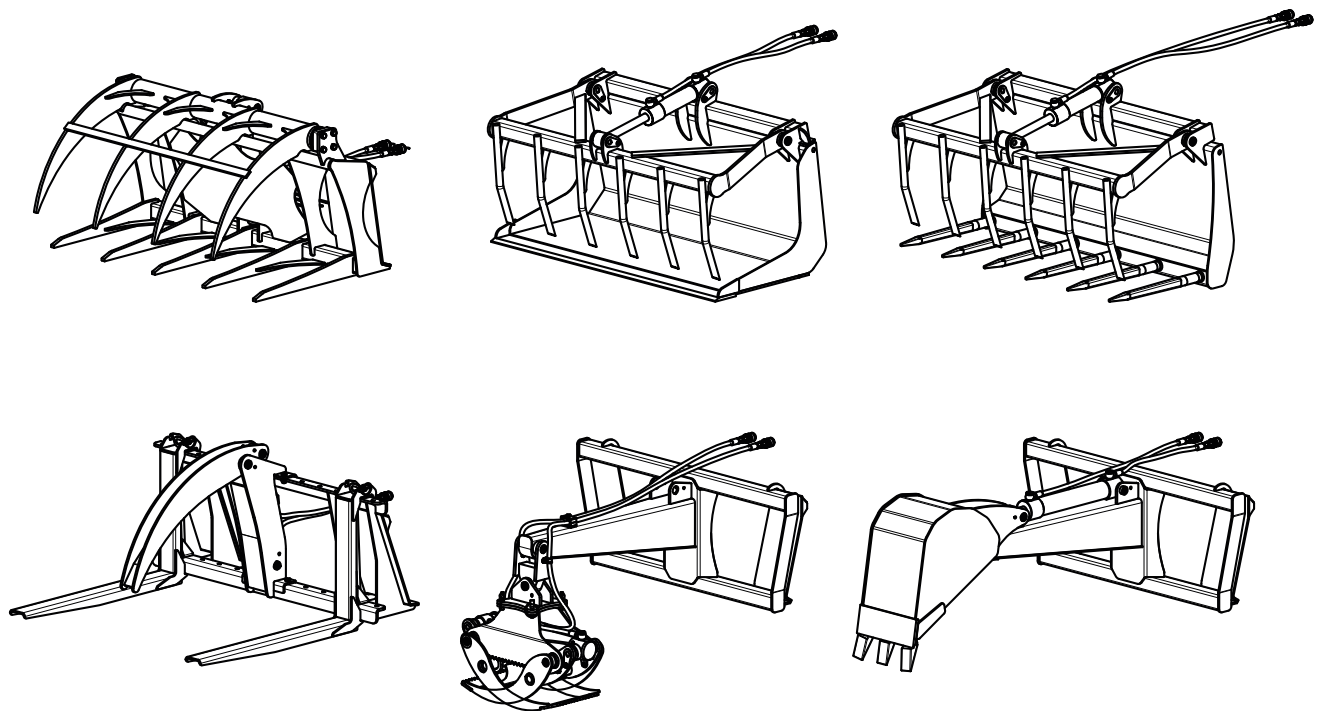


Operating Instructions

Implements for

front loaders **CompactLine FC**



Grip fork

Bucket with grapple

Fork with grapple

Top loading grip

Logging tongs

Shovel bucket



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1 About this manual

1.1 Documentation Overview

There are various instruction manuals and technical documentation for the front loader, mounting kit and accessories. Most documents are available in multiple languages.

If you are missing an instruction manual or you need an instruction manual in another language, you can order these from your dealer. Many instruction manuals can be downloaded for free on the Internet at <http://www.stoll-germany.com>.

Installation instructions

The installation instructions describe how to install the front loader mounting kit and the hydraulic and electrical equipment up to the first start-up of the front loader. They are intended for the workshop.

The installation instructions have been specially compiled for this tractor model. They do not contain any information that is already included in the operating instructions.

The installation instructions contain information on spare parts for the tractor-specific attachment components and equipment.

Operating instructions of the front loader

The operating instructions describe the safe use of the front loader from the initial start-up to its disposal. They are intended for the operator and the user of the front loader.

The operating instructions are compiled specifically for the front loader series, they can therefore only take tractor-specific equipment into account to a limited extent.

Spare parts list

The spare parts list of the front loader lists all the information required for ordering spare parts, the front loader series and their options. Specific adjustments for the tractor are not taken into account.

In addition, spare parts lists are available for front loader implements.

Operating instructions for front loader implements (this document)

These operating instructions describe the implements with hydraulic functions that are available for the front loader.

Other documents

In addition to the above instruction manuals, there may be installation and operating instructions as well as other *Technical Information* that deal with special additional equipment and extensions, which are not included in the other documentation.



When you pass on the front loader or the tractor with a front loader attached, please also hand over all the relevant documents! The next owner needs the information!

1.2 What to do with these operating instructions

These operating instructions and the operating instructions for the front loader are designed to help you learn how to safely use the front loader and its implements.

- You must first of all read the safety chapter, for your own protection and for the protection of those around you!
- Familiarize yourself with the functions and how to operate both the front loader and its implements. Make sure that you also follow the operating instructions of the front loader!

Information about the layout of this manual:

To help you find the information you need in this manual quickly, we have used the following "tools":

Contents at the beginning of the manual

Differently styled texts:

The plain text without special labeling explains situations and contexts.

- Text with a dot: Here you can or have to do something.
- ✓ This symbol indicates the conditions that must be fulfilled before you start the following operations.
- ✂ This symbol indicates the tools you need.
- 1. Text with a number: As the point, but there are several steps.



Text with a pointing finger: Here you will find information that is particularly important!

1 **Caption:** Specifies the names of the position numbers in the images.

Bold numbers in brackets (**1**) also refer to the item numbers in the pictures.

Warnings are marked off with a line underneath, above which there is a signal word on a coloured background:

DANGER!

These notes warn against hazards that result in serious injury or death.

- The dot indicates the necessary safety measures.

WARNING!

These notes warn against hazards that may cause serious injury or death.

- The point here too identifies the necessary safety measures.

CAUTION!

These notes warn against hazards that could result in minor and moderate injury.

- The point here too identifies the necessary safety measures.

2 Safety

2.1 Proper use

The front loader implements described in these instructions are only intended to be used on compact tractors with a front loader, not on skid steer loaders or farm loaders!

The front loader implements may only be used for their normal, intended purpose (see below). Information for *Intended use* in the operating instructions for the front loader also apply to the implement!

Any other use is considered as being incorrect.

intended purpose of the grip fork FC

The grip fork is designed for picking up, loading and transporting the wood cuttings of shrubs and bushes as well as landscaping material and logs of up to a maximum length of 3 metres, but not for cut-up firewood.

intended purpose of the top loading grip FC

The top loading grip is an accessory for the STOLL pallet fork (ID no. 3486070) and may only be used in conjunction with the pallet fork.

The top loading grip is intended for picking up, loading and transporting logs measuring up to a maximum length of 3 metres, as well as the wood cuttings of shrubs and bushes.

When the top loading grip is mounted to the pallet fork, its intended use changes therefore it is no longer possible to transport pallets.

Intended use of the bucket with grapple FC and fork with grapple FC

The bucket with grapple and the fork with grapple are designed exclusively for picking up, loading and transporting manure, compost, shrubbery, silage, and similar items/material.

Intended purpose of the logging tongs FC

The logging tongs are designed exclusively for picking up, loading and transporting logs up to a maximum length of **2 metres** with a load of no more than **600 kg**.

Intended use of the shovel bucket FC

The shovel bucket is designed for excavation work under the ground, in the fine-grained to slightly stony soil.

The shovel bucket is not designed to be used for demolition work of any kind or breaking up stones above and/or below the ground!

2.2 Safety instructions



Follow the operating instructions for the front loader! Read these instructions before you start working with the front loader and its implements!

The implements are designed to be used with STOLL front loaders from the CompactLine FC series. You are expected to know the safety instructions detailed in the operating manual of this front loader!

The operating instructions can be downloaded for free on the Internet at <http://www.stoll-germany.com>

⚠ DANGER!

Inappropriate handling of the front loader or the front loader implements may result in serious injury or death!

- It is forbidden for anybody to remain in the area where the loader is working. Never stand under a suspended load!
 - When the tractor is parked, lower the loader beam.
 - It is strictly prohibited to transport or lift people in the implement!
 - Never carry out any repair, cleaning or lubrication work when the load beam is raised! Lower and/or dismantle the beam.
 - Before starting any work familiarise yourself with all the equipment and controls as well as their functions! Once you have started work it is too late!
 - Before each time you use the front loader or the implement, put the hydraulic control units on the tractor in the neutral position!
 - The maximum permissible speed with the load beam when driving on roads is 25 km/h and when loading, 6 km/h. Ensure that the air pressure in the front wheels is at the specified level when performing loading work!
 - Do not jolt the tractor when driving with a full load and at the maximum loading position. Push together and collect downhill, if possible, load the implement in the hollow part of the ground (dip, valley or trench); never drive across the slope with a raised load, under certain circumstances the rear gauge of the tractor may be larger, do not work with standard gauge at the front even with the adjustment axle.
 - When driving into the load to be carried/lifted, do not hit the steering of the tractor!
 - Never drive on public roads with a loaded bucket!
 - Only carry out loader work when visibility is good (clean the cab windows, the risk of glare, work area is sufficiently lit up if working in the dark).
 - Watch out for electric wires, can be a fatal hazard if you come into contact with them!
 - Hydraulic oil escaping under high pressure can penetrate the skin and cause serious injuries.
If injured see a doctor immediately! Risk of infection!
 - Check hydraulic lines regularly and replace them if they are damaged or worn! The new hoses must fulfill the technical requirements as specified by the manufacturer of the equipment.
 - When looking for leaks, use the appropriate aids to avoid getting injured.
 - When working with the shovel bucket: Before starting any work, make sure that there are not any wires or pipes installed in the area you are going to dig in. There is the risk of irreparable damage!
The damage of overhead electrical lines can be fatal!
If the gas pipes are damaged, there is the risk they may explode
 - Note the respective accident prevention regulations and labour laws, and the applicable rules for road use.
-

3 Description of functions

3.1 Grip fork FC

3.1.1 Description

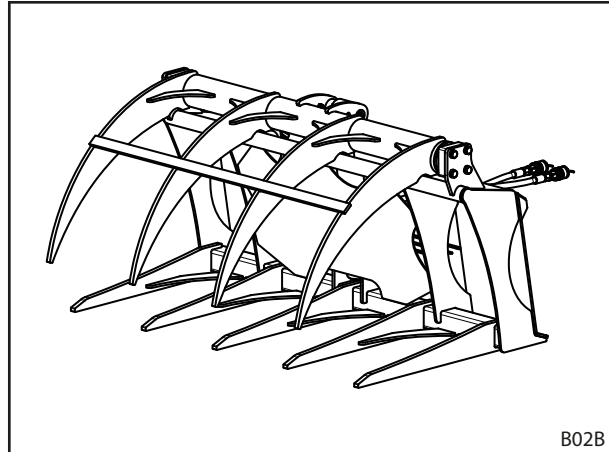
The grip fork consists of a fork, connections for the quick-change frame and a tine top grapple pressurised by a double-acting hydraulic cylinder.

To operate the double-acting hydraulic cylinder of the tine top grapple, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The grip fork is used for retrieving and loading the wood cuttings of shrubs and bushes and for landscaping material. It can also be used to handle and transfer logs of up to a maximum length of 3 metres.

We do not recommend using the grip fork for picking up lumpy firewood, because the pieces of wood can get clamped between the teeth and bend them.

Thanks to the long tines of the to grappler, a large volume of bulky wood cuttings can be easily picked up, transported and offloaded in batches.



B02B

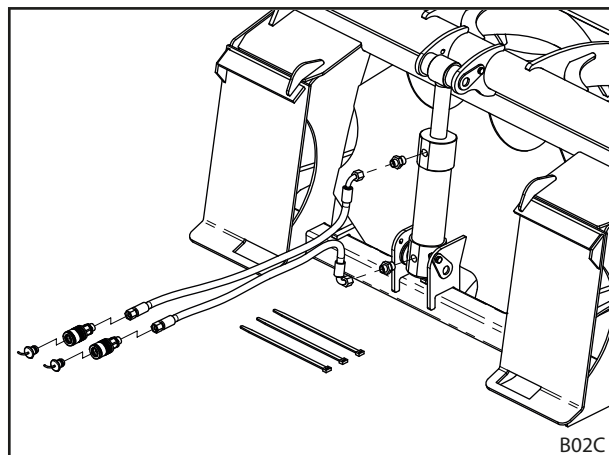
3.1.2 Before the first use

The grip fork is fully assembled at the factory. Only the supply lines have to be mounted before the first use.

1. Remove the two plastic caps on the hydraulic cylinder and firmly screw in the male stud connectors.
2. Screw in the two hydraulic hoses as shown in the picture with the male stud connectors.
3. Attach coupling sleeves on the other end of the hose.

The coupling sleeve that supplies the underside of the cylinder, has the red cap, the other side has the black cap.

4. Bundle the hoses using the cable ties.



B02C

3.1.3 Start-up



The tines of the top grapple must not be bent!
 To ensure a smooth operation, replace or straighten bent tines.

Attaching to the front loader beam

When doing this, please also refer to the operating instructions for the front loader!

1. With quick-change frame also hold it under the plates of the implement.
2. Slightly tilt and lift the quick-change frame.
3. Swivel the locking hook of the quick-change frame into the openings on the implement



Caution: Move the locking lever to the end stop, otherwise it is not fully locked!

Hydraulic connection

Using the quick-release couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

1. Position the grip fork horizontally and fully open the tine top grapple.
2. Insert the grip fork, with its tine top grapple open, into the material to be picked up.
3. With the tractor engine running at about mid-speed, swivel the tine top grapple downwards as much as possible.

Note that the tines of the upper grapple can swivel lower than the underside of the forks!
 If this happens, the tines can damage the surface or penetrate it.

You can lift or tilt the implement slightly before completely closing the top grapple.

4. After lifting the load with the front loader, close and/or press down the tines of the top grapple again to securely clamp any remaining loose material that has been loaded up before transporting it.

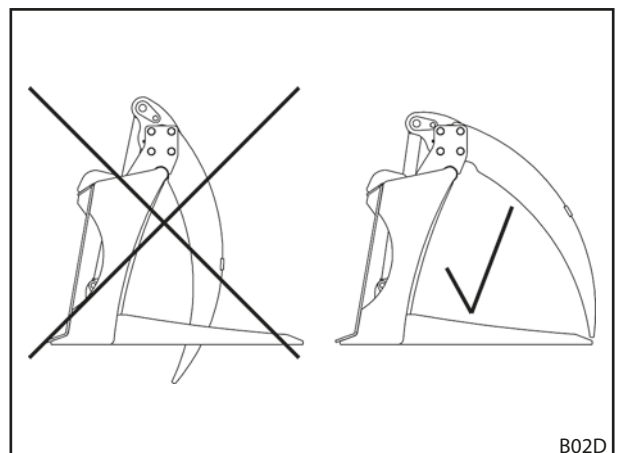
Caution: Drive with care!

3.1.4 Setting the implement down

When the hydraulic cylinder is fully extended (closed top grapple), the tines of the top grapple are about 10 cm lower than the fork (see image on left).

In this position, the implement may not be removed from the front loader or set down, as it can tilt in an uncontrolled manner!

To set down the implement, position the top grapple so that the tine tips are about the same height as the underside of the fork (see image on right).



B02D

3.2 Top loading grip FC

3.2.1 Description

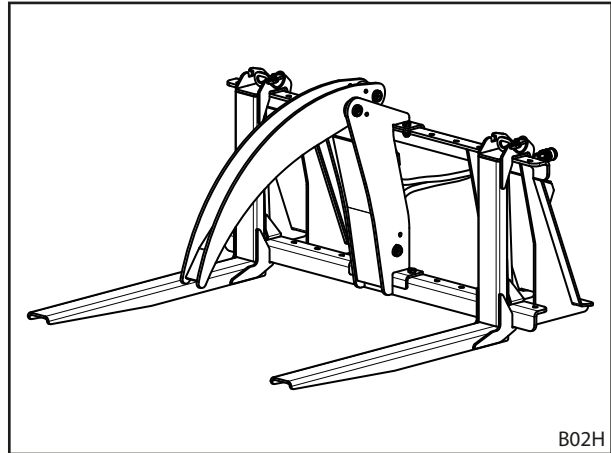
The top loading grip is an accessory for the STOLL pallet fork (ID no. 3486070).

It consists of a frame which is bolted to the pallet fork, and a top loading grip that is pressurised by a double-acting hydraulic cylinder. To operate the double-acting hydraulic cylinder, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The top loading grip is used for picking up and loading logs of up to a maximum length of 3 metres. It can also handle and transfer wood cuttings from shrubs and bushes, and clamp together bulky items on the fork tines.

The top loading grip cannot be used when transporting pallets, because it projects into the work area of the fork tines.

Thanks to the long tines of the top loading grip, you can easily pick up, transport and unload a large volume of material in batches.



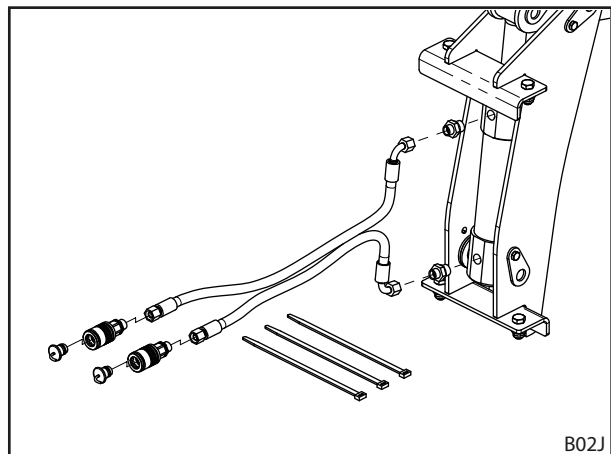
3.2.2 Before the first use

The top loading grip is fully assembled at the factory. Only the supply lines have to be mounted before the first use.

1. Remove the two plastic caps on the hydraulic cylinder and firmly screw in the male stud connectors.
2. Screw in the two hydraulic hoses as shown in the picture with the male stud connectors.
3. Attach coupling sleeves on the other end of the hose.

The coupling sleeve that supplies the underside of the cylinder, has the red cap, the other side has the black cap.

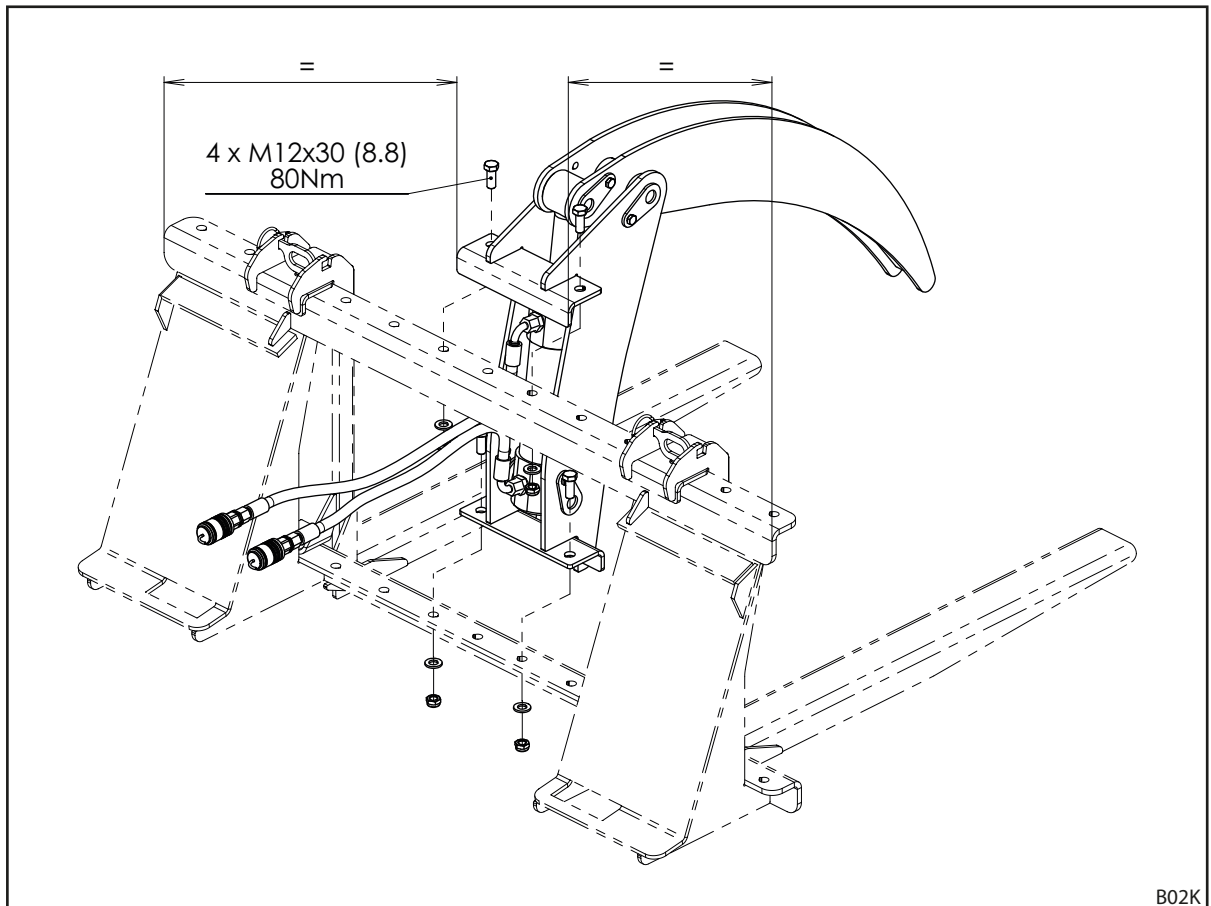
4. Bundle the hoses using the cable ties.



3.2.3 Start-up

- ☞ The tines of the top loading grip must not be bent
 To ensure a smooth operation, replace or straighten bent tines.
 It may only be used if the top loading grip is firmly bolted to the pallet fork frame!

Installing on the pallet fork frame



1. Put the top loading grip on the pallet fork frame from above.

- ☞ Make sure that you put the top loading grip exactly centered on the pallet fork frame and that the screw holes are lined up!

2. Screw the top loading grip to the pallet fork frame with four M12x30 screws, four washers and self locking nuts with a tightening torque of 80 Nm.

To disassemble, follow the procedure in reverse order.

Attaching to the front loader beam

When doing this, please also refer to the operating instructions for the front loader!

1. With quick-change frame also hold it under the plates of the implement.
2. Slightly tilt and lift the quick-change frame.
3. Swivel the locking hook of the quick-change frame into the openings on the implement

- ☞ Caution: Move the locking lever to the end stop, otherwise it is not fully locked!

Hydraulic connection

Using the quick-release couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

1. Position the pallet forks horizontally and open the gripping tines fully.
2. Insert the pallet fork into the material you want to pick up with the gripping tines open.
3. With the tractor engine running at about mid-speed swivel the gripping tines down as far as possible.

Note that the tines of the top loading grip can swivel round lower than the underside of the fork tines!

If this happens, the tines can damage the surface or penetrate it.

You can lift or tilt the implement slightly before closing of the gripping tine fully.

4. After lifting the load with the front loader, close and/or press down the tines of the top loading grip again to securely clamp any remaining loose material that has been loaded up before transporting it.

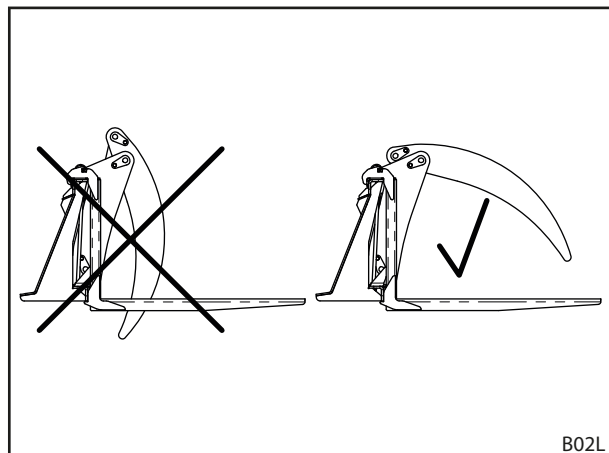
Caution: Drive with care!

3.2.4 Setting the implement down

When the hydraulic cylinder is fully extended (closed top loading grip), the tines of the upper gripper are about 10 cm lower than the fork tines (pictured left).

In this position, the implement may not be removed from the front loader or set down, as it can tilt in an uncontrolled manner!

To set down the implement, position the top loading grip so that the point of the tine is about the same height as the underside of the fork tines (pictured right).



B02L

3.3 Bucket with grapple FC and Fork with grapple FC

3.3.1 Description

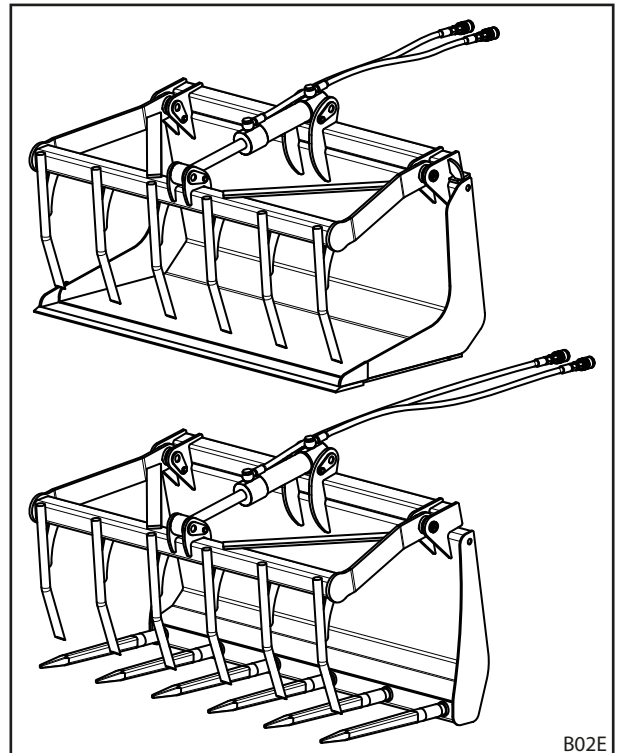
The bucket with grapple (pictured above) and the fork with grapple (pictured below) consist of a shovel and/or fork, connections for the quick-change frame and a tine top grapple that is pressurised by a double-acting hydraulic cylinder.

To operate the double-acting hydraulic cylinder of the tine top grapple, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

The bucket and fork with grapple are used to pick up and load manure, compost, wood cuttings from shrubberies and silage. The bucket with grapple can also be used to handle and transfer light bulk material.

The bucket and fork with grapple are not suitable for picking up lumpy material e.g. firewood or stones, because the pieces of wood or stones can get stuck or jammed between the tines and bend them.

Thanks to the large opening area of the top grapple, you can easily pick up, transport and unload a large volume of material in batches.



B02E

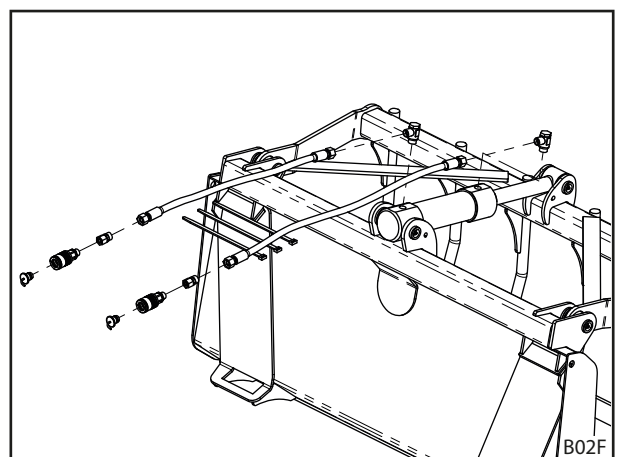
3.3.2 Before the first use

The bucket and/or fork with grapple are fully assembled at the factory. Only the supply lines have to be mounted before the first use.

1. Remove the two plastic caps on the hydraulic cylinder and firmly screw in the male stud connectors.
2. Screw in the two hydraulic hoses as shown in the picture with the male stud connectors.
3. Attach coupling sleeves on the other end of the hose.

The coupling sleeve that supplies the underside of the cylinder, has the red cap, the other side has the black cap.

4. Bundle the hoses using the cable ties.



B02F

3.3.3 Start-up



The tines of the top grapple must not be bent!
To ensure a smooth operation, replace or straighten bent tines.

Attaching to the front loader beam

When doing this, please also refer to the operating instructions for the front loader!

1. With quick-change frame also hold it under the plates of the implement.
2. Slightly tilt and lift the quick-change frame.
3. Swivel the locking hook of the quick-change frame into the openings on the implement



Caution: Move the locking lever to the end stop, otherwise it is not fully locked!

Hydraulic connection

Using the quick-release couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

1. Position the bucket with grapple and/or fork with grapple horizontally and fully open the tine top grapple.
2. Insert the bucket with grapple and/or fork with grapple into the material you want to pick up with the tine top grapple open.
3. With the tractor engine running at about mid-speed, swivel the tine top grapple downwards until it is in the end position. You can lift or tilt the implement slightly before completely closing the top grapple.
4. After lifting the load with the front loader, close and/or press down the tines of the top grapple again to securely clamp any remaining loose material that has been loaded up before transporting it

Caution: Drive with care!

3.3.4 Setting the implement down

WARNING!

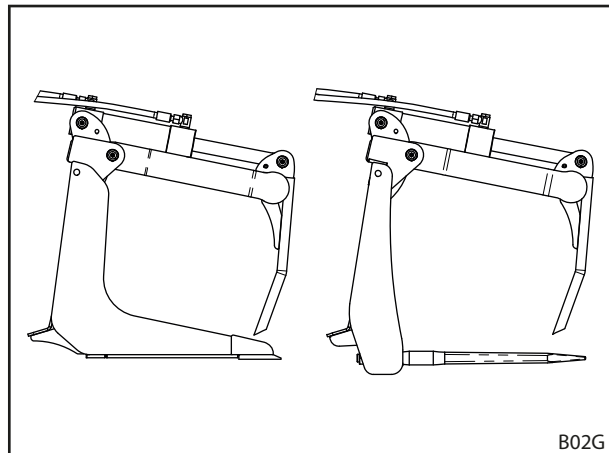
Risk of tipping!

When the top grapple is open the bucket and/or fork with grapple may tip over. People can be injured.

- Only set the bucket and/or fork with grapple down when the top grapple closed and fully tilted downward!

When the hydraulic cylinder is fully extended the top grapple is tilted completely down.

In this position, the bucket with grapple and/or fork with grapple can safely be removed from the front loader and set down.



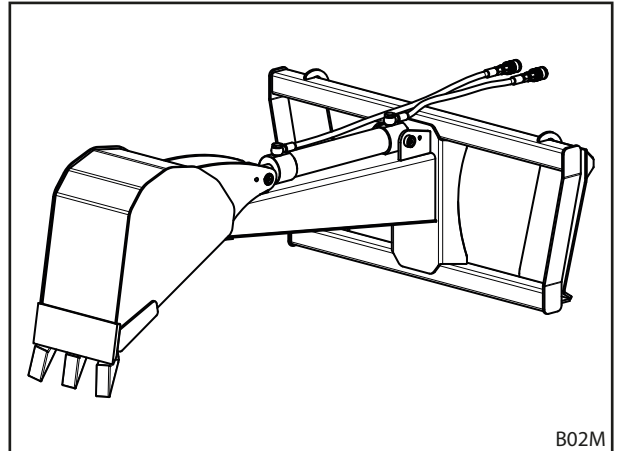
3.4 Shovel bucket FC

3.4.1 Description

The shovel bucket consists of a frame, to which the shovel bucket is attached by means of a double-acting hydraulic cylinder.

To operate the double-acting hydraulic cylinder of the shovel bucket, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.

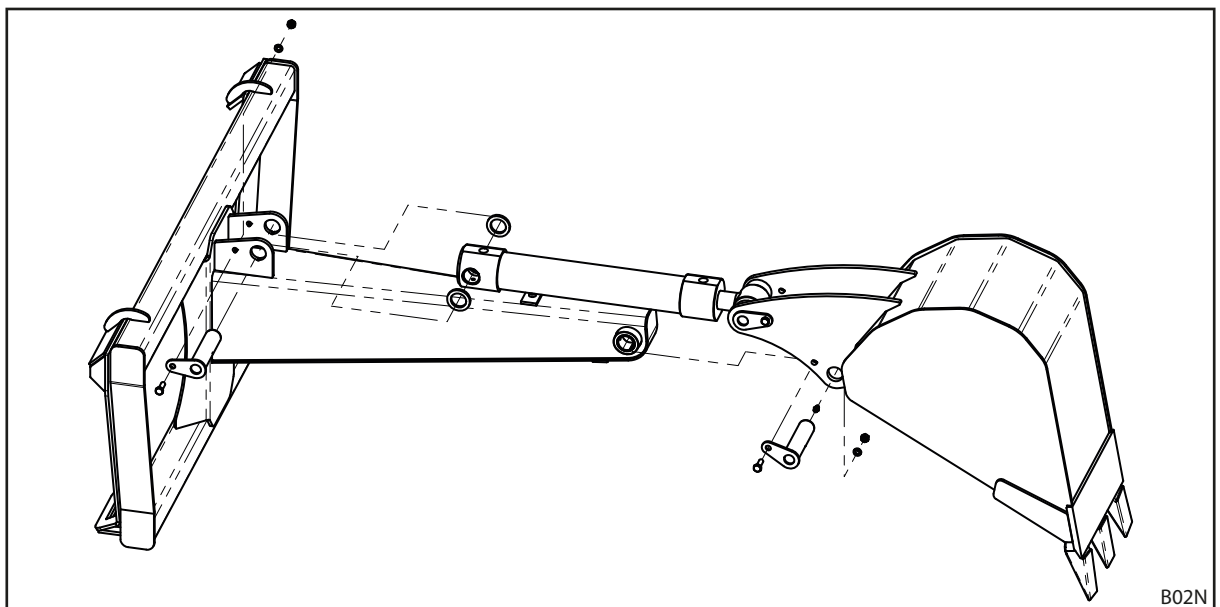
The shovel bucket is designed for excavation work under the ground, in the fine-grained to slightly stony soil. Due to the shape of the shovel bucket, it can dig ditches that are 30 cm wide and excavate down to a depth of 1.2 m. The cutting teeth welded to the edge of the bucket can also loosen solid and stony ground/soil and pick it up in the bucket.



3.4.2 Before the first use

The shovel bucket is preassembled at the factory. Before using it for the first time, the bucket and the hydraulic cylinder must be connected to the arm frame and the supply lines must be installed.

Attaching the bucket with the hydraulic cylinder



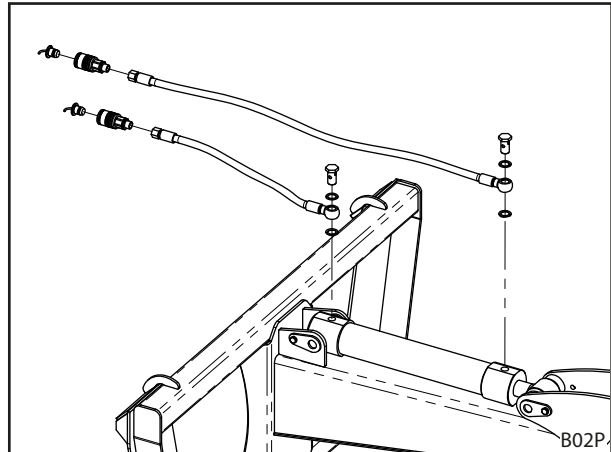
- Mount the bucket and hydraulic cylinder with the help of the bolts supplied, as shown in the picture.



Installing the hydraulic lines

1. Remove the two plastic caps on the hydraulic cylinder.
2. Connect the two hydraulic hoses on the hydraulic cylinder with the hollow screws and packing rings, as shown in the picture.
3. Attach coupling sleeves on the other end of the hose.

The coupling sleeve, which supplies the front side of the cylinder (piston rod side) in the driving direction, has the red cap, the one on the rear side (piston side) has the black.



4. Bundle the hoses using the cable ties.

3.4.3 Start-up

Attaching to the front loader beam

When doing this, please also refer to the operating instructions for the front loader!

1. With quick-change frame also hold it under the plates of the implement.
2. Slightly tilt and lift the quick-change frame.
3. Swivel the locking hook of the quick-change frame into the openings on the implement



Caution: Move the locking lever to the end stop, otherwise it is not fully locked!

Hydraulic connection

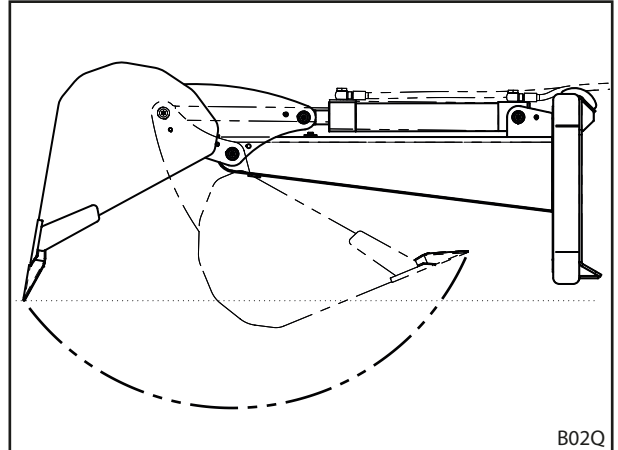
Using the quick-release couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

1. Position the arm frame horizontally and open the bucket fully.
2. Position the shovel bucket over the ground / area to be dug up, with the bucket open (bucket opening facing down).
3. Pull up the parking brake of the tractor or hold the brake pedal down, because otherwise the tractor will be pulled away by the following movement of the bucket.

4. Next, with the tractor engine running at about mid-speed, lower the shovel bucket as much as possible until the cutting of the bucket touch the ground to be dug up.
5. Now the extend the shovel cylinder until the cutting teeth penetrate into the ground with the cutting edge of the bucket.

Whilst the bucket is in motion, a force is first generated, which pushes the front loader upward. This turns into a forwards pulling force and ends with a force that pulls the front loader downwards.



6. After the bucket movement has ended, lift the front loader.
 If the bucket is tilted in completely, the bucket opening faces upwards and the load will not fall out.
 After lifting the shovel bucket, it is possible to lift the shovel cylinder again briefly in order to reach the optimal transport position of the bucket. The transport position can also be changed by pressing the tool cylinder on the front loader.
7. Release the parking brake again or take pressure off the brake pedal and drive the shovel bucket to the unloading point.

Caution: Drive with care!

8. Activate the shovel cylinder again to tilt the bucket, so that the load can fall out.



Tips and tricks for effective digging

- By alternately activating the tool cylinder (pouring) and the shovel cylinder (extending) you can excavate at greater depth if the ground is loose and consequently fill up the bucket more in every step.
- If there is too much resistance in the soil / ground, e.g. because of stones or roots, the shovel cylinder will not continue to move further down because its maximum force has been reached.

Never pull backwards with the tractor when in this position in order to pull out or tear down the obstacle! This exceeds the carrying capacity of the shovel bucket and will result in irreparable damage.

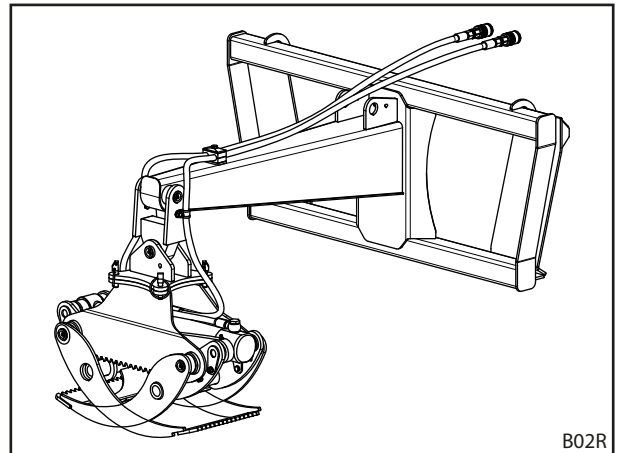
- In contrast to a mini excavator, the tractor has to be moved in order to unload the excavated soil out of the bucket away from the excavation area. In order to keep the maneuvering effort to a minimum, we recommend following the procedure below:
 - When excavating/digging out a hole and/or short trench, the load can be placed directly behind the hole, i.e. drive over the hole a little with the bucket filled, without turning the tractor wheels, the bucket is emptied and then drive back again.
 - When excavating a longer trench the load usually has to be placed next to it. To do this, with fully articulated tractor wheels, drive a little over the trench (caution - do not drive into it), empty the bucket and drive back again.
- The parallel guide of the FC front loader is optimised for working with wide retracted tool cylinders. Since the tool cylinders are often fully extended when excavating with the excavator shovel, it is essential not only to lift the front loader in order to lift the excavator shovel out of the hole or trench, but to also retract the tool cylinders again (which moves the bucket into a digging motion). If this is not done, the parallel guide will rotate the excavator shovel constantly downward when you lift the front loader, and in extreme cases this can even damage the engine hood of the tractor.

3.5 Logging tongs FC

3.5.1 Description

The logging tongs consist of a frame on which the actual logging tongs can oscillate freely on a pivot and are mounted so that they can rotate. The rotary motion is blocked with the locking pin, so that you can choose can between the loading direction lengthways and crosswise to the direction of travel. The loading direction can be altered manually at any time without any tools when it is not loaded.

To operate the double-acting hydraulic cylinder of the top loading grip, the 3rd control circuit or a double-acting auxiliary control unit must be installed on the tractor and/or front loader.



The logging tongs are used for picking up and loading logs of up to a maximum length of 2 metres and a maximum weight of 600 kg.

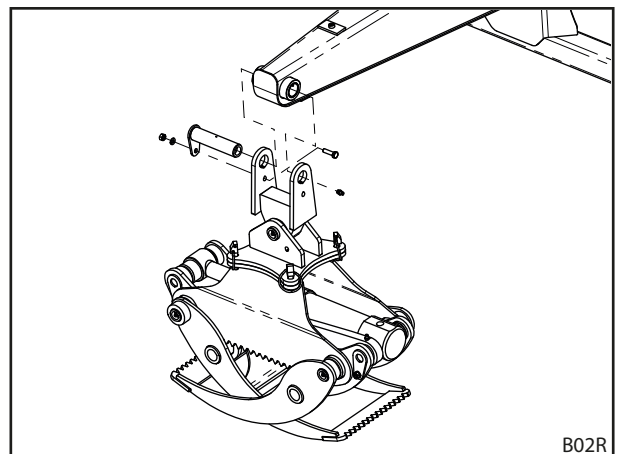
Thanks to the large swivel range of the loading tines, trunk sections with different diameter, between 8 and 75 cm, can be easily picked up, transported and offloaded in batches.

3.5.2 Before the first use

The logging tongs are fully assembled at the factory. Before the first start-up the pendulum joint of the logging tongs still need to be connected to the arm frame and the supply lines have to be installed.

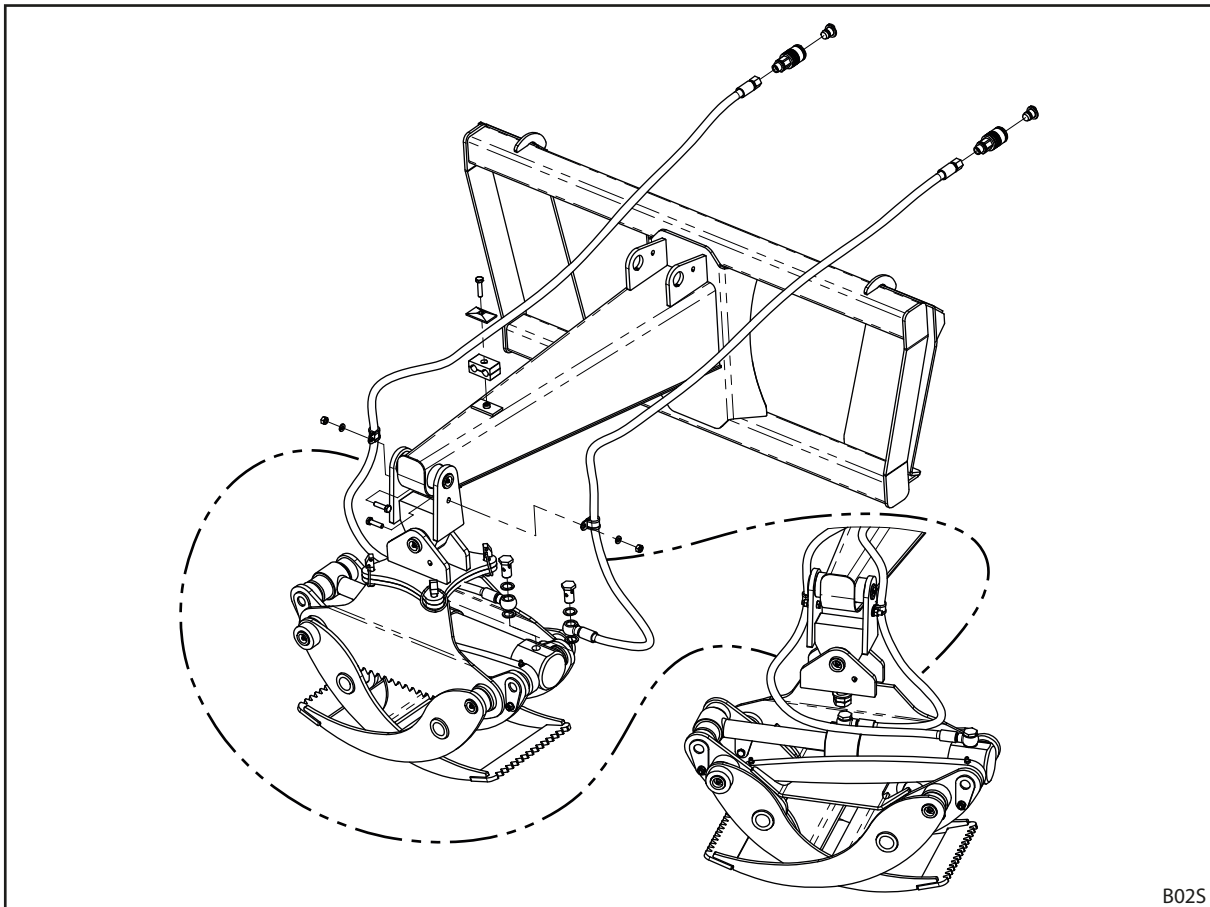
Installing the pendulum joint

- Mount the pendulum joint using the bolts supplied, as shown in the picture.





Installing the hydraulic lines



1. Remove the two plastic caps on the hydraulic cylinder.
2. Connect the two hydraulic hoses on the hydraulic cylinder with the hollow screws and packing rings, as shown in the picture.
3. Attach coupling sleeves on the other end of the hose.
The hose installed on the right in the direction of travel is connected to the piston side of the hydraulic cylinder and has the red plugs. The hose installed on the left is connected to the piston rod side and has the black plugs.
4. Using the pipe clamps secure the hoses on the pendulum joint and the double clamp on the arm, as shown in the picture.



Make sure that the logging tongs can oscillate in all directions without the hoses being stretched, crushed, bent, squeezed or twisted too much!

5. Bundle the hoses using the cable ties.

3.5.3 Start-up



The loading tines of the logging tongs must not be bent!
To ensure a smooth operation, replace or straighten bent tines.

Attaching to the front loader beam

When doing this, please also refer to the operating instructions for the front loader!

1. With quick-change frame also hold it under the plates of the implement.
2. Slightly tilt and lift the quick-change frame.
3. Swivel the locking hook of the quick-change frame into the openings on the implement



Caution: Move the locking lever to the end stop, otherwise it is not fully locked!

Hydraulic connection

Using the quick-release couplings, connect the hydraulic hoses to the connections of the 3rd control circuit.

Use

1. Position the arm frame horizontally and open the tray tines completely.
2. Position the logging tongs with opened loading tines on the material to be picked up.
3. When the tractor engine is running at about mid-speed, first lower the logging tongs so that the loading tines clasp around the load. Close the loading tines as far as possible.
Make sure that the loading tines of the logging tongs can pivot under the loaded material without damaging the surface or penetrating it.
You can lift or tilt the implement slightly before closing the loading tines fully.
4. After lifting the load with the front loader, close and/or press down the loading tines of the logging tongs again to securely clamp any remaining loose material that has been loaded up before transporting it.

Caution: Drive with care!



Changing the loading direction

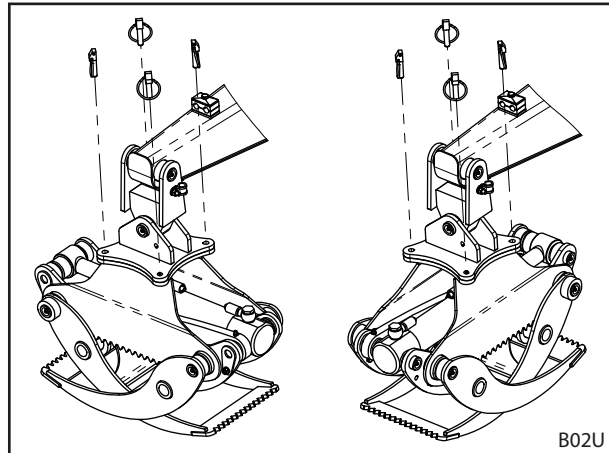
⚠ WARNING!

Risk of injury!

The front loader or the implement may lower unexpectedly!

- Never walk under the front loader or the implement!
- Never step underneath the implement!

1. When the logging tongs are empty, lower them to just a few centimeters above the ground.
2. Engage the road trip fuse on the control lever and stop the engine.
3. Turn the logging tongs
 - a) Remove all four locking pins.
 - b) Turn the logging tongs 90 degrees, so that the holes of the upper plate are over those of the bottom plate again.
 - c) Lock it with the locking pins again.



Make sure that the logging tongs can oscillate in all directions without the hoses being stretched, crushed, bent, squeezed or twisted too much!

If necessary, correct the position of the hose!

4 Servicing



Incorrect repairs can lead to safety risks. That is why the maintenance work must only be carried out by suitably qualified personnel!

Stoll recommends that the repair work is done at a specialist/authorized workshop.

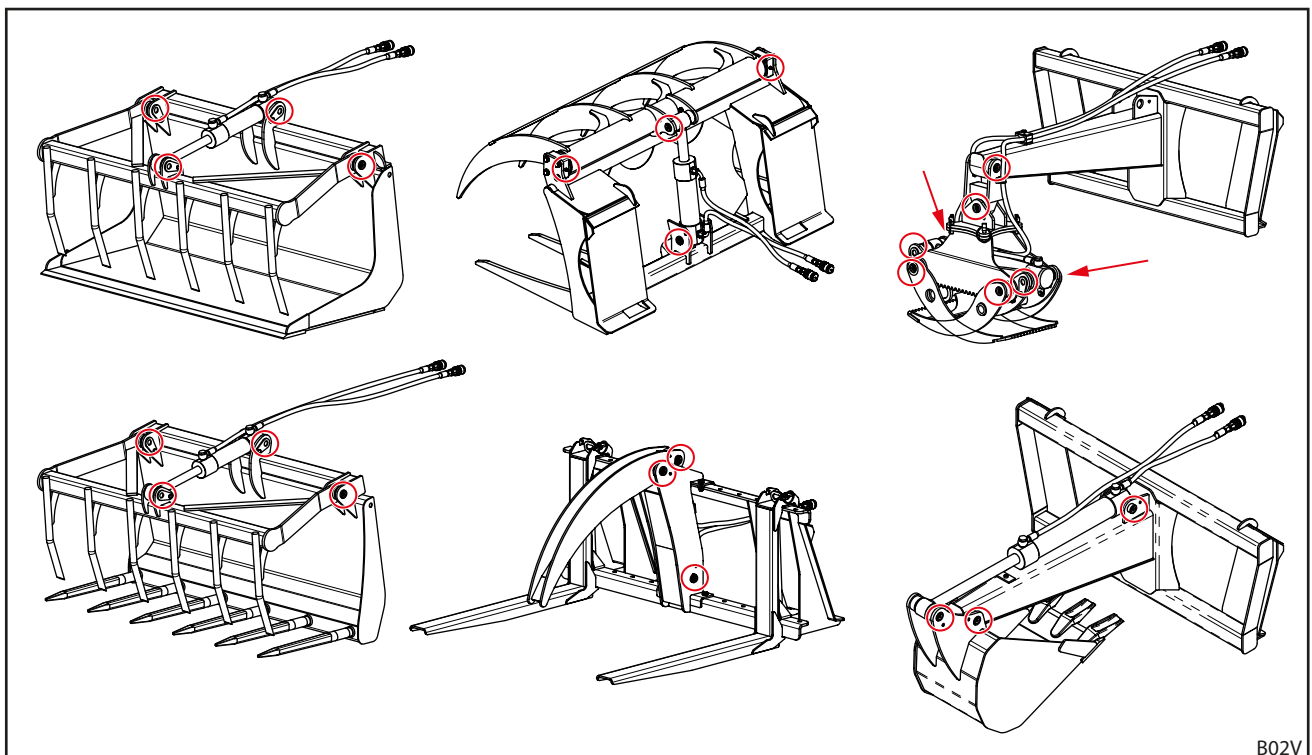
4.1 Regular maintenance

4.1.1 Lubrication and maintenance schedule

Maintenance position	Job	Interval [operating hours]
Check the screw connections	, tighten if necessary	100 h
Bearing positions	Lubrication (see 4.1.2)	10 h
Hydraulic hose lines	Visual inspection, if necessary, have them replaced by an authorized workshop	100 h
	Replacement by authorized workshop	4 years*

*see notes under 4.2

4.1.2 Lubrication points



The red circles and arrows in the Figures highlight the position of the lubrication points on the individual implements

- Lubricate the bearing points on the grease nipples every 10 hours with a grease gun.
Lubricant: Multipurpose grease DIN 51502 K2K, ISO 6743 ISO-L-XCCEA2, or a comparable product

4.2 Hydraulic lines

In accordance with DIN 20066, hydraulic hose lines should be stored for a maximum of 2 years and used for a maximum of 6 years from the date of manufacture. This results in a service life of at least 4 years with normal loading.

Hydraulic hose lines are marked with 2 dates:

On the hose material, for example, "1Q15" meaning that the hose was produced the 1st quarter of 2015;

on the valve, for example, "0415" or "04/15" to show that the hose line was produced in April 2015.

- Do not use hydraulic hose lines that are more than 6 years old!
- Do not use hydraulic hoses with tubing that is more than 10 years old!
- Shorten the replacement interval when hoses wear out prematurely!
- Have the hydraulic lines replaced if they are porous or cracked!

4.3 Torque moments for screws



Make sure that the thread is clean!

The tightening torques listed are valid for screws and threads that are clean, dry and free of grease!

Torque moments for screws				
Thread	Strength category			
	8.8		10.9	
	Nm	lb-ft	Nm	lb-ft
M8	23	17	33	24
M8x1	25	18	35	26
M10	46	34	65	48
M10x1.25	49	36	69	51
M12	80	59	110	81
M12x1.5	84	62	118	87
M12x1.25	88	65	123	91
M14	130	96	180	133
M14x1.5	138	102	190	140
M16	190	140	270	199
M16x1.5	210	155	290	214
M18	270	199	380	280
M18x2	280	206	400	295
M18x1.5	300	221	420	310
M20	380	280	530	391
M20x2	400	295	560	413
M20x1.5	420	310	590	435
M22	510	376	720	531
M22x2	540	398	750	553
M22x1,5	560	413	790	582
M24	630	464	890	656
M24x2	680	501	950	700
M27	930	686	1310	966
M27x2	995	733	1400	1032
M30	1260	929	1770	1305
M30x2	1370	1010	1930	1423
5/8" UNC (normal)	175	129	245	180
5/8" UNF (fine)	200	147	280	206
3/4" UNC (normal)	380	280	530	391
3/4" UNF (fine)	420	310	590	435

5 Appendix

5.1 Disposal

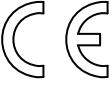
The front loader implements essentially consist of parts made of steel and hydraulic components, which may include, among other things rubber and plastics.

Authorised dealers or specialised companies must dispose of old front loader implements!

This applies in particular to hydraulic components that still contain oil residues and can therefore cause serious damage to the environment.

For the disposal of hydraulic oil, please note the operating instructions of the tractor and the locally applicable environmental regulations!

5.2 Identification

Designed by STOLL GmbH D 38268 Lengede Germany	
	Type xx 1 xxxxxxxxxx
	Item-No. xxxx 2 x
	Weight xx 3 x kg Year x 4 x Hydr.Pres. x 5 x bar
	Serial-No. xx 6 xxx
Made in xx 7 xxx	

B02W

The equipment is marked with a nameplate.

Information on the rating plate:

- 1 Type (equipment description)
- 2 Identification number
- 3 Weight
- 4 Year of manufacture
- 5 Permitted hydraulic pressure (not on all devices)
- 6 Serial number
- 7 Country of manufacture, e.g.:
Germany: Federal Republic of Germany
ROK: Republic of Korea
IE: Ireland
PL: Poland

5.3 Declaration of Conformity

The content of the Declaration of Conformity complies with the EC Directive 2006/42 / EC, Appendix I, paragraph 1.7.4.2 c):

Declaration of Conformity

in accordance with EC Directive 2006/42 / EC, Appendix II A.

Wilhelm STOLL Maschinenfabrik GmbH
Bahnhofstrasse 21
38268 Lengede, Germany

hereby declares that the following models of front loader implements

Grip fork FC, identification number 3508220,
Bucket with grapple FC, identification number 3535300
Fork with grapple FC, identification number 3535320,
Top loading grip FC, identification number 3520780,
Logging tongs FC, identification number 3556810,
Shovel bucket FC, identification number 3557480

(Serial number range 5400000 to 5999999)

correspond with all the relevant provisions of the EC Directive.

EC Directives applied:

2006/42/EC Directive 2006/42/EC of the European Parliament and of the Council dated 17 May 2006 on machinery and the amended Directive 95/16 / EC (revised version)

Applicable conforming standards:

DIN EN ISO 12100:2011-03	Safety of machinery - General principles for design -
DIN EN ISO 12100 Ber 1:2013-08	Risk assessment and risk reduction (ISO 12100: 2010); German version EN ISO 12100: 2010
DIN EN ISO 4254-1:2013-10	Agricultural machinery - Safety - Part 1: General re- quirements (ISO 4254-1: 2013); German version EN ISO 4254-1: 2013
DIN EN ISO 4413: 2011-04	Hydraulic fluid power - General rules and safety require- ments for systems and their components (ISO 4413: 2010); German version EN ISO 4413: 2010

The person authorized for compiling the technical documentation available is the Head of Development at STOLL GmbH, for address see above.

Lengede xx.xx.2015

p.p. Karsten Kraft
Head of Development

Guido Marenbach
Management of the company



Address of the dealer

Stick or write down the serial number here

Wilhelm STOLL Maschinenfabrik GmbH

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