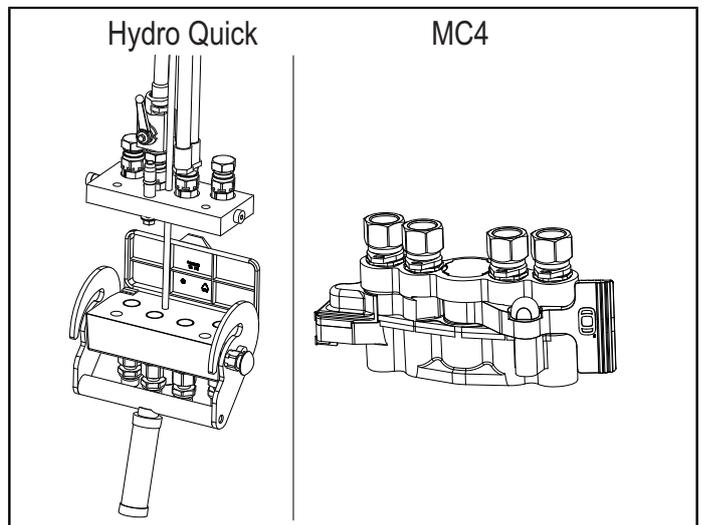


Fig. 9 Multi coupling: Hydro Quick / Multi coupling MC4

2.2.5. Single couplers

Connection and disconnection of the loader's hydraulics to the control valve using single ISO-A couplers (ISO7241 1/2") or flat face couplers (ISO16028 3/8").

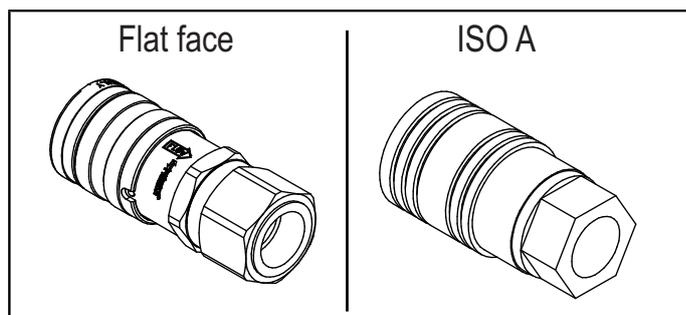


Fig. 10 Single couplers: Flat face / ISO A

2.2.6. Multicoupler 2 (MC2)

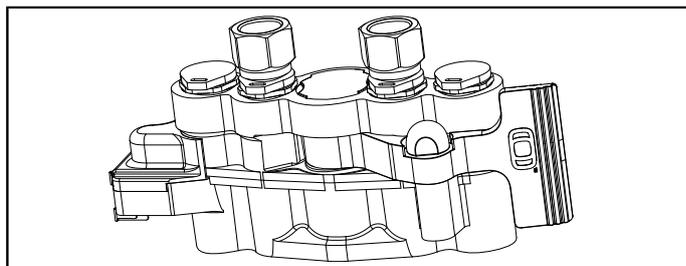


Fig. 11 Multicoupler 2 (MC2)

2.2.7. Lock & Go

Automatic coupling between loader and subframe.

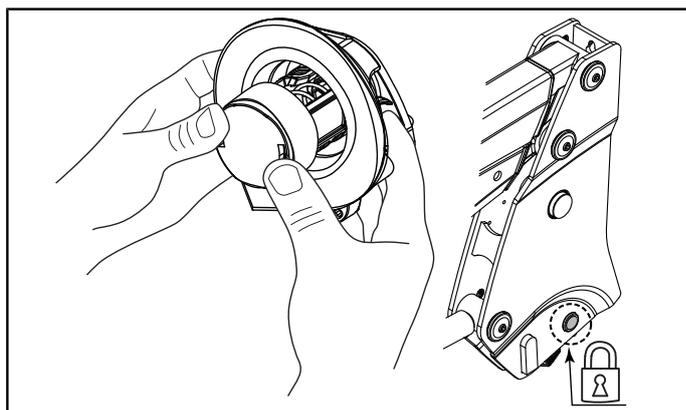


Fig. 12 Lock & Go, green indicator shows loader is locked to subframe.

2.2.8. Position indicator

The indicator shows the implement angle relative at the ground level.

The indicator can be adjusted as necessary, depending on the implement in use or the desired indication angle.

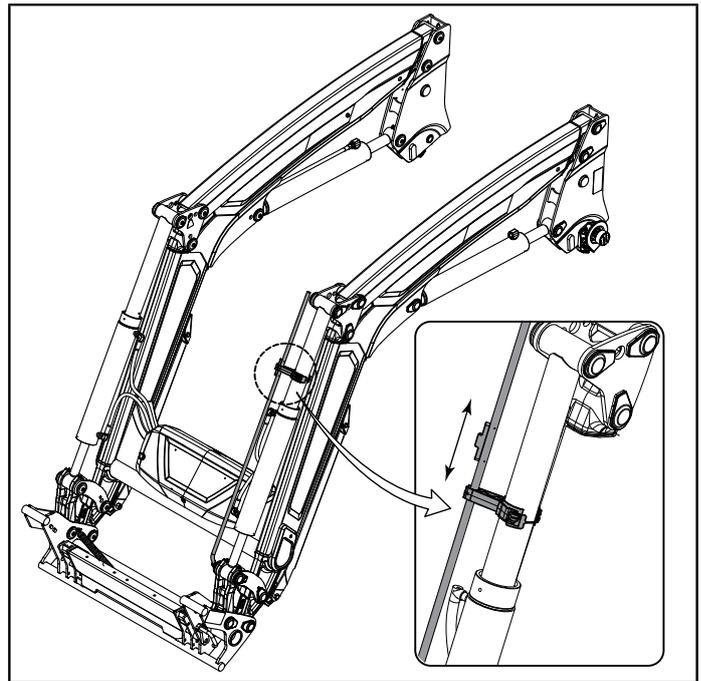


Fig. 13 Position indicator

2.2.9. Compact Valve Unit (CVU)

Loader diverting valve. The valve distributes hydraulic fluid for raising/lowering, opening/emptying, 3rd/4th hydraulic functions, boom suspension and the hydraulic implement lock.

Compact Valve Unit (CVU):

- Integrated shock valve to protect the implement cylinder (tilt).
- Third hydraulic service module.
- Fourth hydraulic service module.

3rd service must be installed to be able to use the 4th service.

- Hydraulic lock module

3rd service or Live3 must be installed to be able to use the hydraulic lock

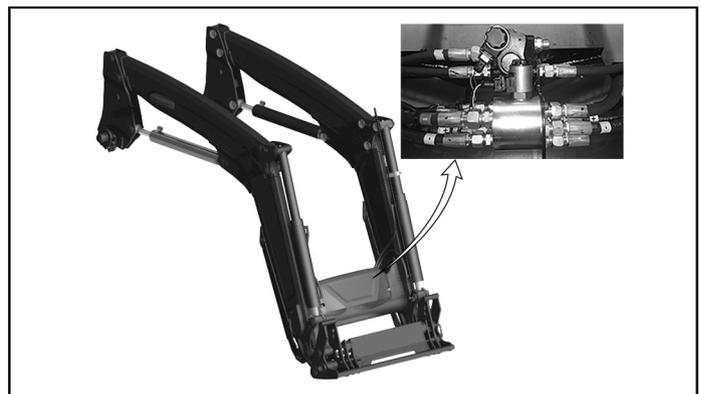


Fig. 14 Diverting valve, Compact Valve Unit (CVU)

2.2.10. Hydraulic implement connection, Multi-coupler

Facilitates connection and disconnection of implement hydraulics to the third and fourth hydraulic functions. The Multi-coupler eliminates the risk of incorrect connection and oil spillage.

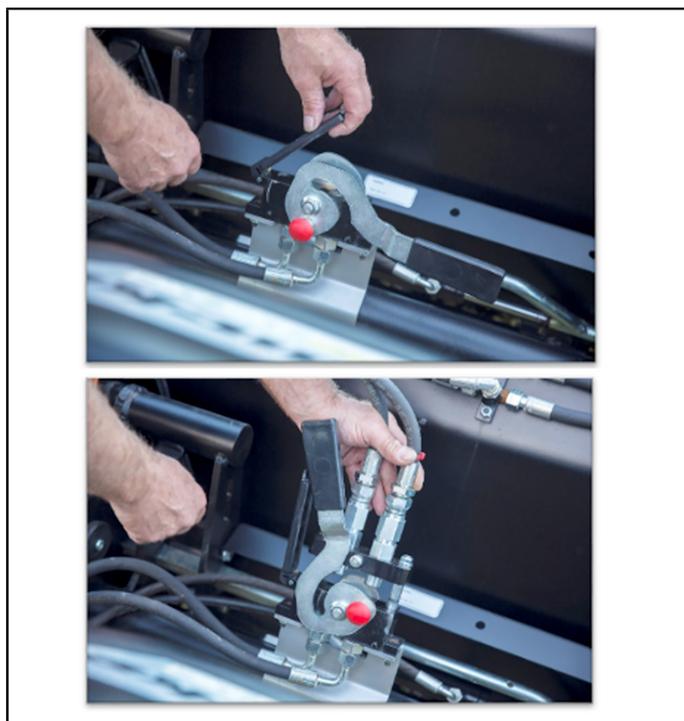


Fig. 15 Hydraulic implement connection

2.2.11. Hose kit

Hoses and hydraulic components for connecting the loader to the tractor's own control valve.

2.2.12. Soft Ride, Load Damping System

Improves operator comfort.

Secures the load; reduces the risk of the load falling from the implement.

Reduces stress on the tractor and loader when driving on rough surfaces.

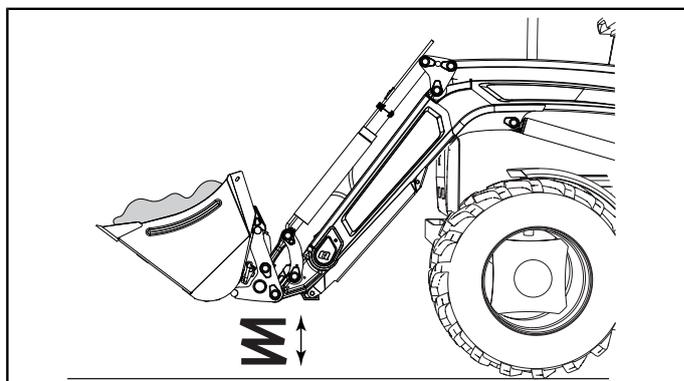


Fig. 16 Load Damping System

2.2.12.1. Electric shut-off, boom suspension

Joystick button to activate or deactivate the loader's boom suspension function.

If the loader is controlled using the tractor's own joystick, there may be a separate button that activates/deactivates the boom suspension function.

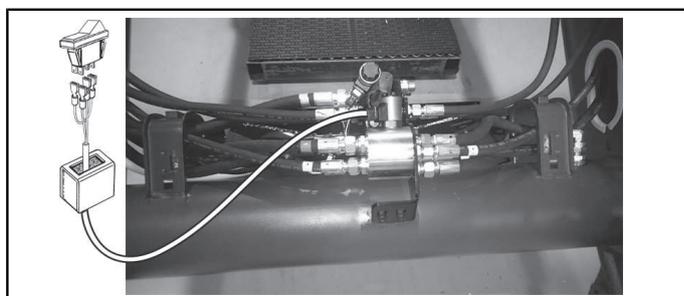


Fig. 17 Electric shut-off, load damping function.

2.2.13. Material buckets

63" (160 cm), 73" (185 cm), 83" (210 cm), 95" (240 cm)



Fig. 18 Material buckets

2.2.14. Heavy Duty Material Buckets

73" (185 cm), 83" (210 cm), 95" (240 cm), 102" (260 cm)



Fig. 19 Heavy Duty Material Buckets

2.2.15. Construction Tooth Buckets

63" (160 cm), 73" (185 cm), 83" (210 cm)

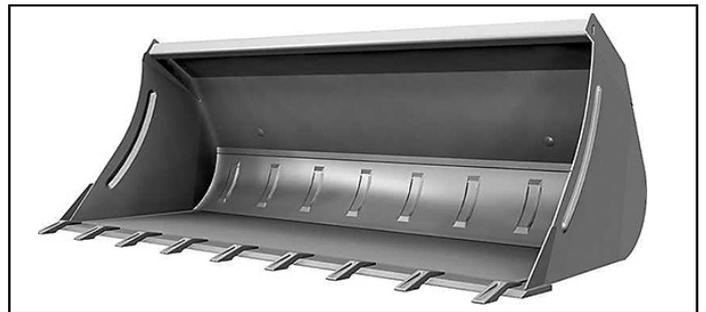


Fig. 20 Construction Tooth Buckets

2.2.16. Light Material/ Snow Buckets

79" (200 cm), 83" (210 cm), 87" (220 cm), 95" (240 cm), 102" (260 cm)



Fig. 21 Light Material/ Snow Buckets

2.2.17. Fork Lifts

38" (160 cm), 47" (250 cm)



Fig. 22 Fork Lifts

2.2.18. Log Grab Attachment for Fork Lifts

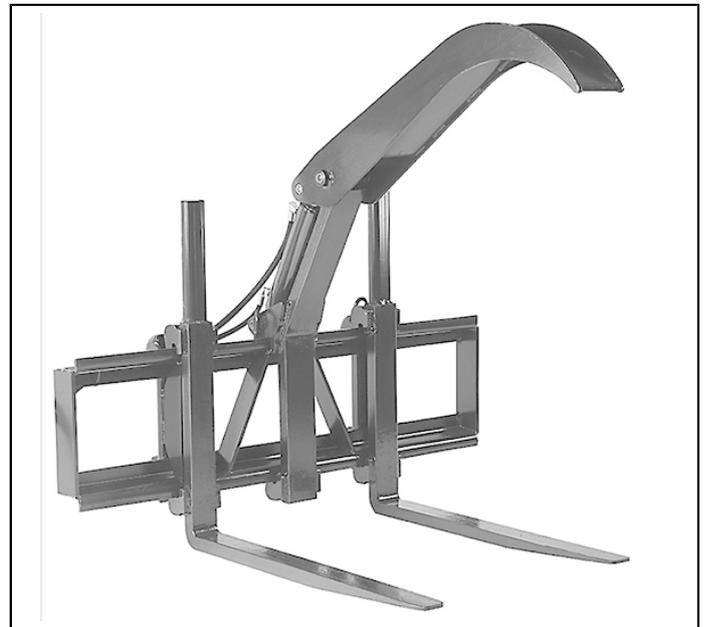


Fig. 23 Log Grab Attachment for Fork Lifts

2.2.19. Bale spike



Fig. 24 Bale spike

2.2.20. Big Bale Fork / with Backstop



Fig. 25 Big Bale Fork / with Backstop

2.2.21. Grapple with optional backscreen

Available with either tine floor bucket or standard floor bucket.

83" (210 cm), 95" (240 cm), 102" (260 cm)

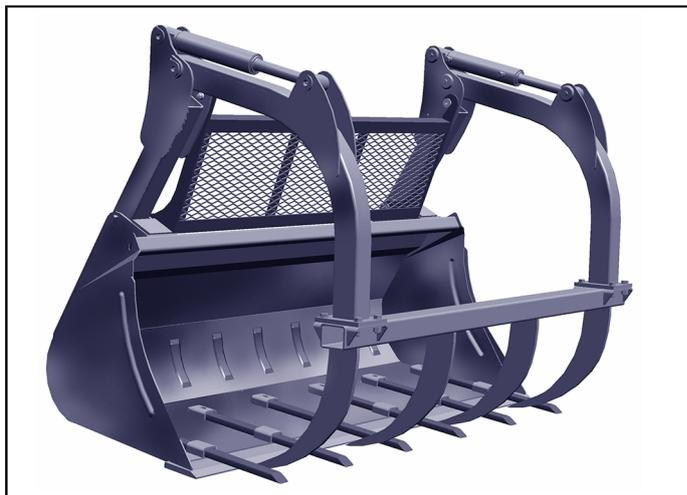


Fig. 26 Grapple with optional backscreen

2.2.22. Flexigrip 160, 200

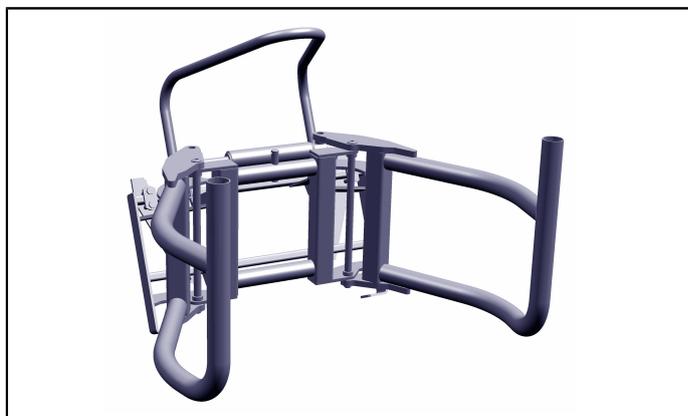


Fig. 27 Flexigrip 160, 200

2.2.23. Quadrogrip 200

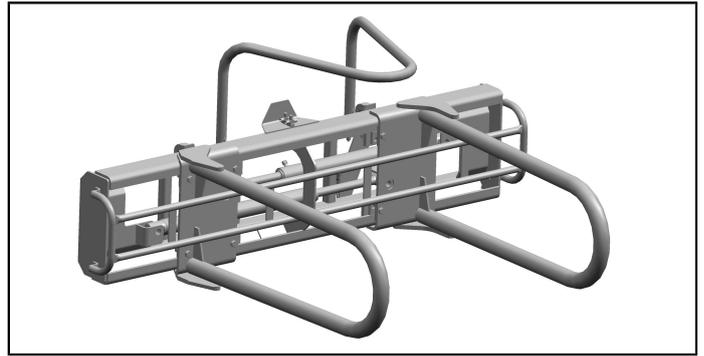


Fig. 28 Quadrogrip 200

2.2.24. Weld on Hook Set

Not all attachments are suitable for all loaders. See your dealer for suitable attachments to fit your loader.

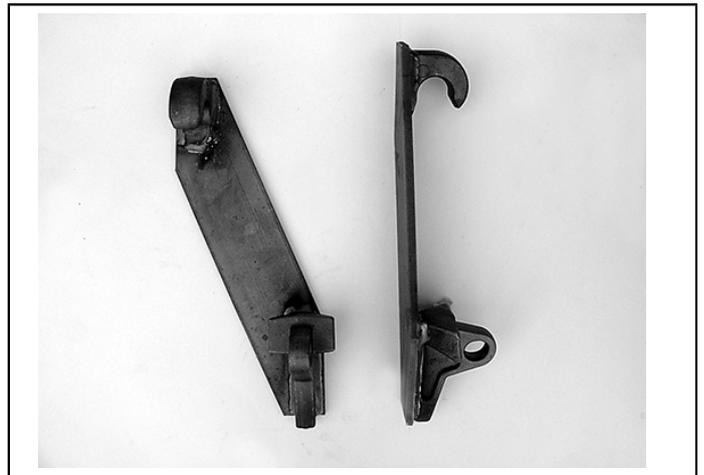


Fig. 29 Weld on Hook Set

2.2.25. Systems DM, DL and DXL

C/C = distance between loader arms. Available in the following widths:

DM - c/c distance = 1040 mm.

DL/DLM - c/c distance = 1200 mm.

DXL - c/c distance = 1420 mm.

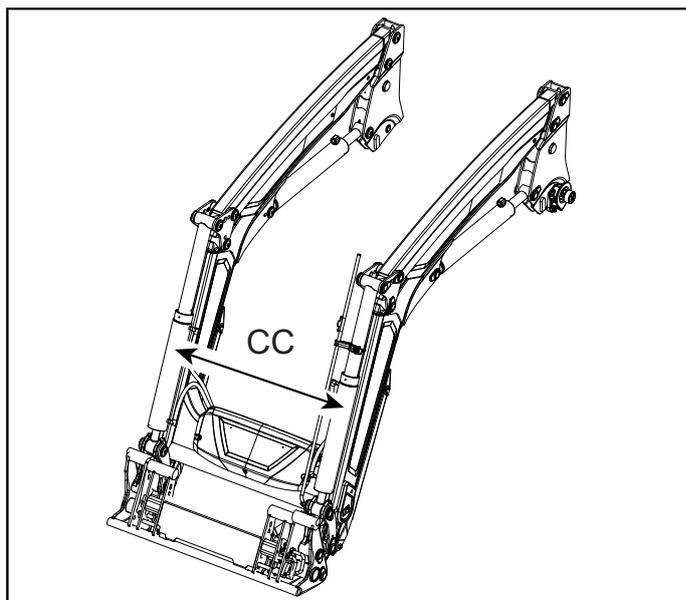


Fig. 30 C/C distance

2.2.26. Mechanical Self Levelling loader, MSL

Mechanical Self Levelling loaders improve safety, precision and operating speed. The parallel links keep the implement at the same angle relative to the ground throughout raising and lowering.

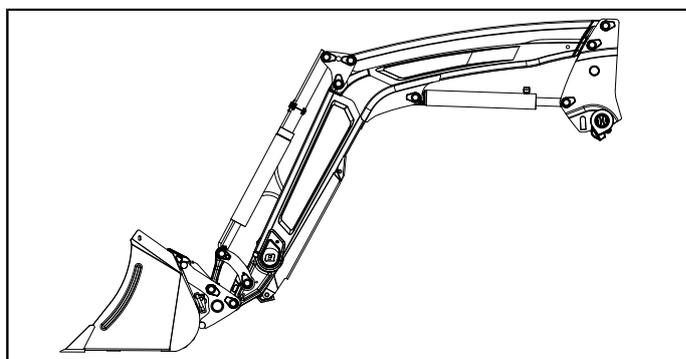


Fig. 31 Mechanical Self Levelling loader, MSL - overhead P-link (Mechanical Self Levelling)

2.2.27. Non-Self Levelling loader, NSL

The Implement changes its angle in relation to the ground throughout raising and lowering.

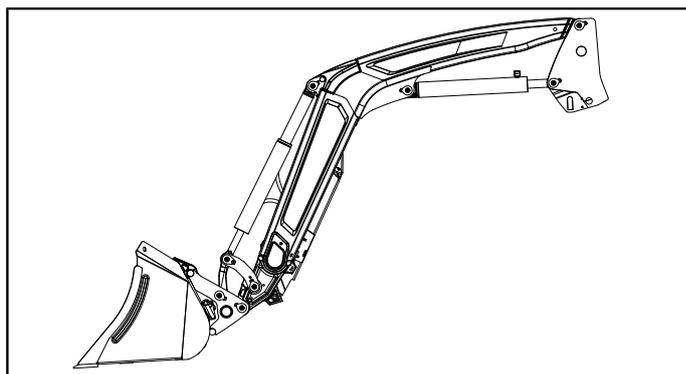


Fig. 32 Non-Self Levelling loader, NSL (Non Self Levelling)

2.2.28. Tool carrier

The most common tool carrier is the Euro(8), designed according to Euro standard ISO 23206.

Implements can be locked automatically (Click on) or manually when coupled.

Hydraulic implement locking is available as an accessory.

Only use implements that are suitable for the loader and its tool carrier.

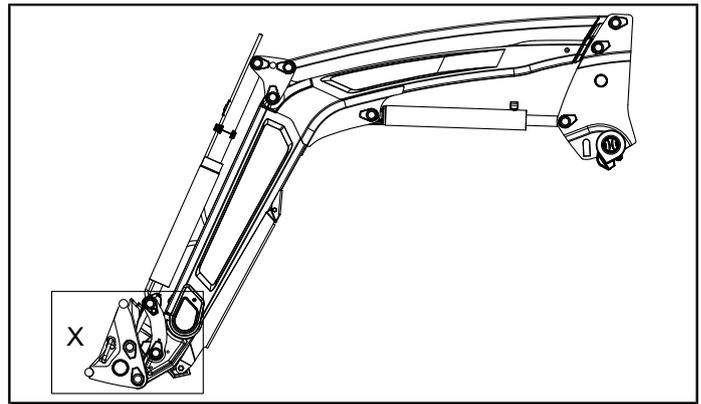


Fig. 33 The loader is fitted with a tool carrier which is compatible with EURO(8) implement hooks.

2.2.29. Implement

Depending on the loader model, there are different types of COMBI tool carriers to fit two different types of tool hooks; see 2.2.28. *Tool carrier* for more information.

Each implement has an identification plate (A) with an identification number. The plate is located on the back of the implement.

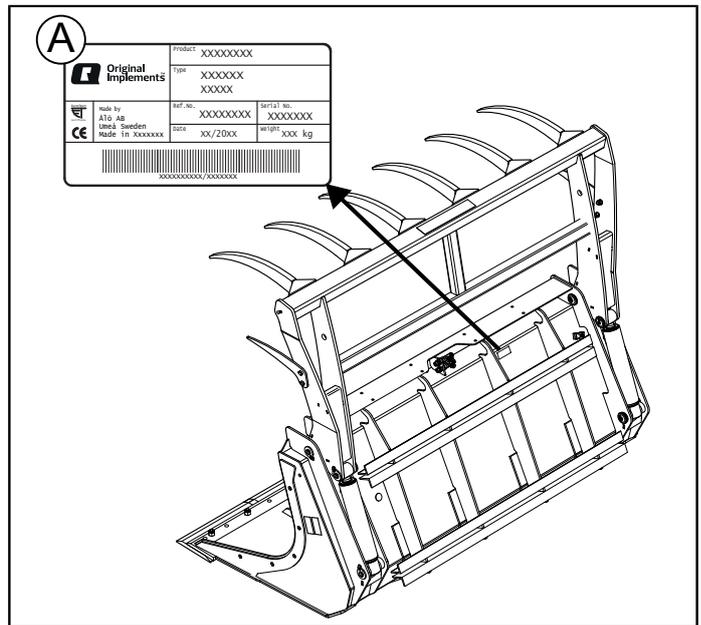


Fig. 34 Example of a type plate, implement

2.2.30. Implement hooks

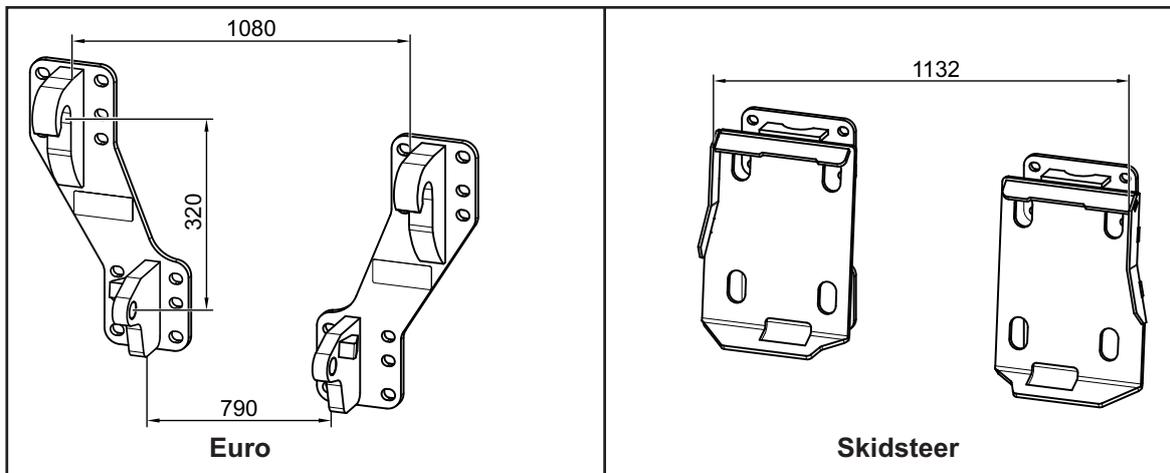


Fig. 35 Implement hooks, examples

2.2.30.1. Identification, Skidsteer implement

See 2.2.30. *Implement hooks* for identification dimensions.

2.2.30.2. Identification, Euro implement

See 2.2.30. *Implement hooks* for identification dimensions.

3. SAFETY INSTRUCTIONS

3.1. General information

The operator's safety and safety during maintenance are two of the most important things to consider when designing a new loader. As many safety features as possible are incorporated into the design. Every year, many accidents take place that could be avoided with a few seconds' reflection and more careful loader/tractor operation and maintenance.

Avoid personal injury. Read the following personal safety instructions and insist that everybody who works with you, or for you, also complies with the instructions.

Only use implements that are approved by the manufacturer for use with the loader and control system.

Incorrectly designed implements may cause personal injury and damage to the loader. For this reason, do not install third party implements without making sure they have been approved by the loader manufacturer.

3.1.1. Guards

This service manual contains a number of illustrations which show the guards removed, to give a better picture. Never use the machine with the guards removed. If a guard has been removed for service/repairs, re-install the guard before the machine is taken back into service.

3.1.2. Warning, prohibition and information decals.

Warning, prohibition and information decals are located in various places on the loader. Locate, read and find out what the decals mean before using the loader/implement or performing any service on the loader or control system. See section 3.9. *Location of warning, prohibition and information decals (EU)* 3.10. *Location of warning, prohibition and information decals (NAFTA)*.

Do not cover or remove any of the decals. If a decal is missing or illegible, replace it with a new decal. New decals are available for order; see spare parts sheet.

3.2. Explanation of warning levels

When you see the safety symbol and the signal word on decals or in the service manual, the instructions MUST be followed as they concern your own personal safety.



DANGER:
Means an imminently hazardous situation that, if not avoided, will result in DEATH OR VERY SERIOUS INJURY.

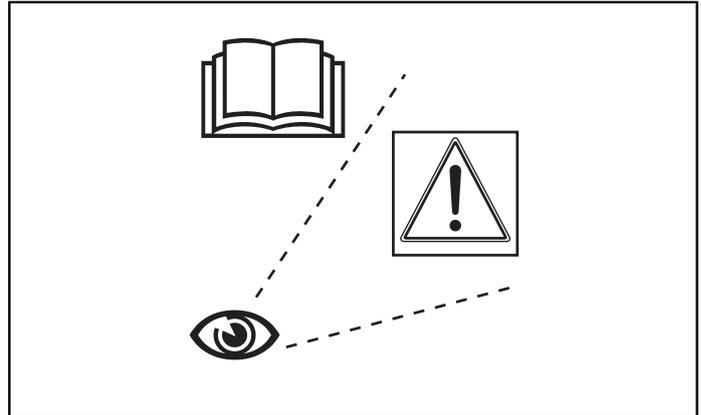


Fig. 36 Locate, read and find out what the safety signs mean before using the loader and implement.



Fig. 37 Safety alert symbol

 **WARNING:**
Indicates a potentially hazardous situation that, if not avoided, could result in **DEATH OR SERIOUS INJURY**.

 **CAUTION:**
Indicates a potentially hazardous situation that, if not avoided, may result in **MINOR OR MODERATE INJURY**.

The following texts and instructions do not apply to personal safety, but are used throughout the service manual to provide additional tips about operation or service of the machine.

IMPORTANT: Indicates a special instruction or procedure which, if not strictly followed, may result in damage to, or destruction of, the machine, the process, or surroundings.

NOTE: Indicates additional information about a subject or procedure for more efficient or convenient repair or operation.

3.2.1. Symbol explanation

A User manual. Read the user manual; it contains important information for your safety.



B Safety alert symbol. Means CAUTION! BE ALERT! YOUR SAFETY DEPENDS ON IT! The safety alert symbol identifies important safety notices on machines, safety signs, in operator's manuals or elsewhere. When you see this symbol, be alert to the risk of injury or death. Follow the instructions in the safety notice.



C Implement lock. ALWAYS make sure connected tools are locked in place.



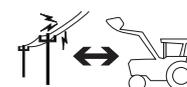
D Pinch risk. Never stand between the front of the tractor and the loader.



E Risk of falling. Do NOT use the loader to lift or transport people. Do NOT use the loader or the implement as a working platform.



F Electric shock. Get to know the site and the ground. Be aware of overhead power lines and other obstructions.



0111

G Overturning risk. The tractor can overturn and result in personal injury.



H Pressurized accumulators may be present in the hydraulic system.



I Crush risk. Objects can fall or roll backwards when the loader is raised. Only lift loads which can be secured by the implement.



3.2.2. Responsibility

Always store this operator's manual as well as the tractor's own operator's manual in the tractor.

- If there is no operator's manual included with the tractor/loader, ask for one from the dealer before fitting and using the loader.
- Read through all material carefully and learn how to operate the equipment in a safe and correct manner.
- Only allow qualified personnel to operate the tractor/loader/implement.

Only use the loader and implement for their intended use.

Passengers riding in the tractor must use the passenger seat provided by the tractor manufacturer.

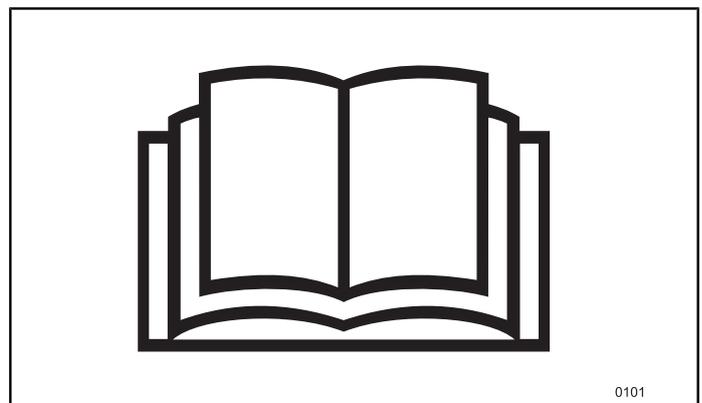


Fig. 38 Always stow the loader's user manual as well as the tractor's own user manual in the tractor.

3.3. Installing the loader

The loader must not be connected in series with any of the tractor's functions. Working with the loader requires the operator's full attention.

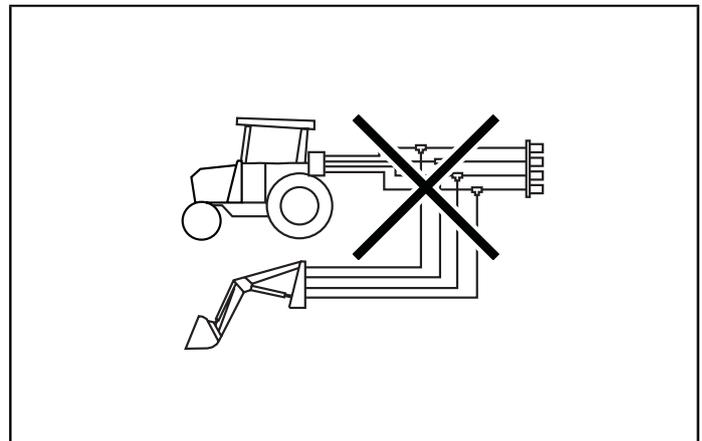


Fig. 39 The loader must not be connected in series with any other of the tractor's functions.

Pressurized oil.

Hydraulic oil at high pressure can be injected into the body in the event of leakage leading to serious injuries, blindness or fatality. Leakage may be invisible.

Use approved safety goggles and protect the skin using e.g. strong leather gloves. Use cardboard or similar material for leakage detection. If hydraulic fluid has penetrated the skin then it **MUST** be removed immediately by a physician able to treat this type of injury. Seek medical attention immediately if hydraulic fluid penetrates your skin. Serious reactions and/or infections can rapidly occur if the hydraulic fluid is not surgically removed at once.

Connecting/locking the loader in place on the subframe; see 5.2. *Connection – Front loader with subframe.*

Checklist - Loader installation:

When the loader has been installed - check carefully that everything works before it is taken into service. Check the following and take the necessary measures.

1. Check that everything has been installed in accordance with the installation instructions.
2. Check that the required counterweight is fitted with respect to the implement and application.
3. Check that all screws have been tightened.
4. Check that the front wheels clear the loader and subframe at full wheel lock and front axle oscillation; if this is not the case, adjust tractor track and/or the oscillation stops or limit steering lock.
5. Make sure the loader is locked in place in the subframe. The green end of the Lock & Go locking pin must be visible on the inboard sides of the right and left bearing boxes.
6. Check that there are no oil leaks.
7. Operate all loader functions several times to remove air from the system.
8. If the loader is equipped with a hydraulic implement lock, the lock must be continuously operated to its end positions (locked/open) for 3 minutes to remove all air from the lock cylinder. At each end position, allow the hydraulic pressure to build up to max system pressure; hold for around 1 second. **NOTE!** No implement may be connected when venting the lock cylinder.
9. Check the tractor hydraulic fluid level - top up as necessary.
10. Check that the implement lock pins engage when connecting a implement by pressing the front section of the implement against the ground.



Fig. 40 NEVER use fingers or hands to detect leaks.

11. Check that the loader does not have any visible defects.

IMPORTANT: Loader installation on tractors without cabs: Make sure no hoses are closer than 1 meter from the operator in the normal operating position. If there are hoses closer than 1 meter, the Hose Protection accessory must be used. Contact technical support at Ålö for further information.

IMPORTANT:

Unexpected movement when the loader's joysticks are actuated. It is not permitted for both the loader and other hydraulic equipment to move simultaneously.

Should this occur, you **MUST** immediately: Unhitch the loader as per section 5.4. *Disconnecting-Front loader with subframe* or deactivate the hydraulic function that moves simultaneously with the loader.

3.4. Joystick operation

See your tractor operator's manual for joystick operating instructions

3.5. Protection equipment

3.5.1. Service

Always use safety equipment suitable for the task, e.g. protective clothing, shoes and gloves, hi-viz vest (high visibility clothing), goggles, hardhat, ear protection and respiratory protection.

Do NOT wear rings, wrist watches, jewelry, or flapping, loose or open garments such as a necktie or scarf etc. that may get caught in moving parts. Long hair must be tied behind the head.

Always wear goggles when cleaning components with compressed air.

3.5.2. Welding

Always use suitable safety equipment when welding such as safety shoes, gloves and a welding helmet with approved eye protection. NEVER look directly at the arc without approved eye protection.



Fig. 41 Use suitable safety equipment.

3.5.3. Safety belt

Seat belt must be worn and correctly adjusted during machine operation except when operating with the ROPS folded down. Replace a damaged seat belt before operating the machine.

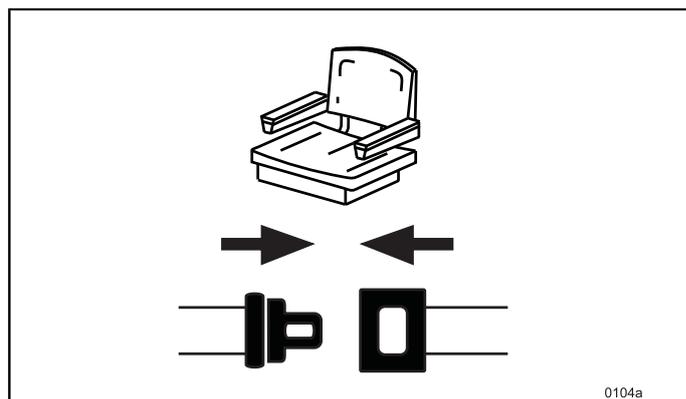


Fig. 42 Wear the seat belt when operating the machine.

3.5.4. ROPS, Rollover protection structure

The tractor must be fitted with ROPS, frame or cabin. Use the loader only on a tractor with the ROPS installed. Whenever possible, operate the tractor and loader with the ROPS in the upright and locked position and the seat belt fastened and correctly adjusted. When operating in restricted overhead environment with the ROPS folded down, do not wear the seat belt. ALWAYS return the ROPS to the upright and locked position as soon as operating conditions permit.



Fig. 43 Rollover risk - wear the seatbelt.

3.6. Operation

3.6.1. Before work

Familiarize yourself with the working area and terrain. ALWAYS inspect the work area before starting work. Look out for holes in the ground, stones and other hazards.

- Do NOT drive a machine that is damaged or missing components. Make sure the recommended maintenance work has been done before the machine is used.
- Check all controls regularly and adjust as necessary. Make sure that the tractor's brakes are adjusted correctly.
- Check all nuts and bolts regularly for tightening, especially tractor wheel fasteners and subframe fasteners. See section 13. *Tightening torques* for information regarding tightening torque for the loader and the loader subframe.
- Make sure that the loader is correctly mounted to the tractor, and that all pins are secured.
- Make sure pivot points are greased.
- Change worn components before using the machine.

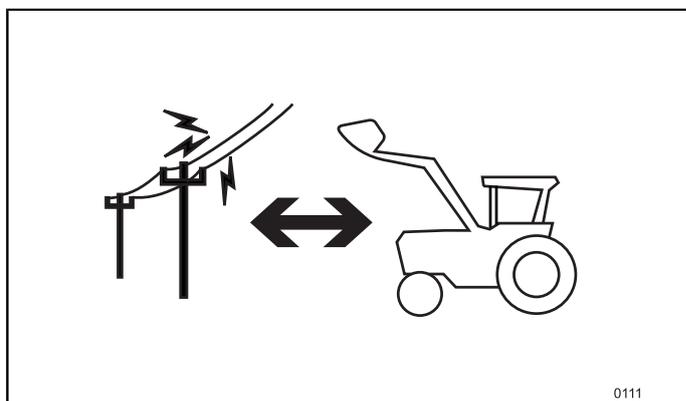


Fig. 44 Get to know the working area before starting. Keep a safe distance from power lines and other obstacles.

3.6.2. Operator/driver location

Only operate the machine when sitting in the operator's seat.

- Drive carefully and think about safety.
- Always leave the brake pedals locked to each other. NEVER use split brakes with a loader mounted to avoid the risk of losing control of the tractor and/or the tractor overturning.
- Always adjust the speed to prevailing conditions. Never drive so fast that you cannot stop quickly in an emergency situation.



Fig. 45 Only operate the machine when sitting in the operator's seat.

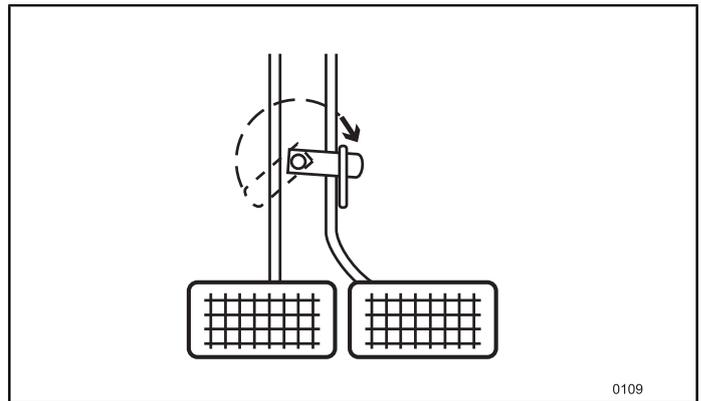


Fig. 46 Always leave the brake pedals locked to each other.

3.6.3. Connecting implement

3.6.3.1. Manual implement lock

Risk of crushing and pinching

Incorrectly locked implements may come loose. The locking lever must be back in its locked position (1). ALWAYS make sure the connected implement is locked in place by pressing the front of the implement against the ground (2).

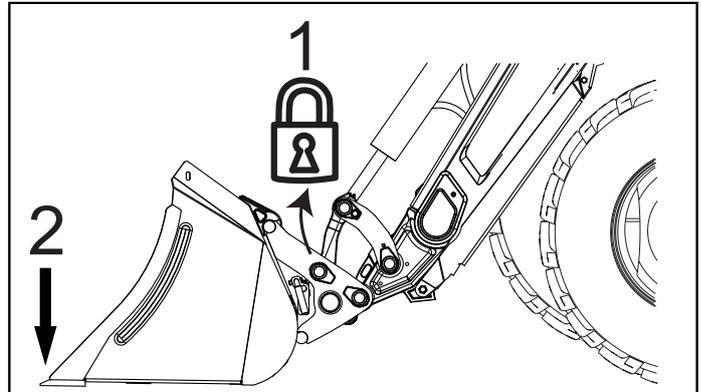


Fig. 47 Check that the implement is secured by pressing its front end against the ground.

Tool carrier lock indicators look different depending on the type of tool carrier installed on the loader. Carefully check how YOUR tool carrier indicates a locked implement.

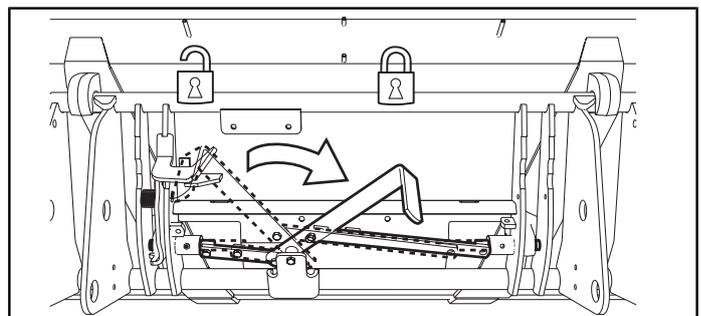


Fig. 48 Example: Locking lever indicates locked implement (locked padlock symbol)

Product: New Holland 810LA/815LA/830LA/835LA/850LA/855LA/857LA/910LA/915LA/917LA/935LA/937LA/975LA Farm L

Full Download: <https://www.aresairmanual.com/downloads/new-holland-810la-81>

Use the following checklist to make sure the implement is correctly locked onto the loader's tool carrier:

- Visually check that the locking lever indicates locked implement.
- Visually check that the tool carrier locking pins are in the locked position.
- Make sure the implement is locked in place on the tool carrier by pressing the front of the implement against the ground.

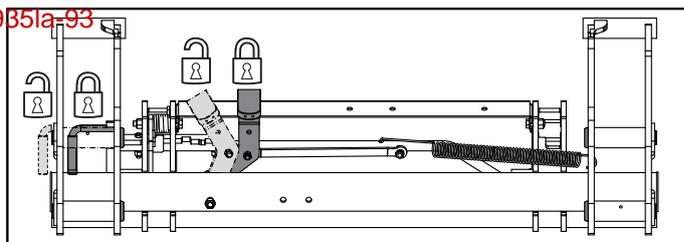


Fig. 49 Example: Locking levers indicate locked implement (locked padlock symbol)

3.6.3.2. Hydraulic implement lock

Risk of crushing and pinching

Incorrectly locked implements can come loose.

The lock indicator should return to locked position. Ensure AT ALL TIMES that the connected implement is locked in place by pressing the front section of the implement towards the ground.

Tool carrier lock indicators look different depending on the type of tool carrier installed on the loader. Carefully check how YOUR tool carrier indicates a locked implement.

Use the following checklist to make sure the implement is correctly locked onto the loader's tool carrier:

- Visually check that the lock indicator shows locked implement.
- Visually check that the tool carrier locking pins are in the locked position.
- Make sure the implement is locked in place on the tool carrier by pressing the front of the implement against the ground.

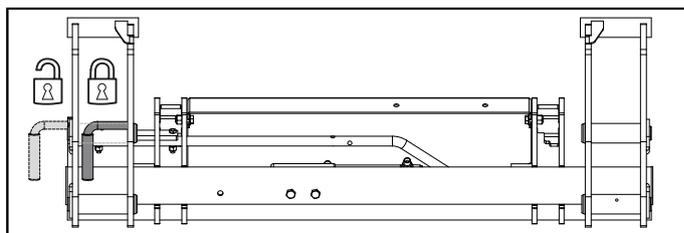


Fig. 50 Lock indication

3.6.4. Workplace

Always check the machine's surroundings and ensure that all individuals, especially children, and animals have moved away before starting or operating the machine.

Risk of crushing and pinching

People may be inside the working area.

Make sure that nobody is in the vicinity of the tractor when work starts and is in progress. Only operate the tractor when sitting in the intended place in the operator's seat.

You may not hear warning cries from individuals on the outside when you are sitting in the cab with the door closed.

Learn the working area and terrain before beginning work. Pay attention to vertical clearance and limitations that arise due to the increased reach.

Electric shock, crushing and pinch risk. When driving with a raised loader, make sure that there is enough room between the loader/implement and e.g. power lines and barn roofs.



Fig. 51 Before starting, make sure nobody is in the vicinity of the machine.

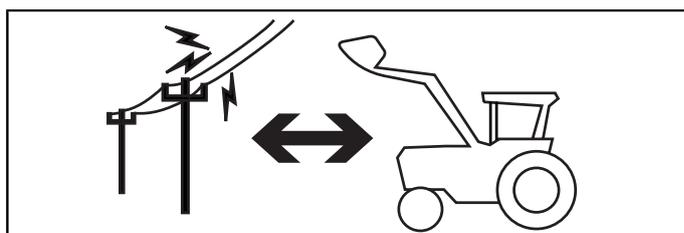


Fig. 52 Get to know the working area before starting. Keep a safe distance from power lines and other obstacles.

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