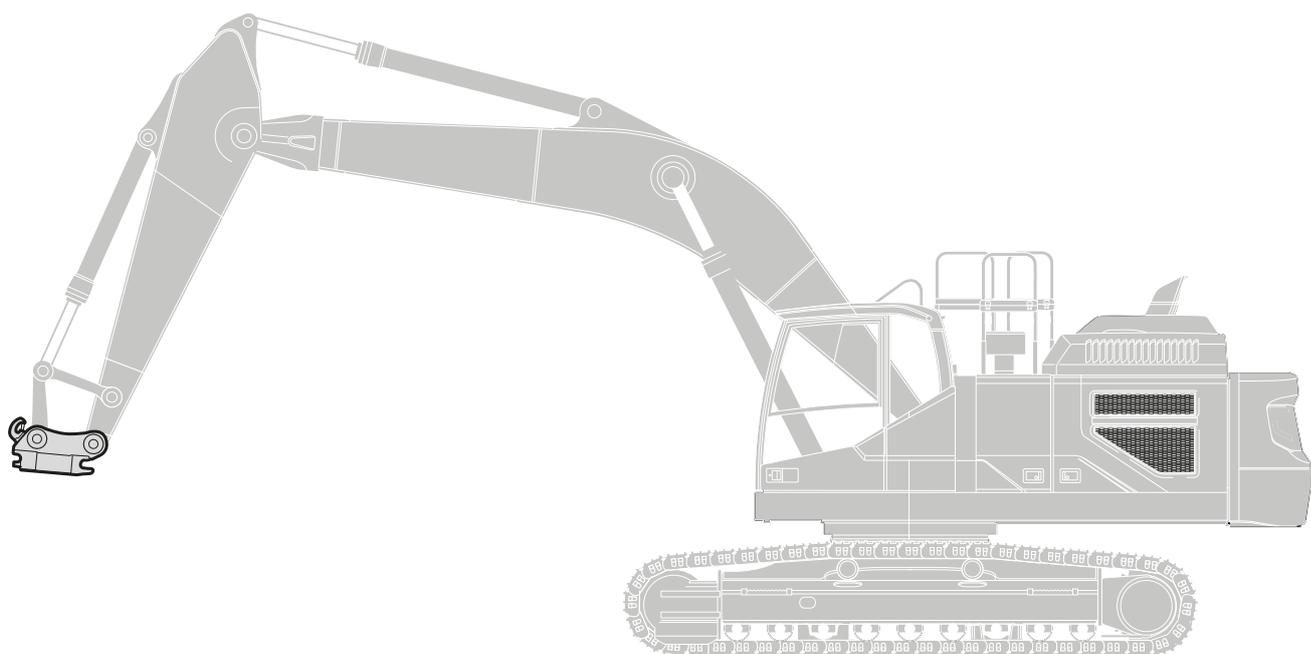


General installation manual OQ-Locksupport 2.0



To the installer

OilQuick is a quick coupler system for excavators between 1 and 120 tonnes.

OilQuick products are CE marked and fulfil all the applicable safety regulations and comply with the Machinery directive 2006/42/EG, the EMC directive (2004/108/EC) and the applicable parts of European standards EN 474-1, EN 474-4, EN 474-5, EN ISO 13849-1 and ISO 13031. It is important that all safety requirements are observed during installation, use and repair of OilQuick products. This applies to the safety regulations in this manual, the safety regulations in the excavator manual and the local safety regulations that apply for the area where the machine is used.

OilQuick LockSupport 2.0 (OQLS 2.0) is a command-and-control system specially developed for use with excavators equipped with the OilQuick quick coupler system. Like the quick couplers, the OQLS 2.0 system is made up of modules and can therefore be adapted and expanded as required. This manual provides information about the installation procedure for the quick coupler and OQLS 2.0. Before installing and using OQLS 2.0, read this installation manual and the user manual carefully.

Machine operator is a job with great responsibility, both in the handling of the machine itself, but not least your personal safety and that of those people near the machine. It places great personal responsibility on you and that you are familiar with the machine and its functions.

We have developed OQLS 2.0 to increase the safety when changing attachments. Bear in mind that OQLS 2.0 is a monitoring system that gives information and guidance, but can never relieve you of your responsibilities.

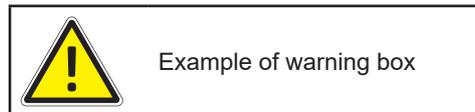
Changes may only be made to OilQuick products with the permission of OilQuick AB.

Otherwise neither the CE marking nor warranty conditions apply.

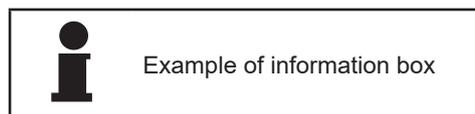
Fill in and send the Registration of installation form to us as soon as possible.

Important information

Text in boxes as below must be read with extra care because it is important information about certain procedures. If the information is not followed accidents or injury/damage to persons or property may occur.



Text in boxes as below must be read with extra care because it is important information about important matters.



We retain the right to make technical changes and reservations for any errors.

Translation of original installationmanual (7414100).



Preface

This manual applies to models: OQ 40 - OQ 120.

Certain parts of the manual can refer to equipment and details that are options and not installed in your system. We request that you ignore these section if that is the case. A safety conscious user that follows all safety instructions and care for the equipment, minimises the risk of any injuries and accidents.



Read this manual carefully and check that the installation details with applicable options for installation of the quick coupler system are correctly filled in and signed by the installer before the quick coupler system is taken into operation.



The quick coupler and OQLS 2.0 may only be used by people who have read this manual and follow the instructions given in the manual.



Transport and lifting of persons using the quick coupler or connected attachments is strictly prohibited!



When shunting, loading and moving attachments, they must be connected and disconnected according to the applicable instructions in this manual. Attachments may not under circumstances be moved when hanging from the front pin only, regardless of whether the quick coupler is open or closed.



WARNING!

Installation: The main task of the system is to control and monitor the open and close functions of the quick coupler, due to which it is of the greatest importance that is installed by trained personnel. Installation and service may only be carried out by authorised service personnel. Failure to follow this principle can lead to failures in function, damage to property and personal injury.



WARNING!

Components: Bear in mind that OQLS 2.0 is an electronic application. The electronics are very robust and can tolerate large stresses during operation in the most demanding situations such as chiselling and demolition. Damage occurs almost exclusively due to mechanical or external violence and care must therefore be taken when changing attachments and in other situations where electronic components are exposed.

Intended use

OilQuick quick couplers have been developed for excavators and are only intended for quick and safe attachment and disconnection of different attachments with and without hydraulic couplings.

The quick coupler must be adapted to the relevant machine size, attachment dimensions on the excavator, intended use and the local conditions for use.

Those attachments that are connected to the quick coupler must be approved for use with the excavator and fitted with the appropriate attachment frame/-adapter from OilQuick.

Short-term use of the quick coupler underwater is permissible provided the attachment is not equipped with an electrical connection.

An excavator with connected quick coupler must only be used at a work place that is protected or restricted.

The attachment coupler must not be used for work without a connected attachment.

Hoisting hook (optional)

The quick coupler can be equipped with a hoisting hook as an option. This hoisting hook may only be used to lift weights using appropriate and approved lifting items (chains or lifting straps).

The lifting aid is hooked onto the hoisting hook.

Information about the maximum lifting capacity is on the quick coupler's type plate and the hoisting hook.



- Use of the hoisting hook on the quick coupler for purposes that it was not intended entails a risk of accidents resulting in severe personal injury or fatality.
- Use the hoisting hook together with a suitable and approved lifting aid.
 - Do not exceed the maximum load of the hoisting hook.
 - Only use the hoisting hook if it is in fault-free condition.

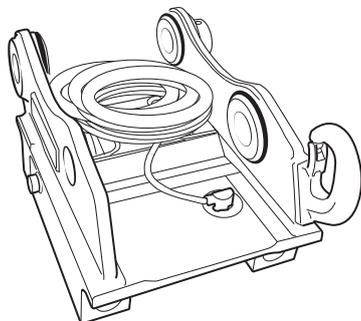
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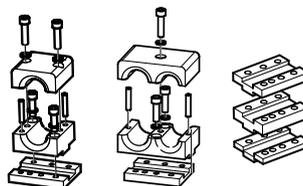
Delivery

Shown below is the material that is included in the standard delivery. Depending on the machine type and choice of equipment, other materials may also be included.

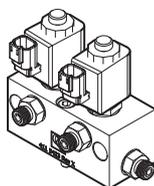
Quick coupler



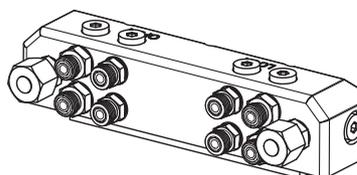
Hose clamp and spacers



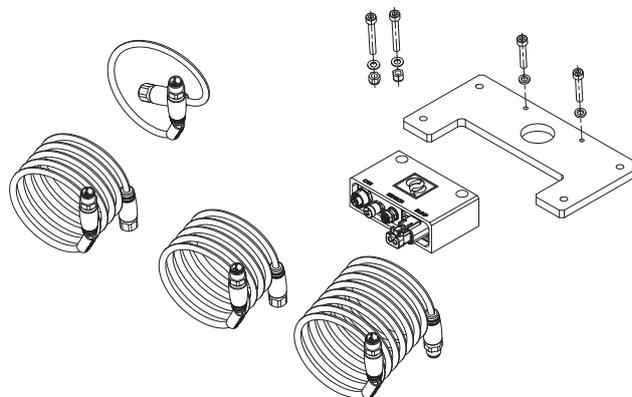
Relief valve



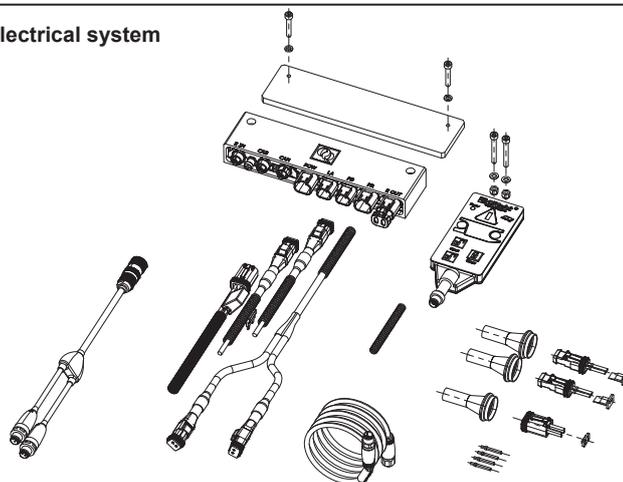
Guide block



Boom kit



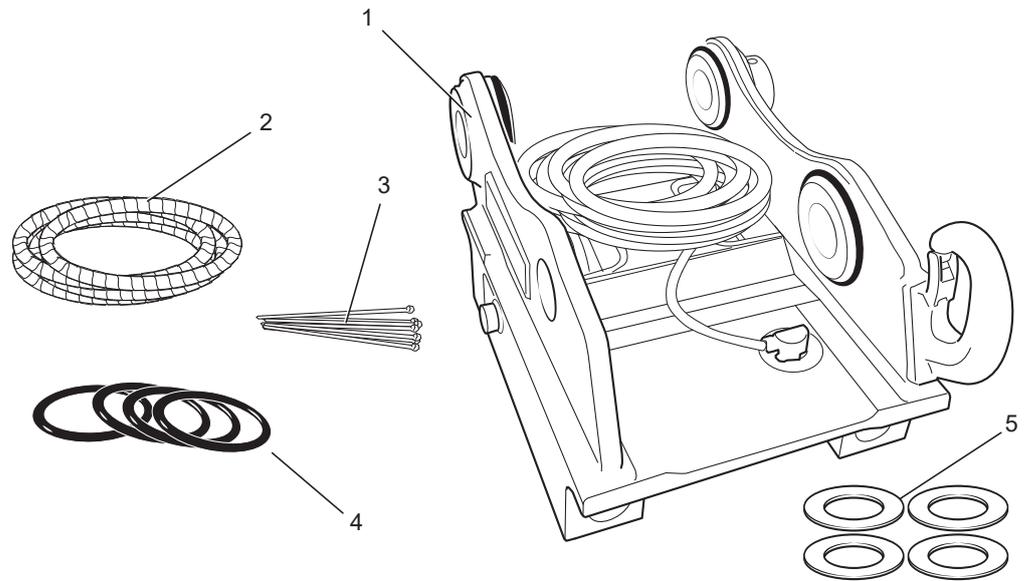
Electrical system



Quick coupler

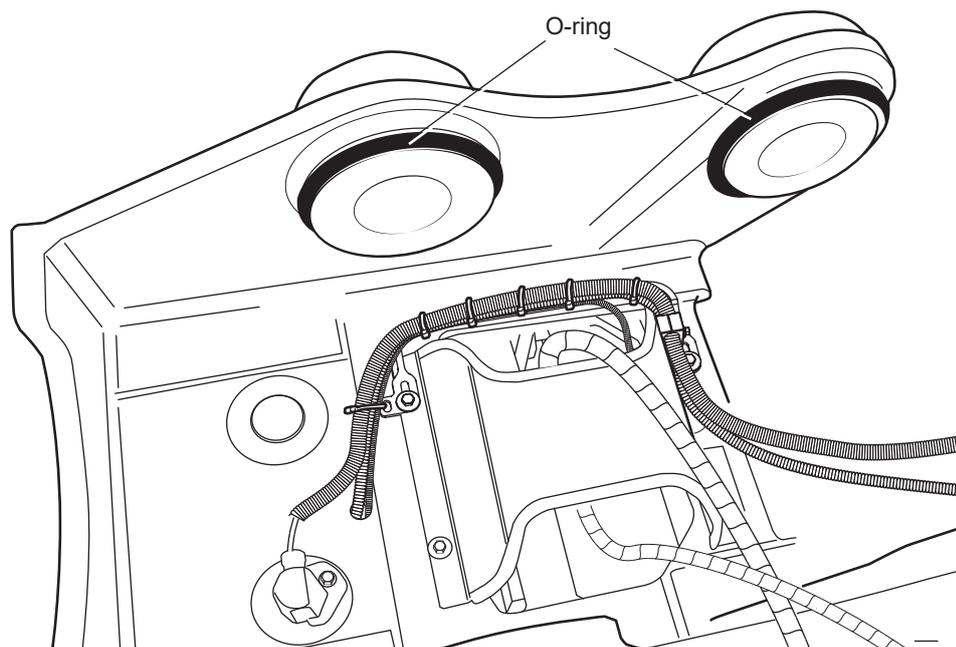
	<p>NOTE! Before the quick coupler is installed on the excavator, the machine supplier must be contacted for instructions regarding suitable connection points for hydraulics and electronics.</p>
---	---

Material



Pos.	Quantity	Designation	Note
1	1	Quick coupler OQ	
2		Cable guard	Consumables
3		Cable ties	Consumables
4	4	O-ring	The O-rings are in the cab upon delivery.
5	4	Shim kit coupler	4 pcs shim washers

Wiring



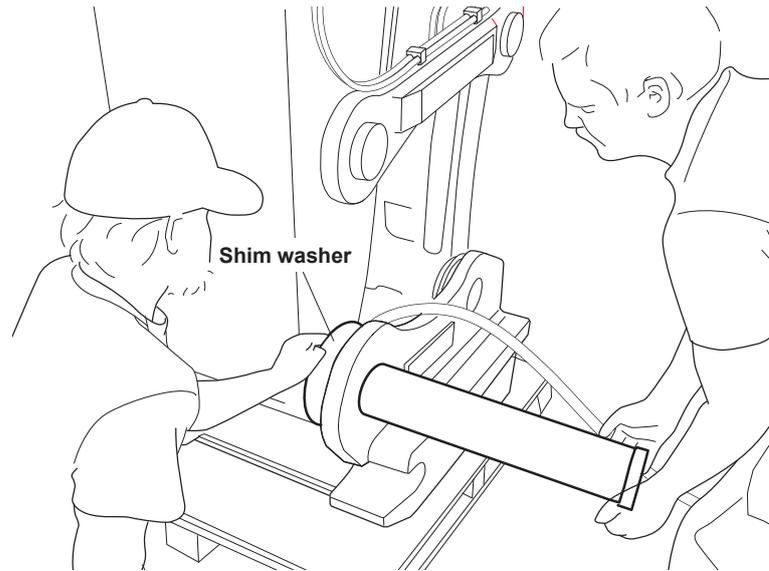
1. Check that the cables are in a secure position as illustrated.
2. Install the O-rings on the quick coupler.

Installation

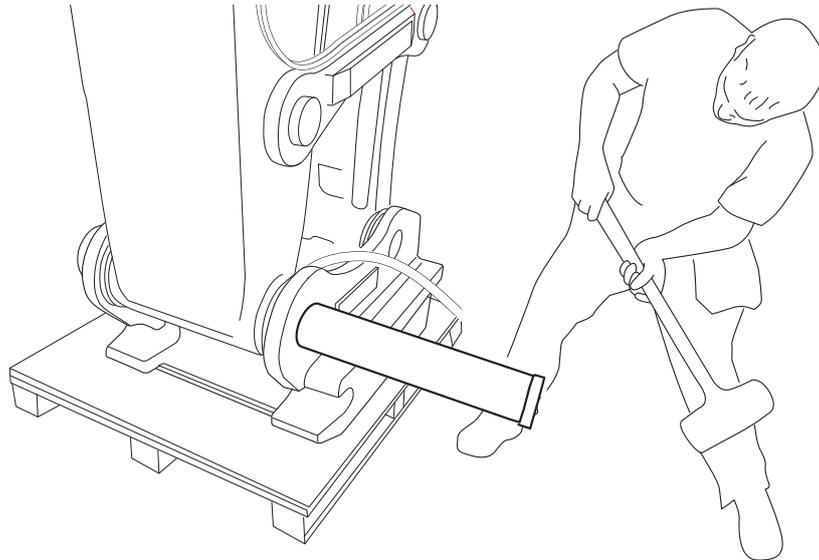


WARNING!
Risk of crushing.

1. Remove the delivery supports from the dipper stick.
2. Remove the pins from the dipper stick.
3. Place the quick coupler on a pallet lift.
4. Lower the dipper stick towards the coupler. Adjust the position of the pallet until the quick coupler's and dipper stick's pin holes are parallel.
5. Insert the pins through the quick coupler's side plate.
6. Install the necessary number of shim washers between the dipper stick and the quick coupler.



7. Insert the pins through the coupler and dipper stick by hitting the pins with a plastic mallet with care.



8. Move the O-rings to the space between the quick coupler and the dipper stick.
9. Lock the pins in the quick coupler.

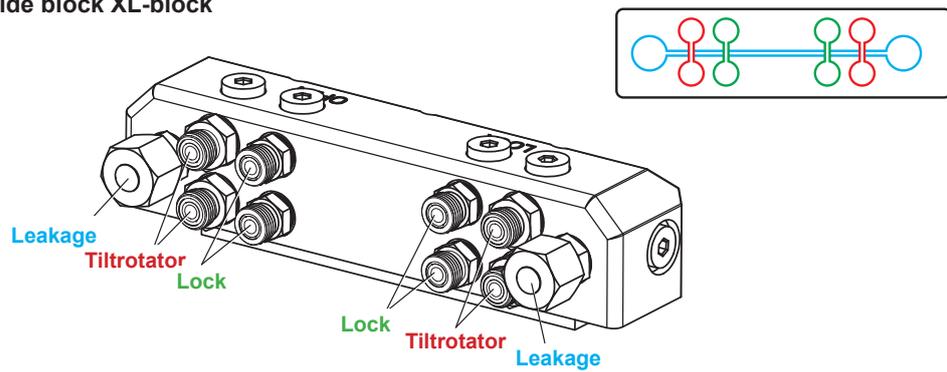
Guide block

 When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.

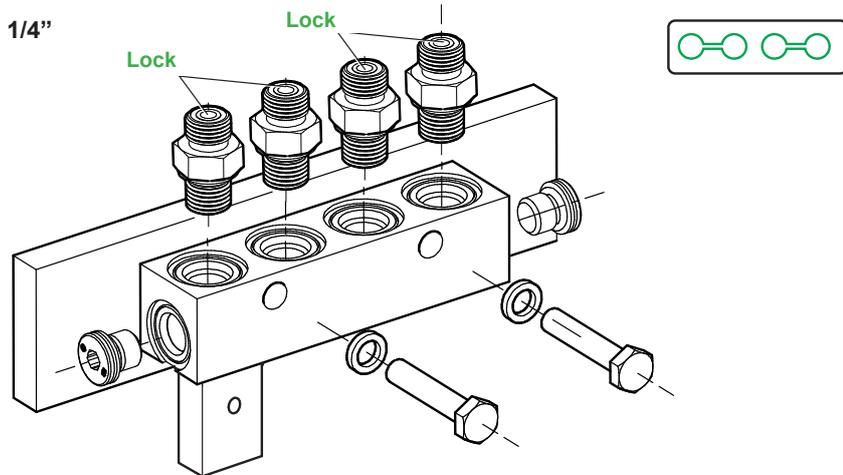
 Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

Material

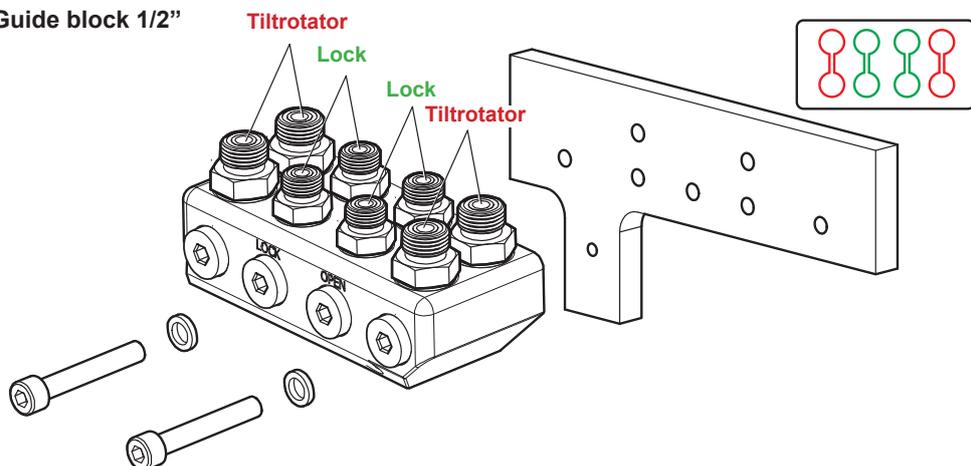
Guide block XL-block



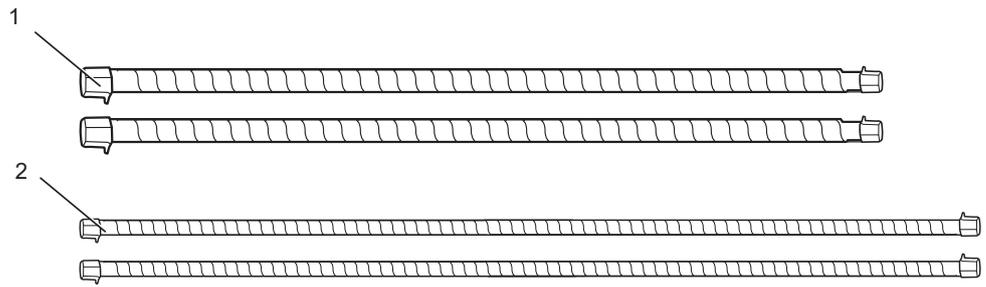
Guide block 1/4"



Guide block 1/2"



Hoses



Pos.	Quantity	Function	Comments
1	2	Extension hose	Rotation line-guide block
2	2	Lock hoses	Guide block-quick coupler

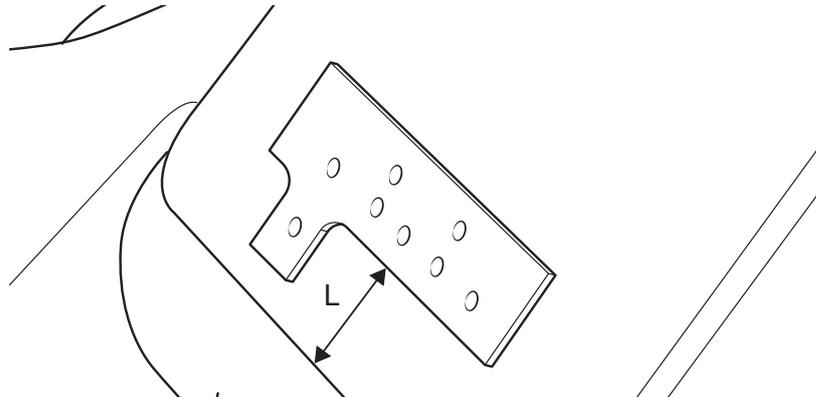
Installation



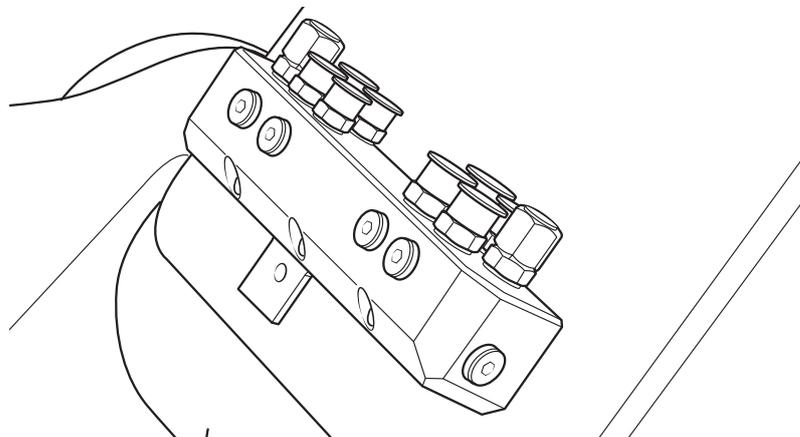
NOTE!

The guide block must be welded securely. The machine manufacturers discourage all drilling in the dipper stick.

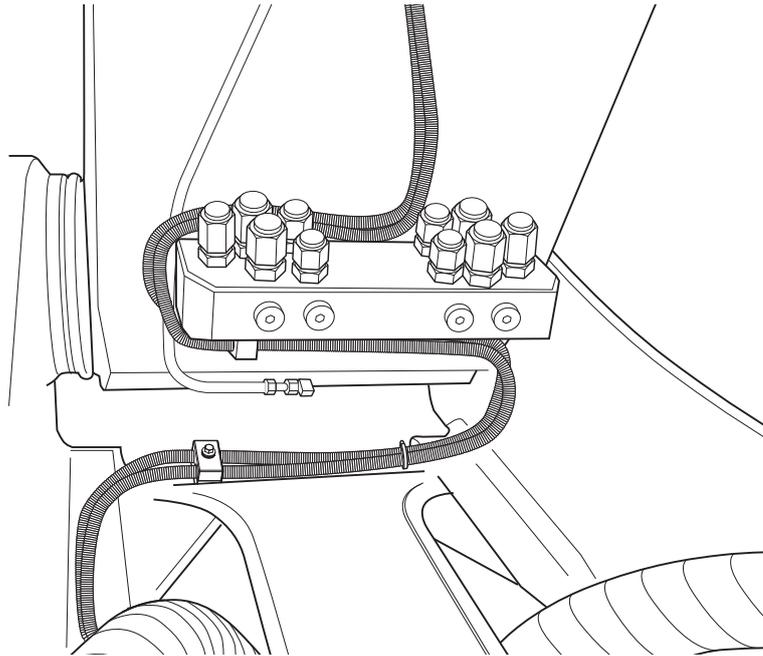
1. Measure out the space for the guide block, approx. 70-150 mm from the lower edge. The guide block must be positioned so that cables and hoses can follow all the movements of the machine without being stretched or catching on other parts of the machine.



2. Weld the coupler securely, rust-proof and paint in the colour of the machine.
3. Screw the guide block into place.

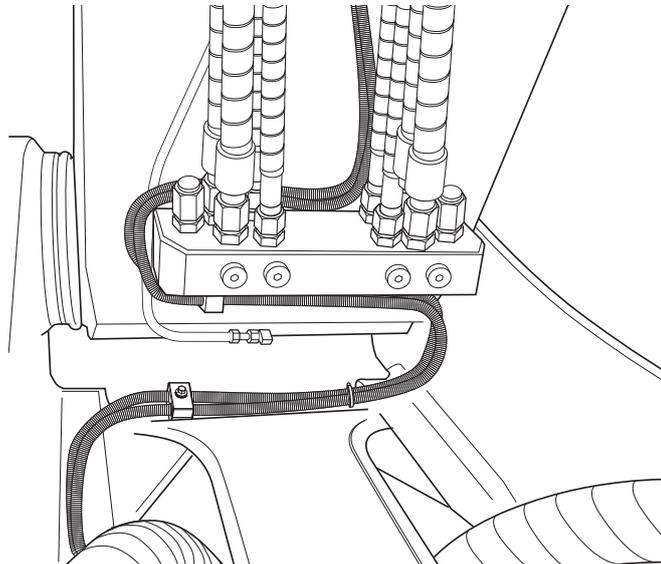


Attachment of the quick coupler wiring



1. Secure the cables in a safe manner. Ensure that the cables are long enough so as not to be stretched or trapped in the outer positions. Start the machine to verify this.
2. Route the wiring in a safe manner and secure with cable ties.

Connection of hoses



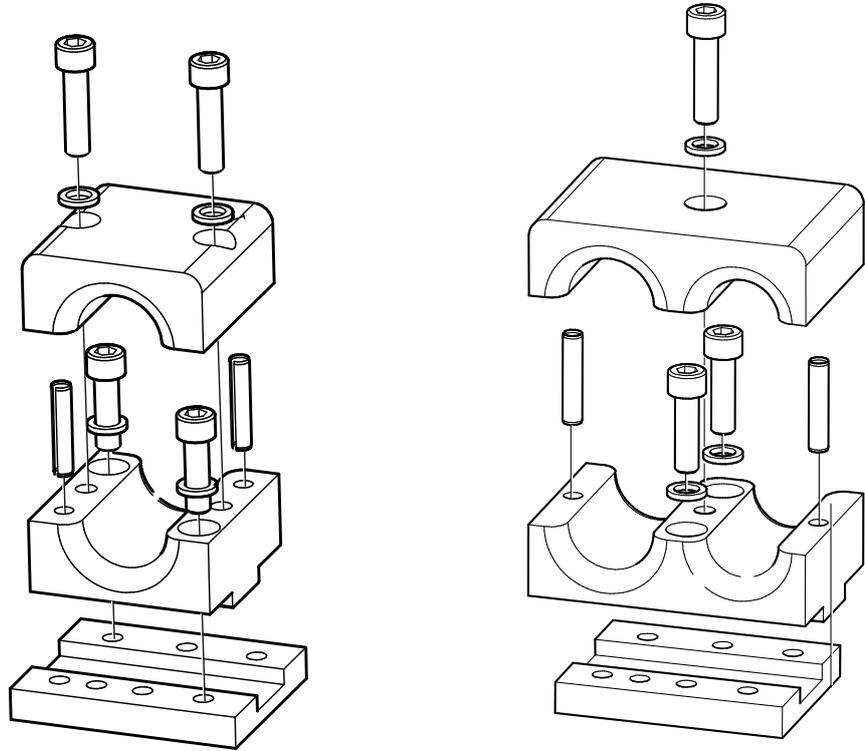
1. Connect the hoses to the quick coupling.
2. Connect the hoses to the guide block.
3. Wipe up any oil spillage.



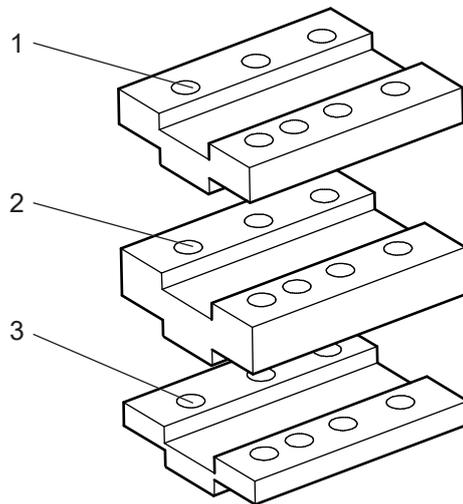
NOTE!
Ensure that all connections to the extension hoses are securely tightened.

Hose clamps

Hose clamps



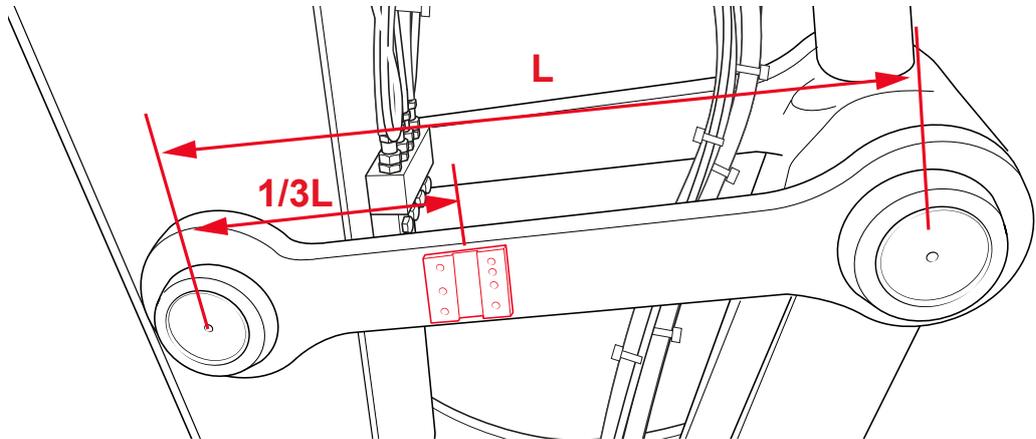
Spacers



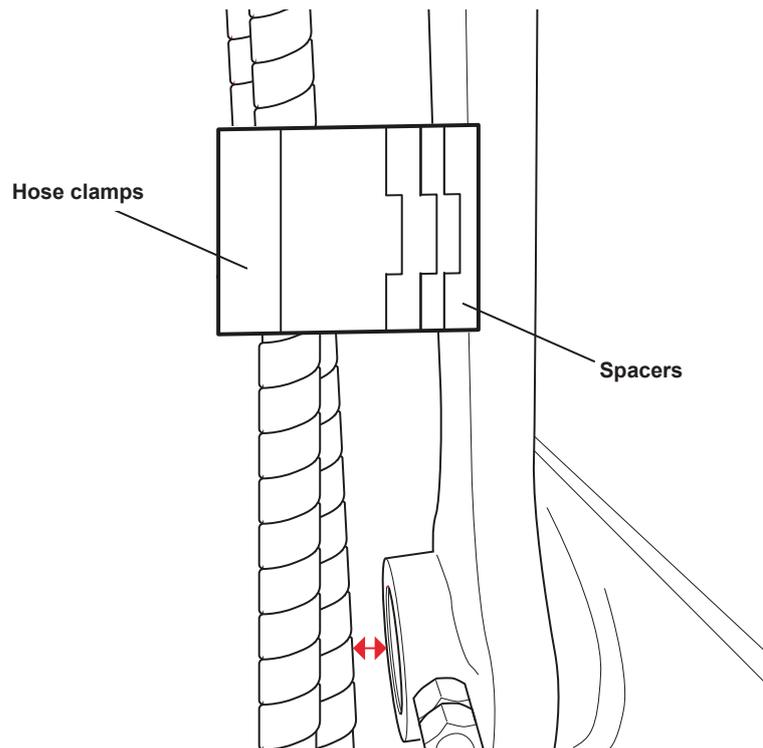
Pos.	Quantity	Designation	Note
1	2	Spacer	10 mm
2	1	Spacer	15 mm
3	1	Spacer	20 mm

Installation

1. Measure the length of the link as illustrated. Place the hose clamp's welding plate $1/3$ of the length from the centre of the attachment. If the link is designed so that the welding plate cannot be placed at this measurement, it is preferable that it be placed closer to the dipper stick than farther away.



2. Weld the welding plate on the link. Rust-proof and paint.
3. Install the necessary number of spacers to prevent the hoses from rubbing against the link.



4. Screw the hose clamp's lower section into place with screw and locking washer.
5. Install the sprung tubular pins.
6. Screw the hose clamp's upper section into place with screw and locking washer.

Hoses for attachment hydraulics

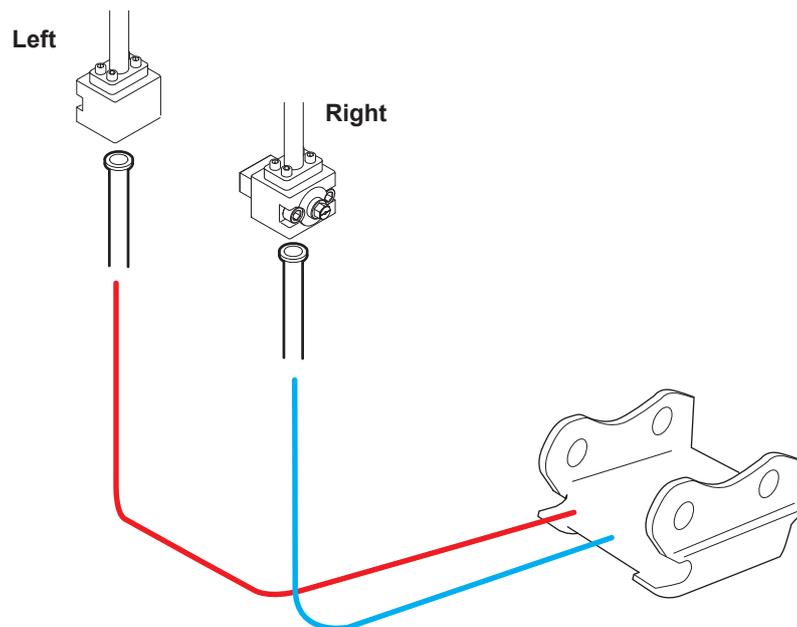
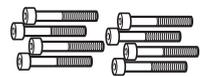
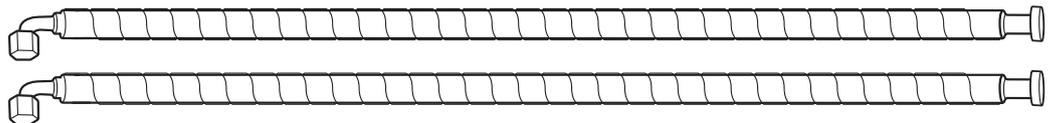


When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.

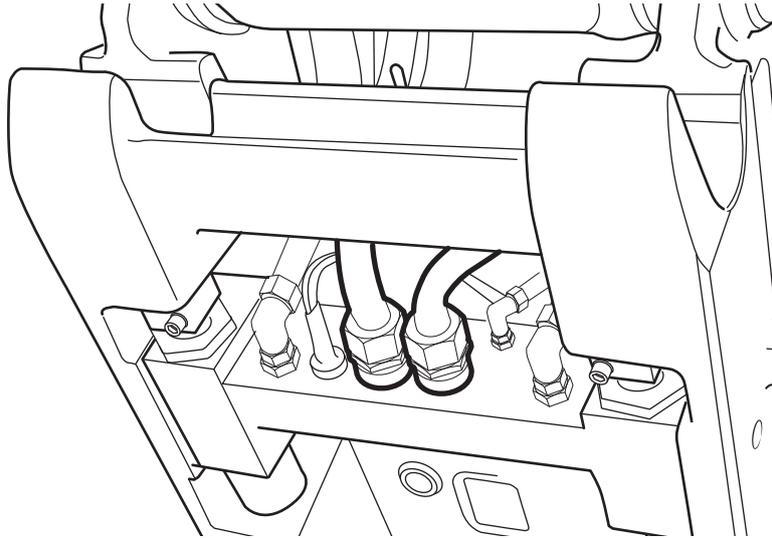


Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

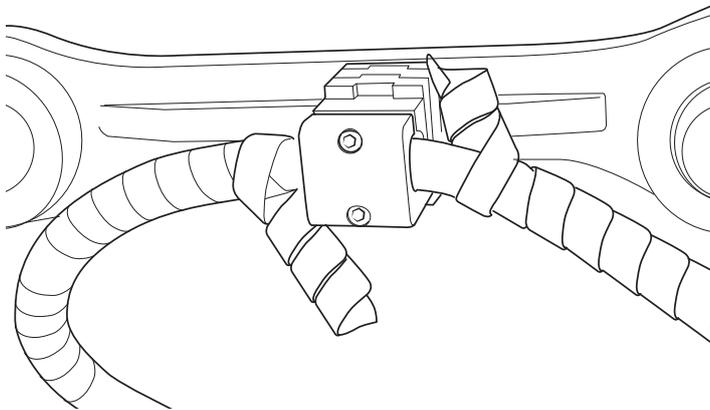
Hoses



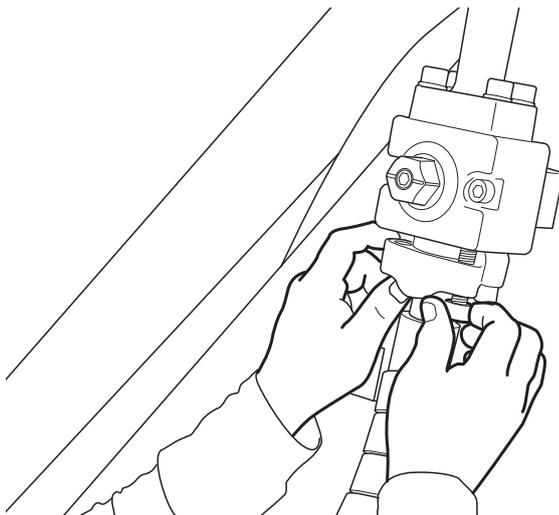
1. Connect the hoses to the quick coupler's connections. The configuration for the connections differs between different models.



2. Split the hose guard and place the hose in the hose clamp and screw the upper section loosely so that the position of the hoses can be adjusted.



3. Connect the hose to the machine's quick coupling for attachment hydraulics.



4. Repeat steps 2-3 for the hose on the opposite side.

Connection of double-connected return (option)

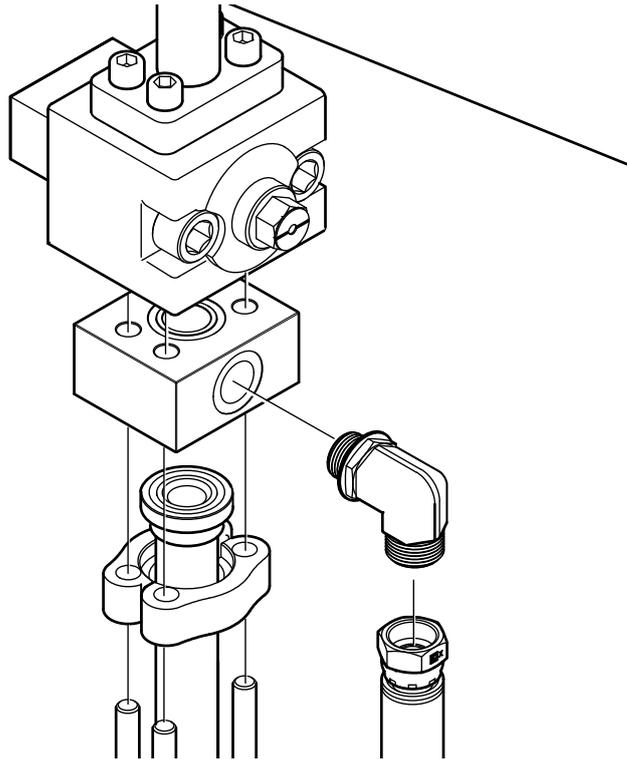


When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.

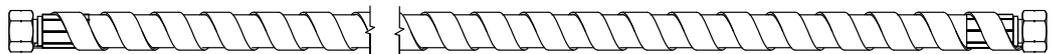


Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

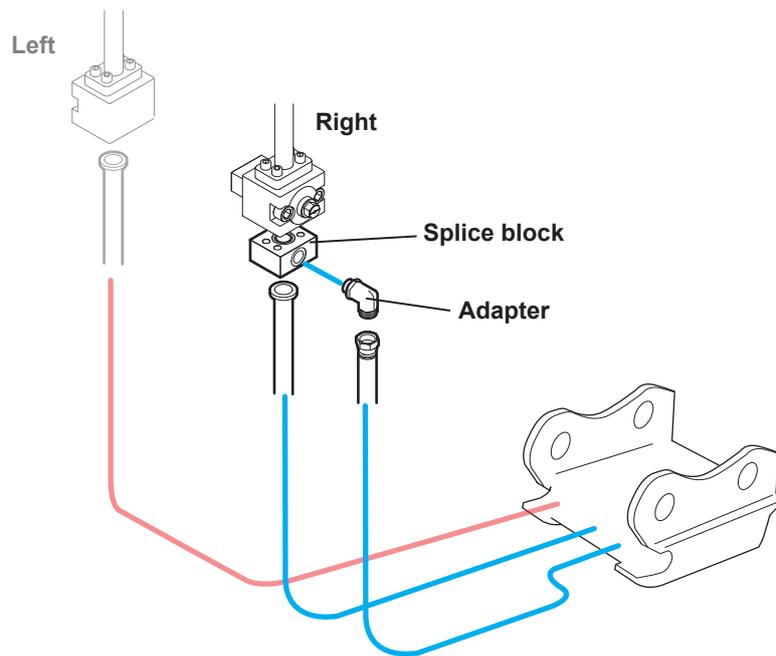
Material



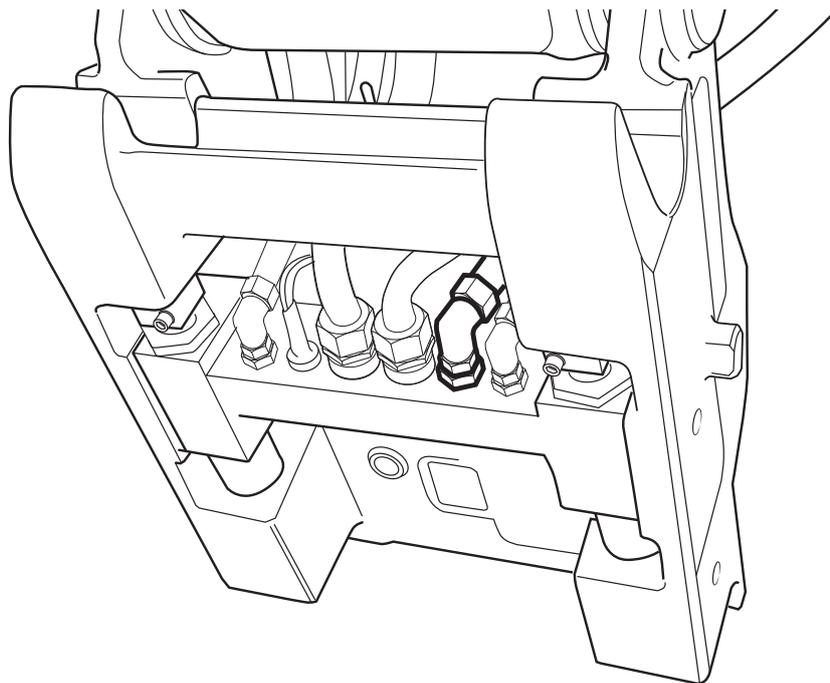
Hoses



Pos.	Quantity	Function
1	1	Extra return X1-hose



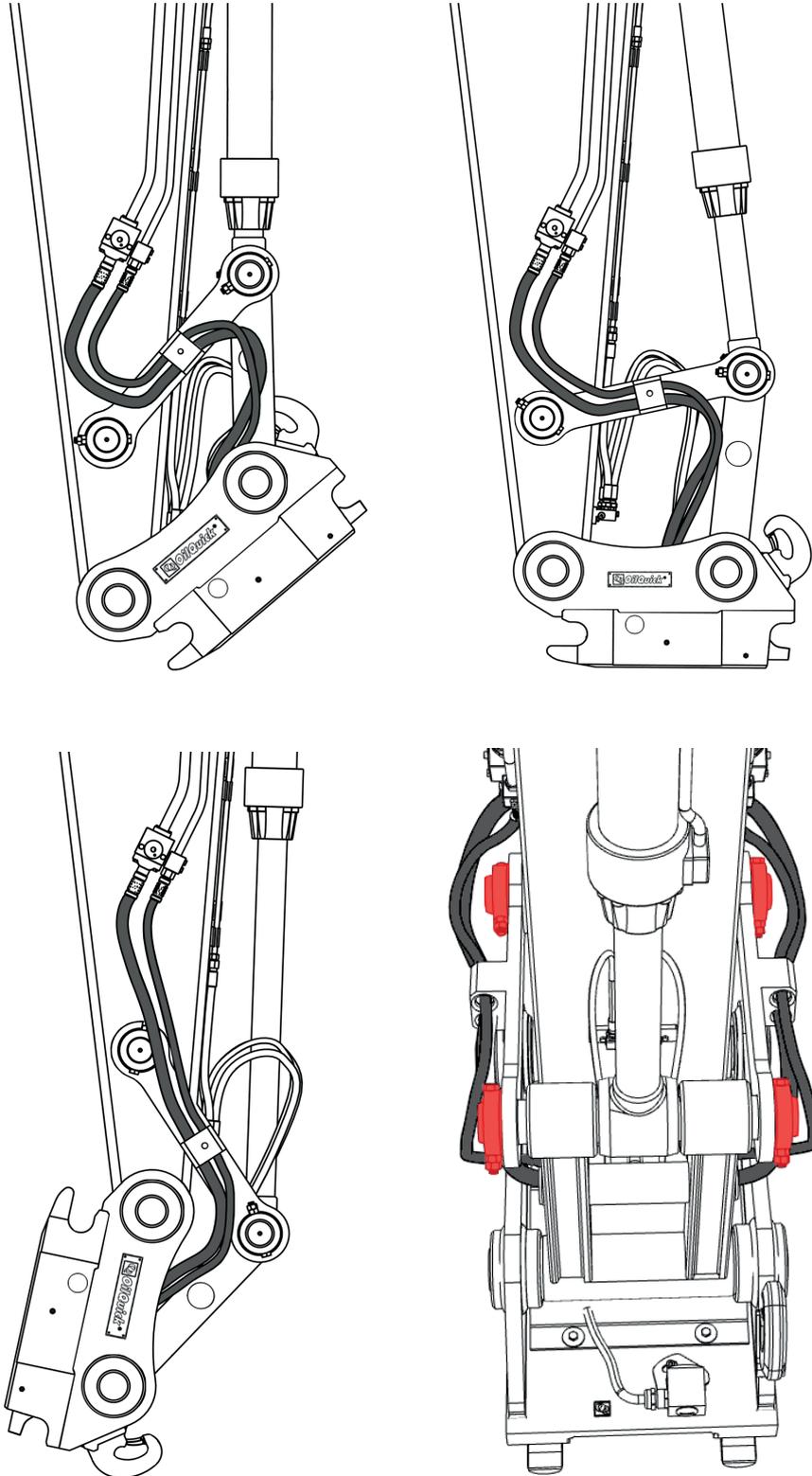
1. Connect the extra return hose to the quick coupler.



2. Split the hose guard and place the hoses in the hose clamp and screw the upper section loosely so that the position of the hoses can be adjusted.
3. Screw the splice block securely to the machine's quick coupling.
4. Screw the adapter to the splice block.
5. Connect the hose to the adapter.

Adjustment of the position of the hoses

1. Adjust the position of the hoses so that the hoses can follow all the movements of the machine without being stretched or catching on other parts of the machine.



2. Screw the upper sections of the hose clamps into place and secure the hoses.
3. Remove excess hose protection.

Bypass valve (option)



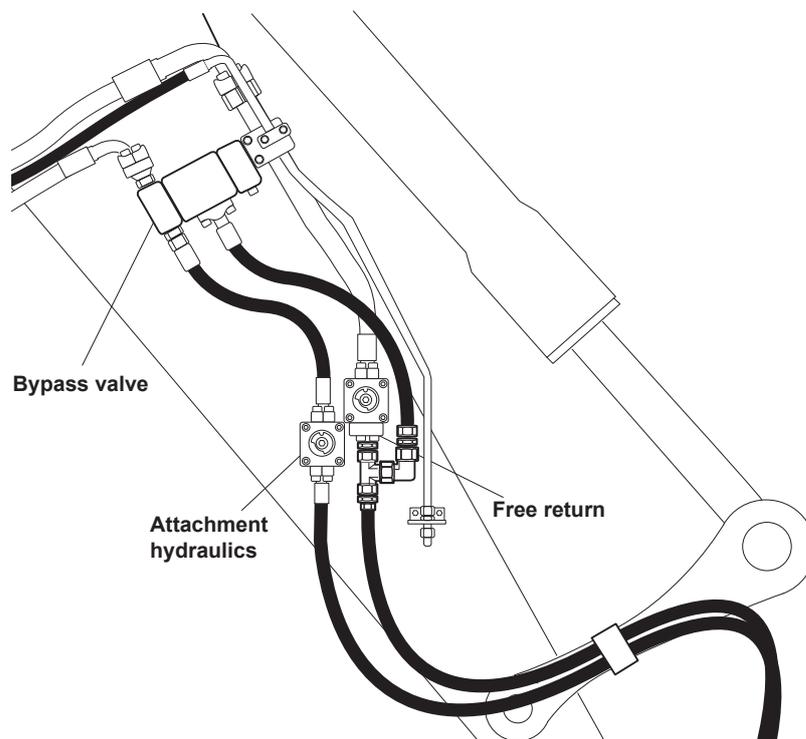
When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.



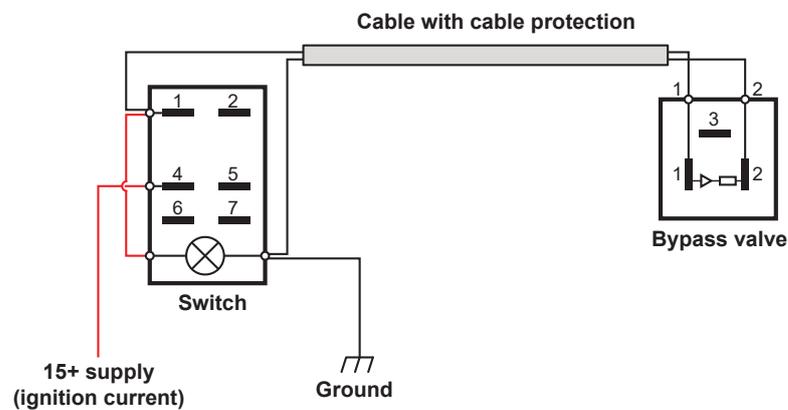
Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

Installation

The image shows an example of assembly.



Electrical connection

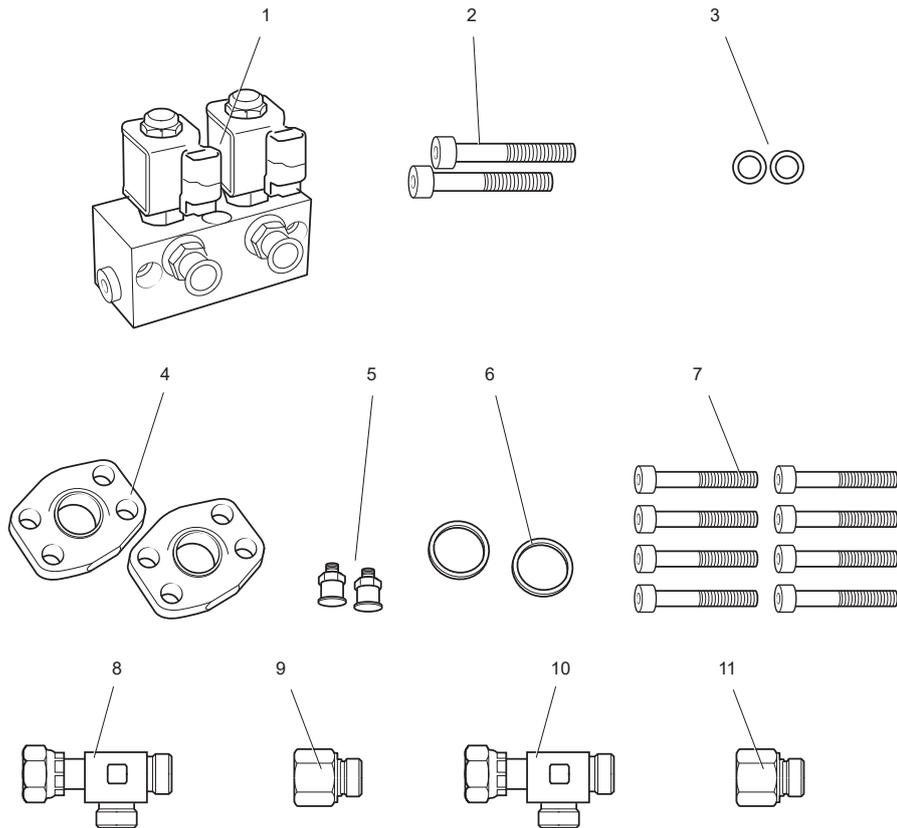


Relief valve

 When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.

 Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

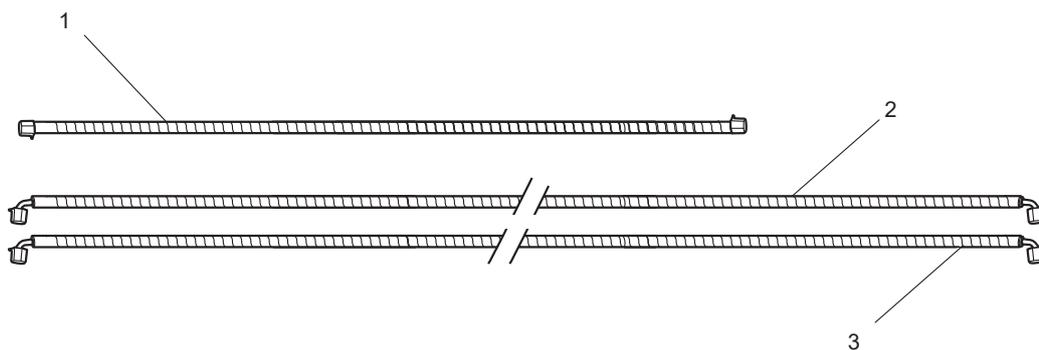
Material



Pos.	Quantity	Designation	Note	
1	1	Relief valve		Included in delivery
2	2	Allen bolt M8	Relief valve	Included in delivery
3	2	Washer M8	Relief valve	Included in delivery
4	2	Intermediate flange		Not included *
5	2	Adapter	Intermediate flange	Not included *
6	2	O-ring	Intermediate flange	Not included *
7	8	Allen screw	Intermediate flange	Not included *
8	1	L-connector	Tank	Not included *
9	1	Reduction	Tank	Not included *
10	2	L-connector		Not included *
11	2	Reduction	L-connector	Not included *

* Not included in the delivery. Obtained based on the machine version.

Hoses

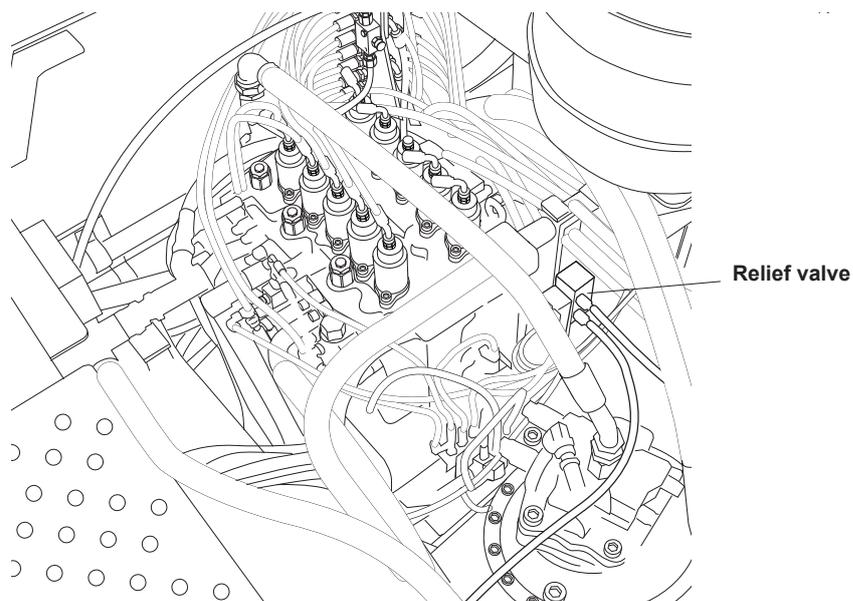


Pos.	Quantity	Function	
1	1	Tank to valve	Not included *
2	1	X1 to relief valve, right	Not included *
3	1	X1 to relief valve, left	Not included *

* Not included in the delivery. Obtained based on the machine version.

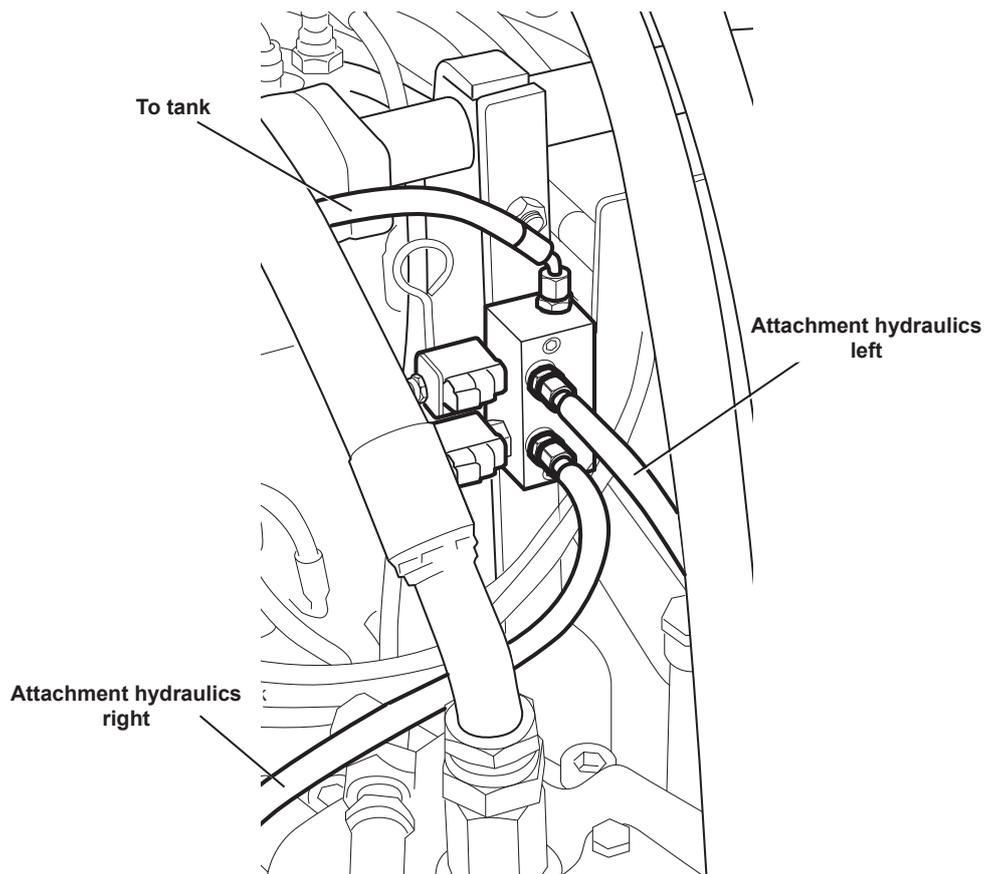
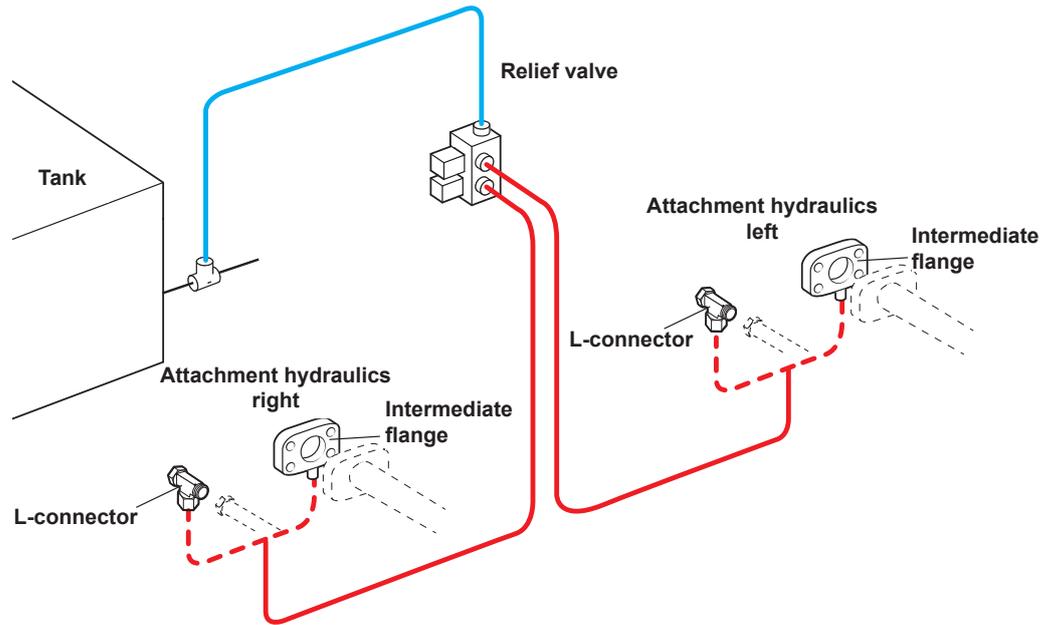
Installation

The relief valve is attached in a safe manner close to the backhoe valve. Image shows position example,



Connection

Hoses between the relief valve and the attachment hydraulic hose coupling are made with either an intermediate flange or an L-connector depending on the design of the machine.



Connection to tank



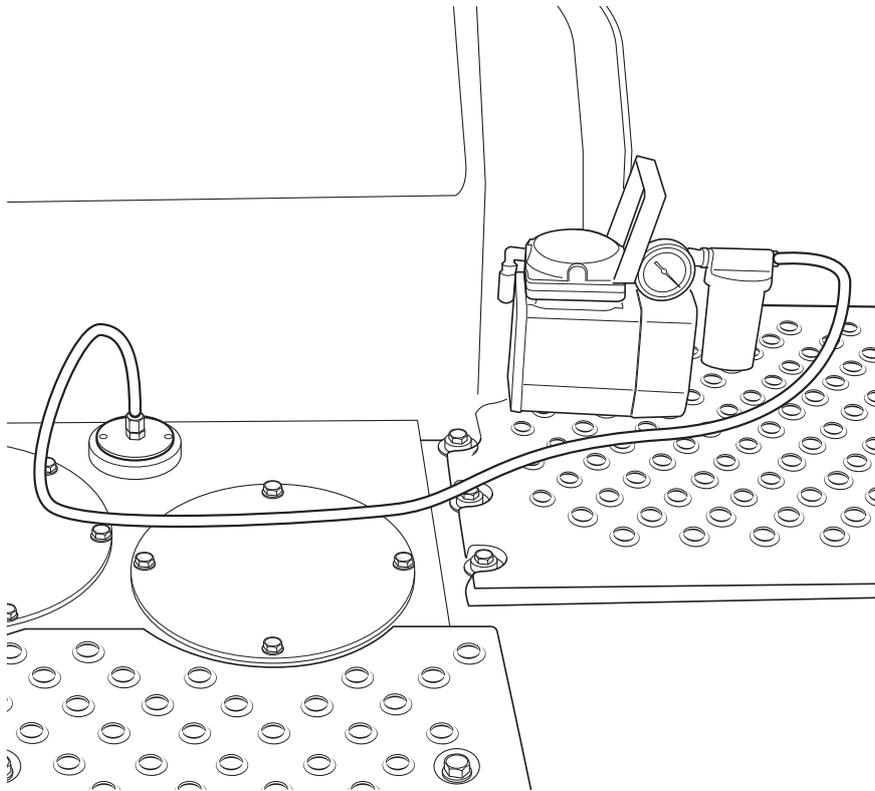
When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.



Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

Before the hose between the relief valve and the tank can be connected, the pressure in the tank must be reduced.

1. Remove the bleed valve from the tank.
2. Connect the vacuum pump to the tank.



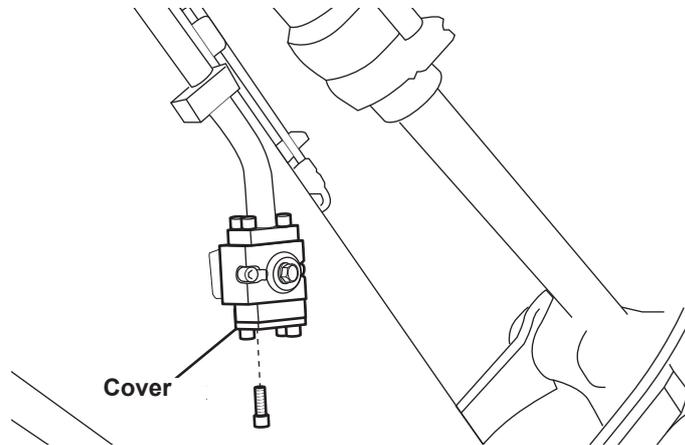
3. Start the pump to lower the pressure in the tank.
4. Connect the return hose from the relief valve to the tank in a suitable manner.
5. Switch off the vacuum pump and remove it from the tank.
6. Reinstall the relief valve on the tank.

Connection to attachment hydraulics

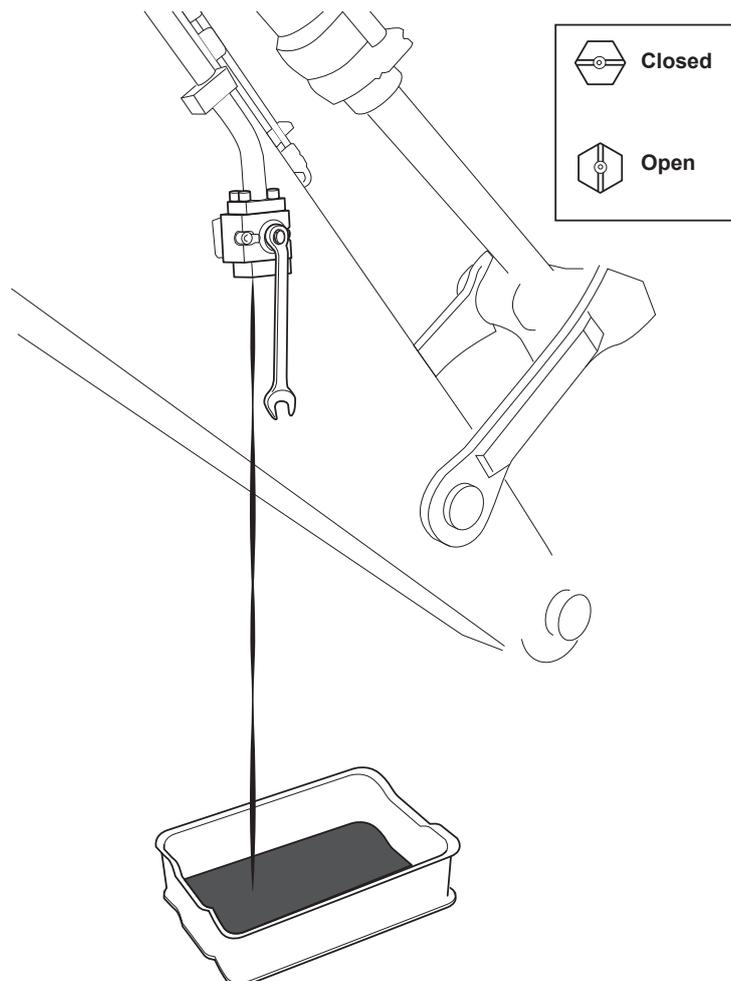
Reducing pressure

Before the hoses can be connected, the pressure in the system must be reduced.

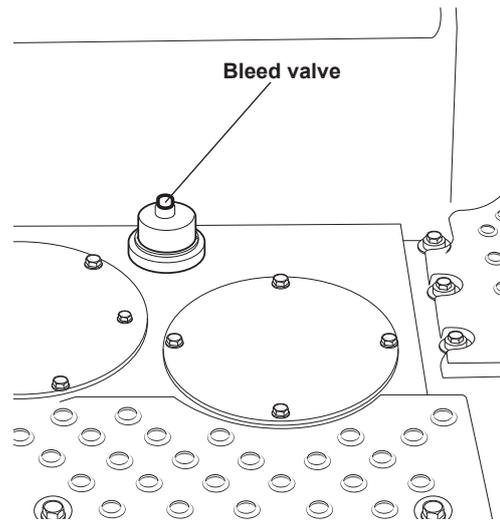
1. Undo the screws on the valve's cover on the dipper stick and remove it.



2. Place a container on the floor under the valve.
3. Open the valve and allow the oil to run down into the container.



4. Repeat steps 1-3 for the valve on the opposite side.

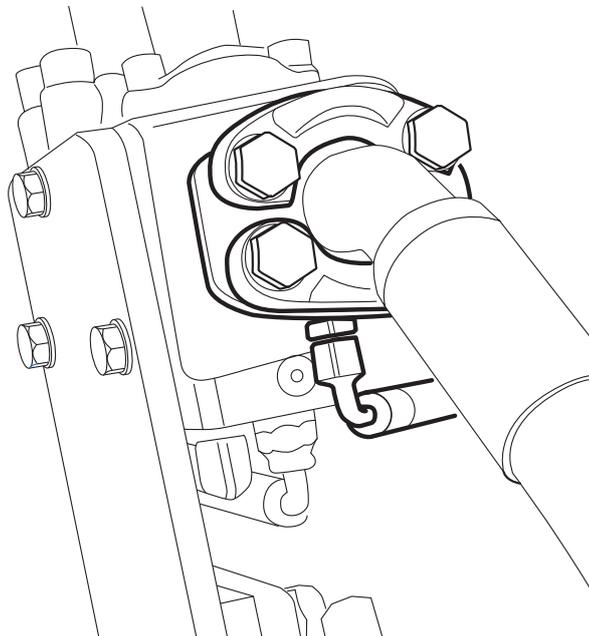
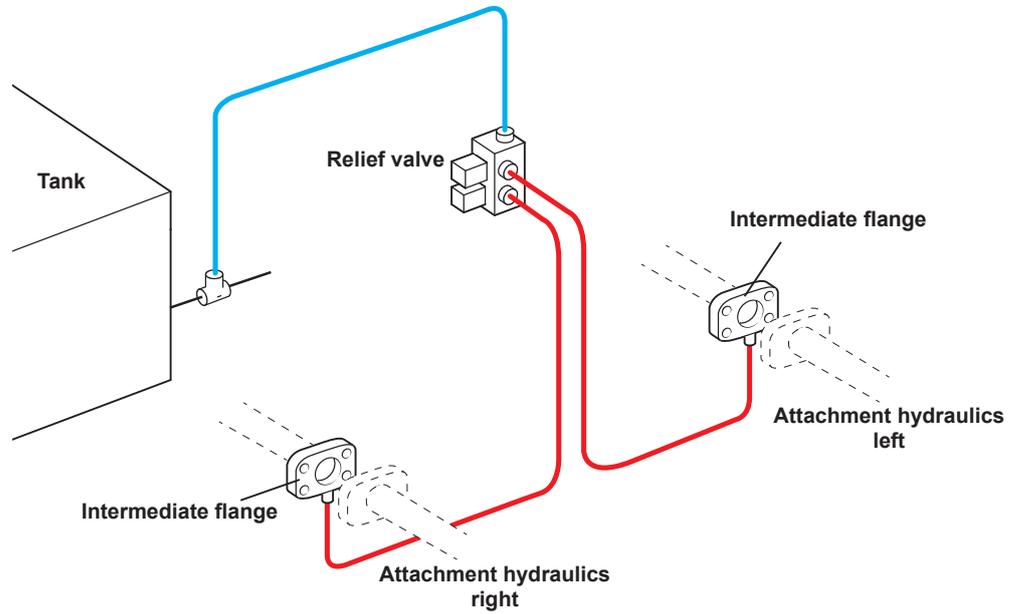


5. Release the remaining pressure through the relief valve on the tank.
6. Close the valves on the dipper stick.

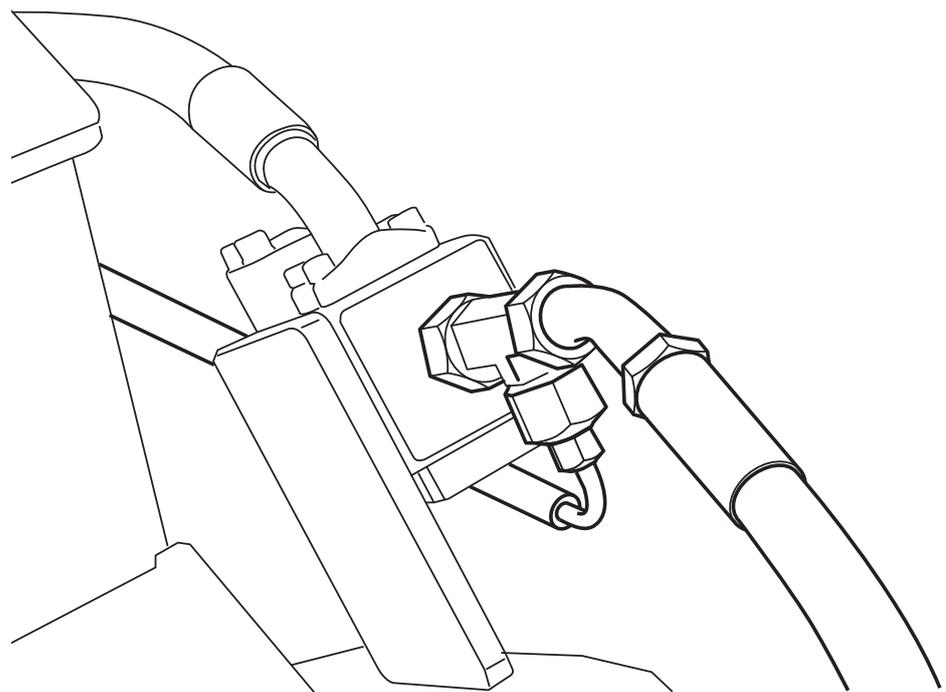
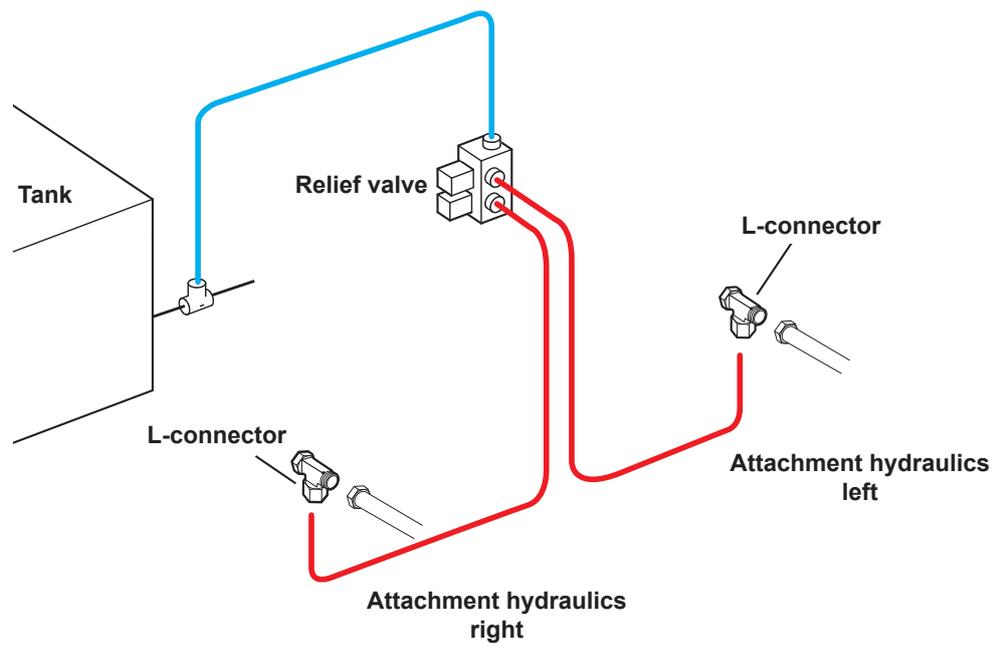
Connection of hoses between the relief valve and attachment hydraulics

Connection of hoses between the relief valve and the attachment hydraulic hose coupling is carried out with either an intermediate flange or an L-connection depending on the machine design.

Connection with intermediate flange

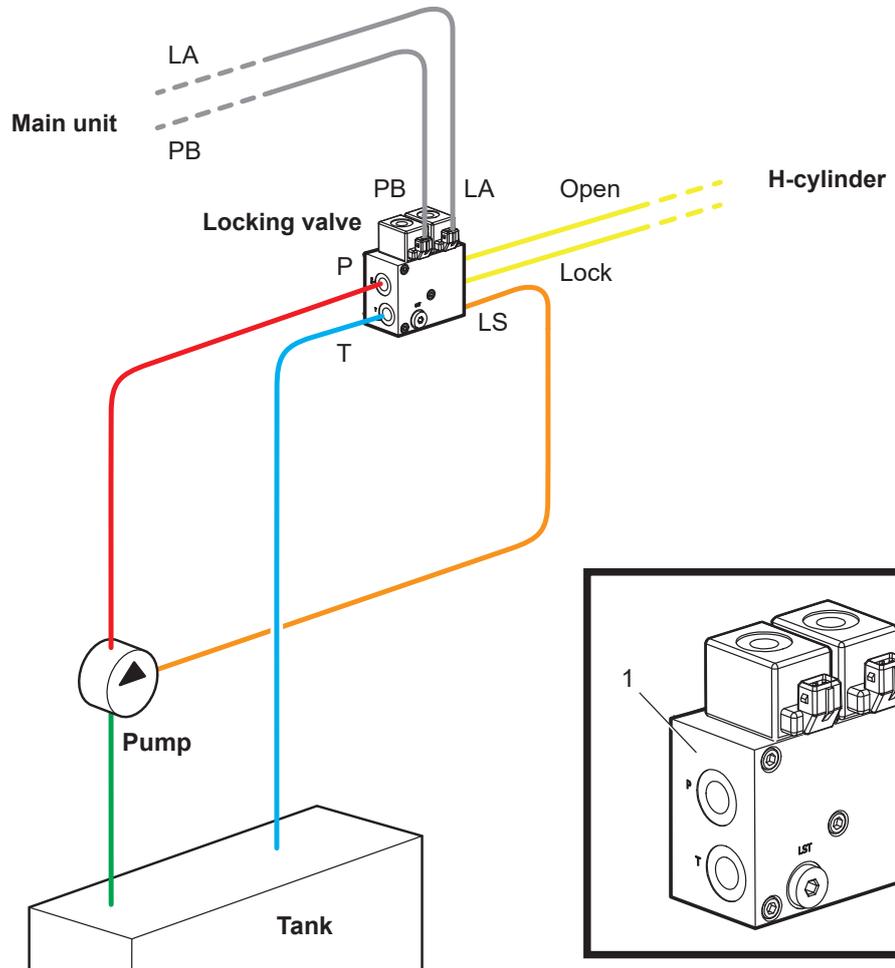


Connection with L-connectors



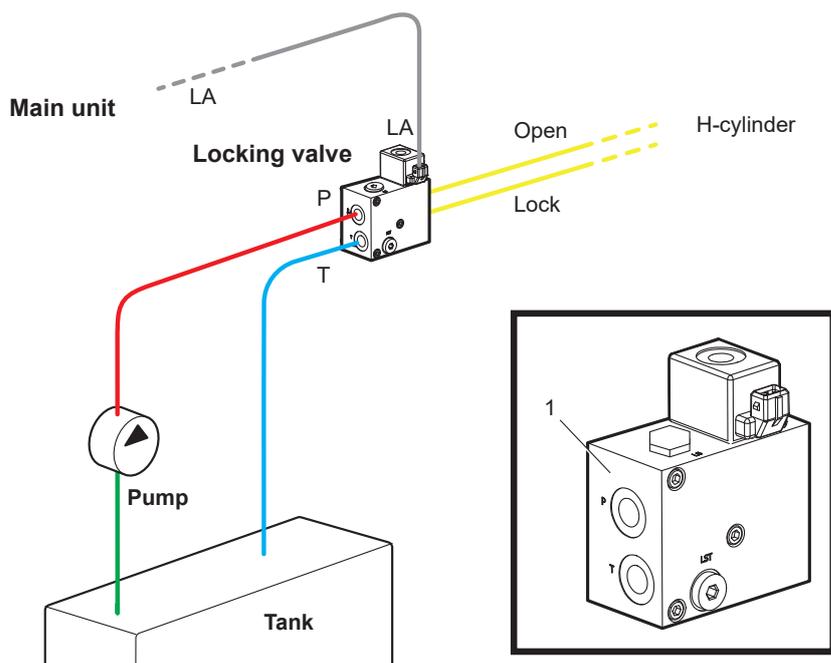
Installation of locking valve

Locking valve with LS control



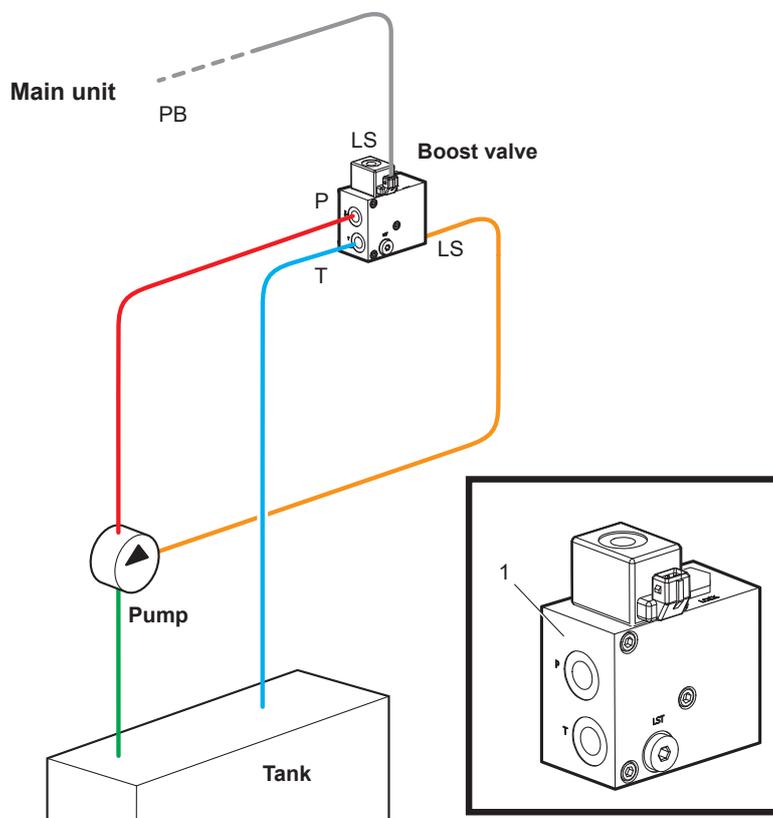
Pos.	Quantity	Article number	Designation	Note
1	1	4120613	Locking valve	

Locking valve without LS control



Pos.	Quantity	Article number	Designation	Note
1	1	4124046	Locking valve	

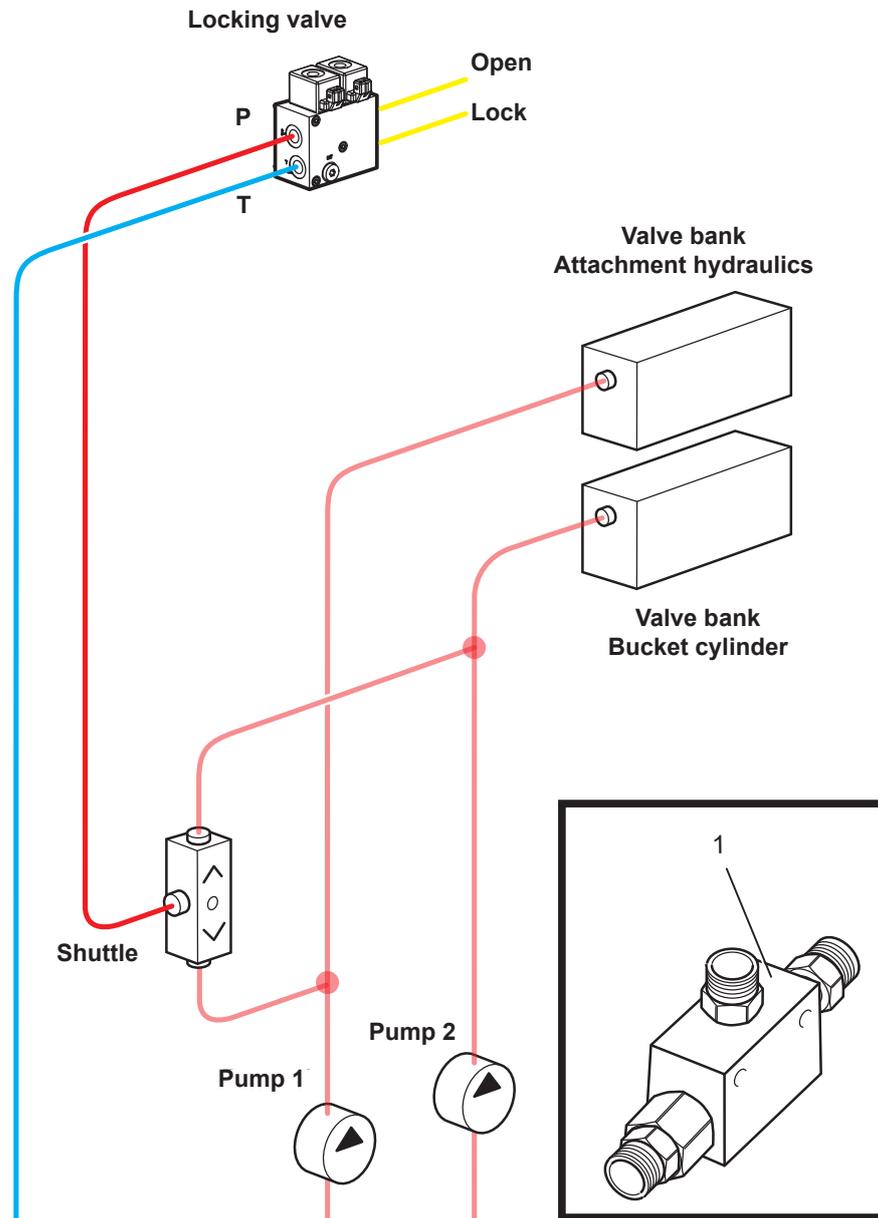
Valve with LS control



Pos.	Quantity	Article number	Designation	Note
1	1	4124326	Locking valve	

Installation of locking valve on machines with double pumps

To ensure that the machine maintains the highest system pressure in all circumstances, the pumps must be connected to a shuttle. A spring-loaded ball inside the shuttle controls the oil flow to the locking valve which opens the flow at the specified oil pressure.



Pos.	Quantity	Article number	Designation	Note
1	1	7005005	Shuttle valve	

Locking valve (VOLVO)

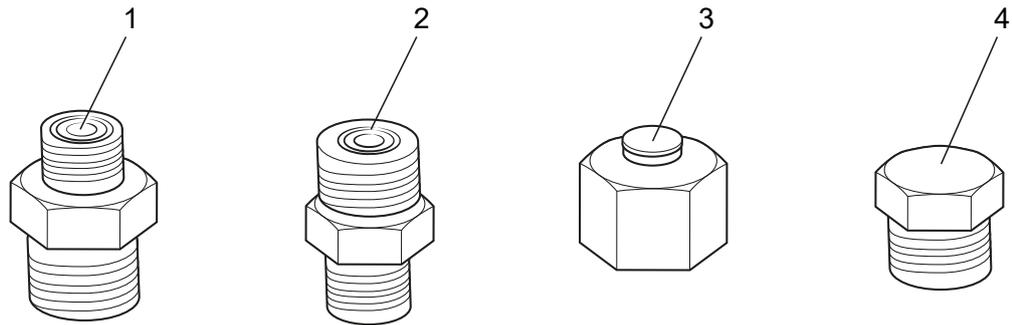


When working with hydraulic oil, protective gloves must be worn to avoid direct skin contact with the hydraulic oil. There is a risk of skin irritation and allergies. Be aware of and protect the environment. Collect all waste oil and clean up any spillage.



Cleanliness must be observed when working on hydraulic systems. There is a risk of malfunction if contaminants enter the system.

Material



Pos.	Quantity	Designation	Note
1	1	Adapter straight	Not included *
2	1	Adapter straight	Not included *
3	1	Plug	Not included *
4	1	Plug ORFS O6	Not included *

* Not included in the delivery. Obtained based on the machine version.

Modification of locking valve

The aim of modifying the locking valve is to obtain full pressure on both the A and B port regardless of work load

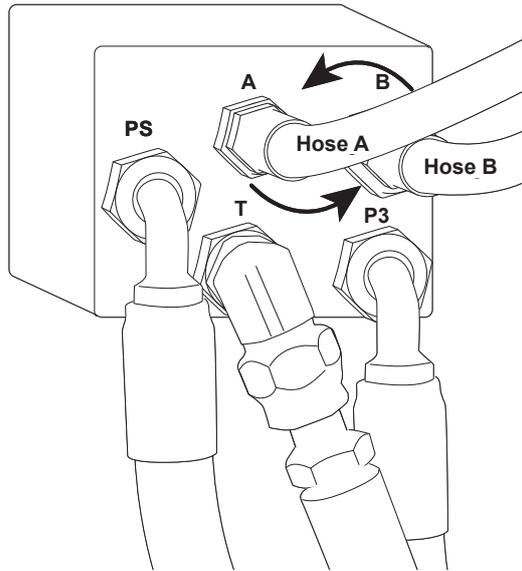


REMARK!
If the machine is supplied for full pressure the locking valve has already been modified.

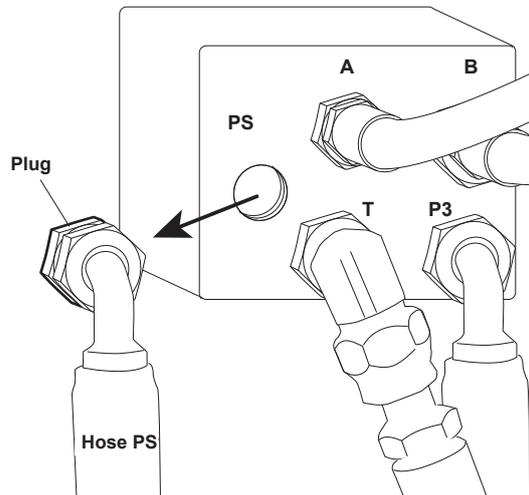


REMARK!
Check the designations of the ports carefully. The locking valves are available in a number of versions.

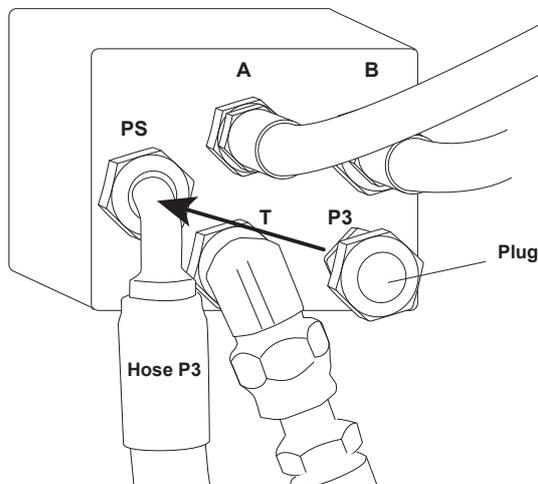
1. Swap positions of the hoses between port A and B.



2. Remove the hose going to port PS and plug it.



3. Remove the hose coming from port P3 and move it to port PS.
4. Plug port P3.

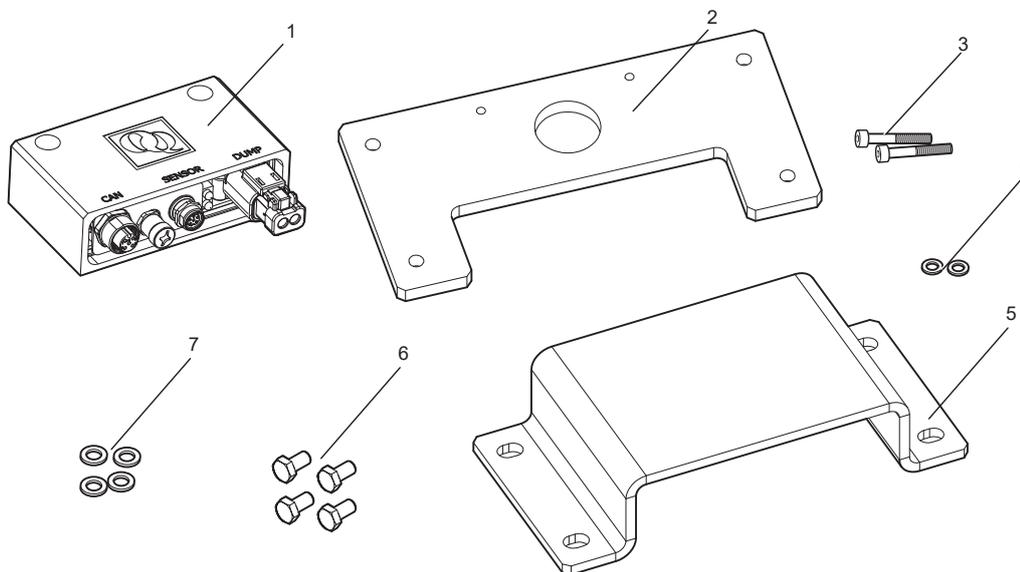


Dipper stick unit



NOTE!
The dipper stick unit must be securely welded. The machine manufacturers discourage all drilling in the dipper stick.

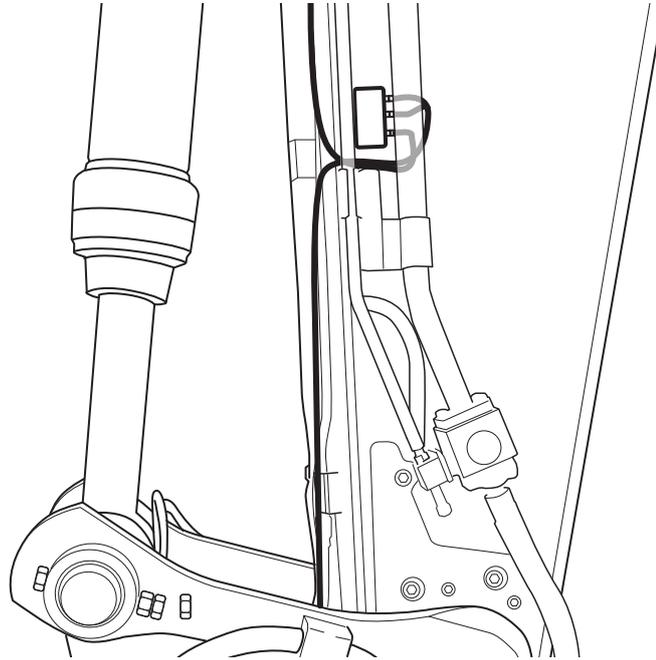
Material



Pos.	Quantity	Designation	Note
1	1	Dipper stick unit	Included in delivery
2	1	Welding plate	Included in delivery
3	2	Allen screw	Included in delivery
4	2	Lock washer	Included in delivery
5	1	Protective plate	Included in delivery
6	4	Screw M8	Included in delivery
7	4	Nord-Lock M8 washer	Included in delivery

Installation

1. Measure out space for the dipper stick unit approx. 1000-1200 mm from the lower edge of the dipper stick. Position the unit in a protected area, e.g. under hydraulic pipes. The image shows a location example.



2. Weld on the new coupler, rust-proof and paint in the colour of the machine.
3. Screw on the dipper stick unit with the Allen screws.
4. Mount the protective plate so that it covers the stick unit and fasten it with screws and Nord-Lock washers.

Connection of wiring

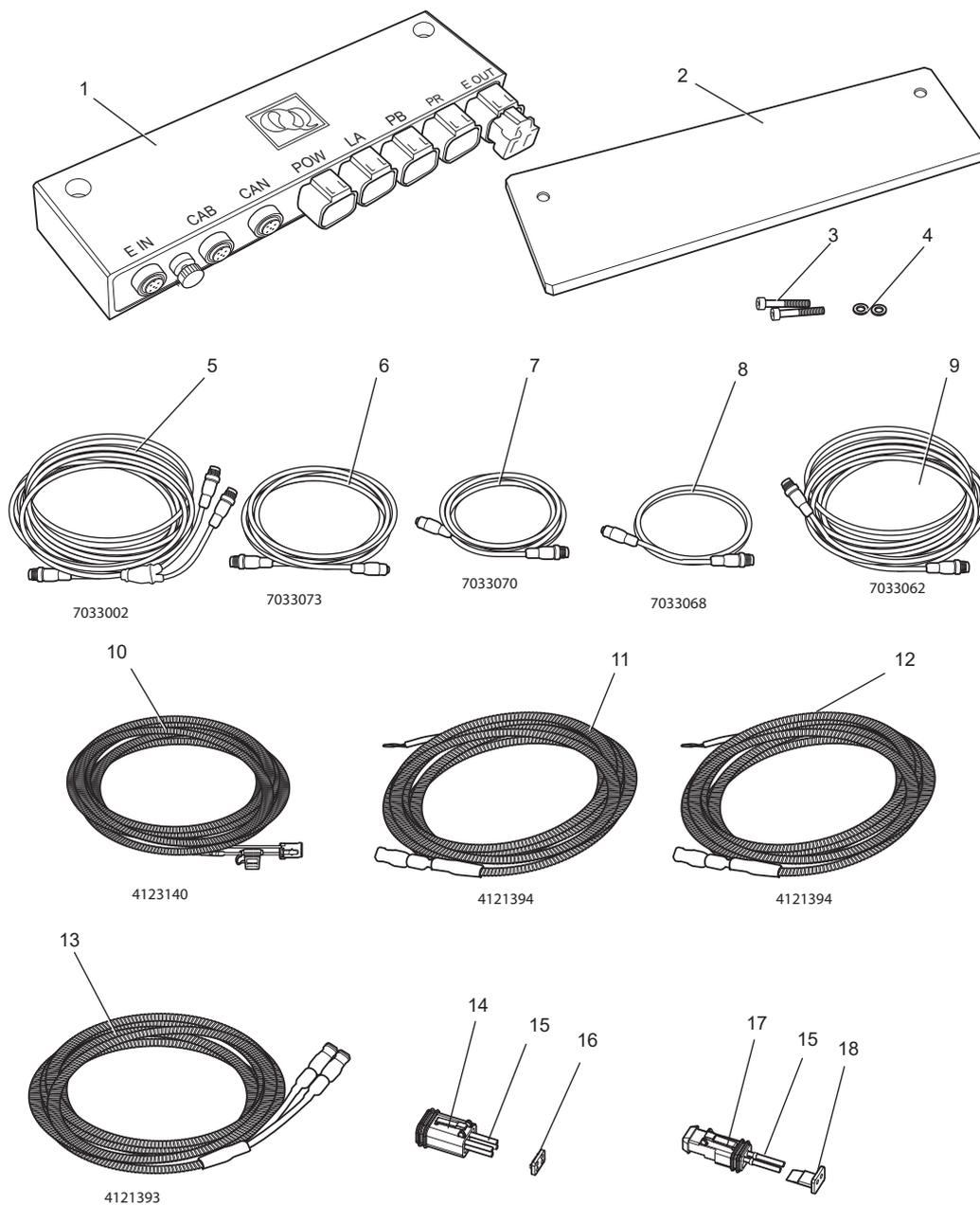
1. Connect the cable from the quick coupler to the dipper stick unit (SENSOR).

Main unit



NOTE!
Before the quick coupler is installed, the machine supplier must be contacted for instructions regarding suitable connection points for hydraulics and electronics.

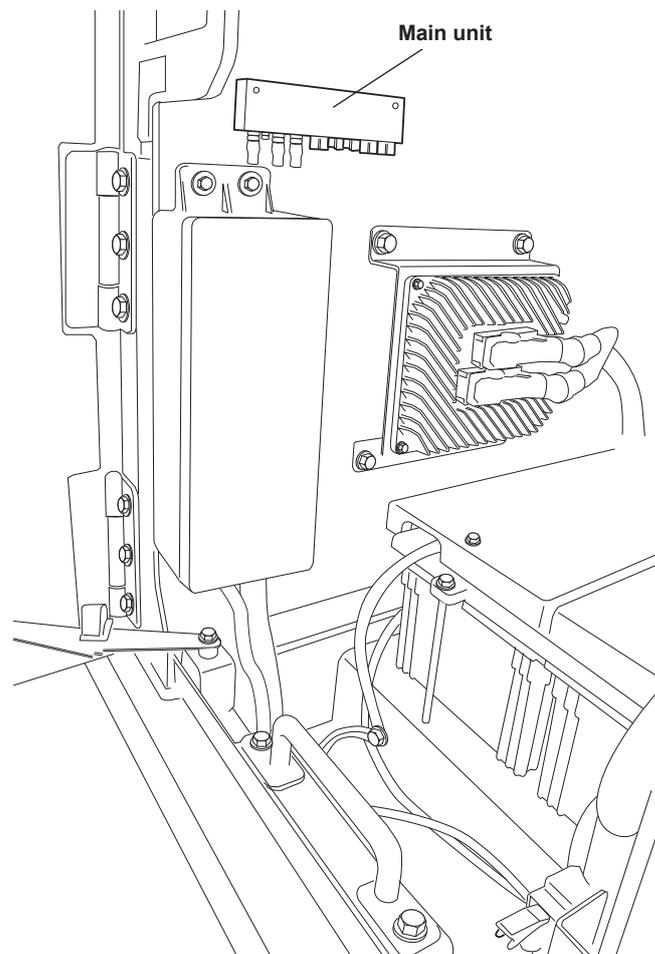
Material



Pos.	Quantity	Designation	Note
1	1	OQLS 2.0 Main unit	
2	1	Mounting plate main unit	
3	2	Screw	
4	2	Lock washer	

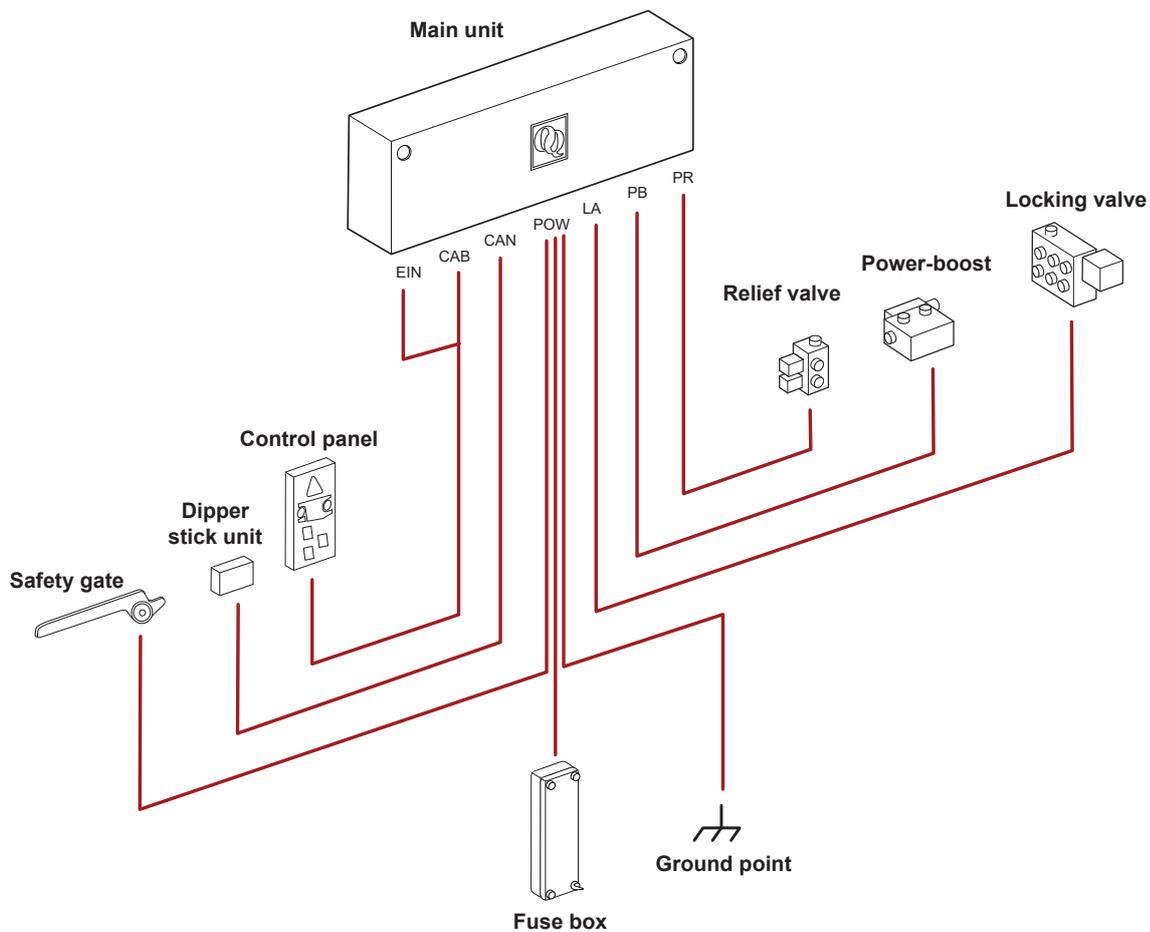
Pos.	Quantity	Designation	Note
5	1	OQLS 2.0 control panel cable	EIN/CAB *Includes cable protection
6	1	Extension cable cabin 2m 8-pin	*Includes cable protection
7	1	Extension cable 2 m, 4-pin	*Includes cable protection
8	1	Extension cable 0,5 m 4-pin	CAN *Includes cable protection
9	2	Boom cable male-male, 4-pin	Stick unit *Includes cable protection
10	1	Connection cable	POW
11	1	Connection cable	LA
12	1	Connection cable	PB
13	1	Connection cable	PR
14	1	4-pin connector	
15	12	Connector	
16	2	Secondary locking	
17	2	2-pin connector	
18	2	Secondary locking	

Installation



The main unit is conveniently installed close to the fuse box.
Image shows position example,

Connection of wiring



Wiring to voltage supply and safety gate (POW)

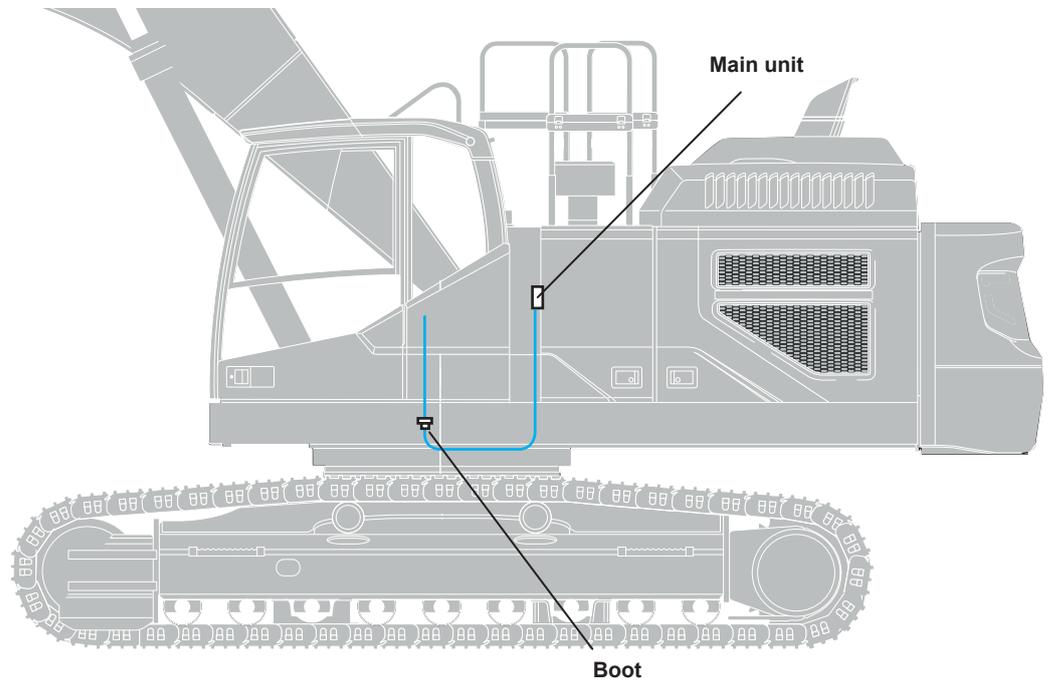
1. Connect the cable to the POW output on the main unit.
2. Connect the positive cable to 15+ supply (ignition current). The positive cable must be 10A fused in a suitable way.
3. Connect the ground cable to the batteries ground point.
4. Route the cables for safety gate and the control panel from the engine compartment to the cab.

Connection of safety gate wiring

1. Locate the safety gates contact located near the safety gate.
2. Determine which cable is the signal cable by measuring the voltage. The signal cable is powered when the machine is in drive mode.
3. Splice the safety gate cable from the LA main unit with the signal cable in a safe manner.

Wiring to control panel (CAB and EIN)

1. Route the cables from the main unit in the engine compartment to the cab in a safe way. The image shows an example.



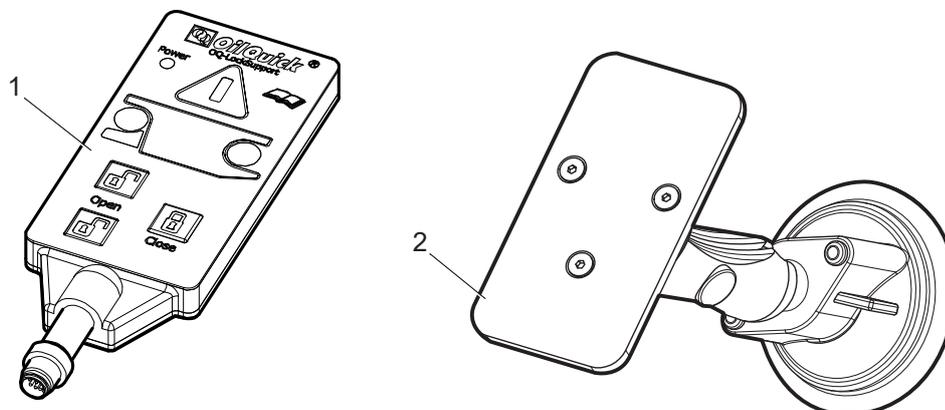
2. Connect the wire to CAB and EIN outputs on the main unit.

Mounting and connecting the control panel



NOTE!

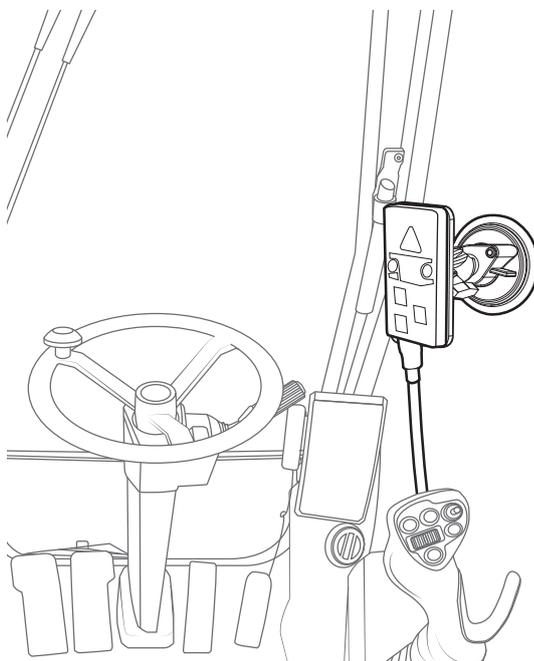
The control panel can be mounted in the cab in two alternative ways, either with the OQLS panel holder or directly on a suitable surface in the cab, e.g. on the cabin window on the driver's right side.



Pos.	Quantity	Designation	Note
1	1	OQLS 2.0 Control panel	
2	1	OQLS Panel holder with suction foot	*Option

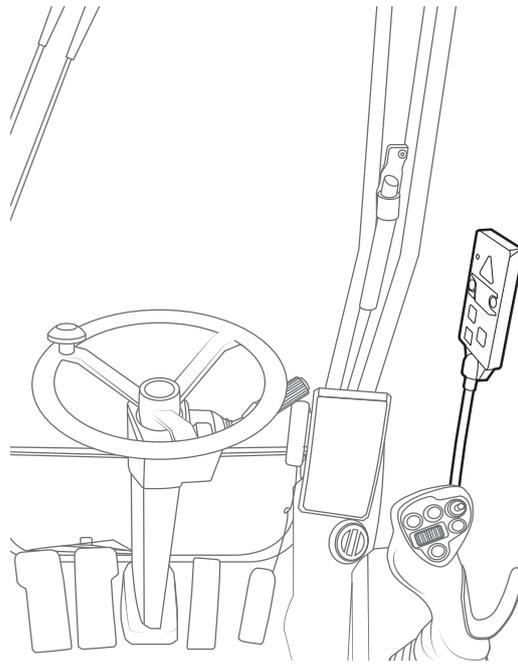
*Optional, only included in the delivery if specified.

Option 1 - Control panel with panel holder



1. Clean the surface or dirt and grease.
2. Mount the suction cup arm on a suitable surface in the cab.
3. Make sure that the suction cup arm attaches to the surface.
4. Remove the protective paper and secure the control panel in the panel holder.
5. Connect the cable from the main unit.

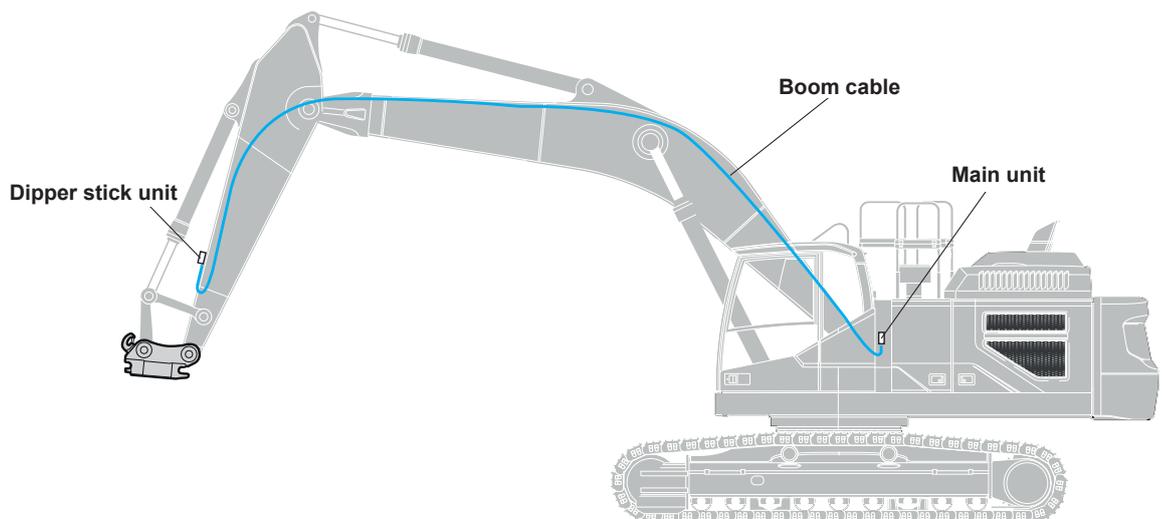
Option 2 - Directly mounted control panel



1. Clean the surface of dirt and grease.
2. Remove the protective paper and secure the control panel.
3. Make sure that the control panel attaches to the surface.
4. Connect the cable from the main unit.

Wiring from stick unit (CAN)

1. Protect the boom cable if not already protected.
2. Connect the boom cable to the stick unit.
3. Lay the boom cable on the left-hand side together with the hydraulic pipe. Secure with cable ties.



4. Follow the existing wiring through the engine compartment to the machine compartment.
5. Connect the CAN-cable to the CAN socket on the main unit.
6. Connect the Boom cable to the CAN-cable.

Wiring from lock valve (LA)

1. Connect the cable to the valve and route the cable in a safe manner to the engine compartment.
2. Fit the cable and connect to the main unit (LA).

Cable marked:	Connected to pin:
1	1 (+)
2	2 (GND)

Wiring from Power-boost (PB)

1. Connect the cable to the valve and route the cable in a safe manner to the engine compartment.
2. Fit the cable and connect to the main unit (PB).

Cable marked:	Connected to pin:
1	1 (+)
2	2 (GND)

Wiring from the relief valves (PR)

1. Connect the cable (PR) to the relief valves according to the table below.

Valve 1

Cable marked:	Connected to pin:
1	1 (+)
2	2 (GND)

Valve 2

Cable marked:	Connected to pin:
3	3 (+)
4	4 (GND)

2. Fit the cable and connect to the main unit (PR).

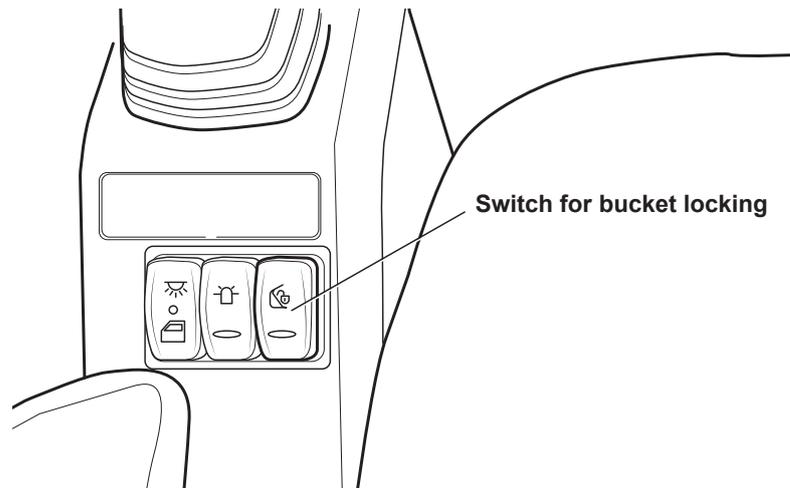
Removal of switch for bucket lock



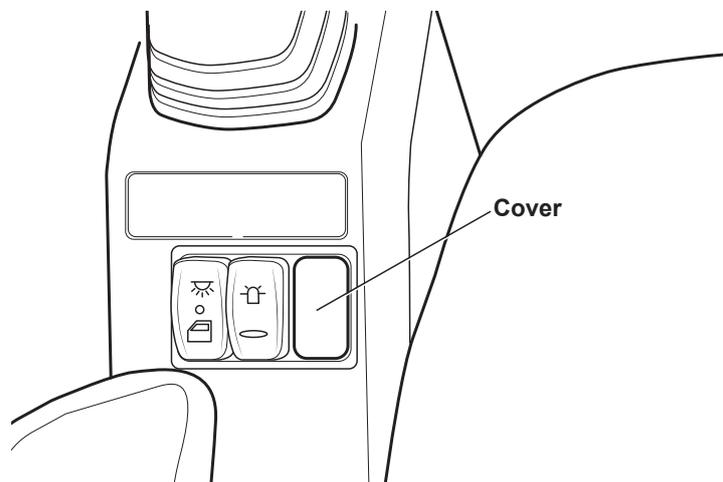
NOTE!

When the system is installed, the switch for bucket lock must be disconnected and removed. Ensure that the switch is retained to allow the function to be reused in the future.

The image shows an example.



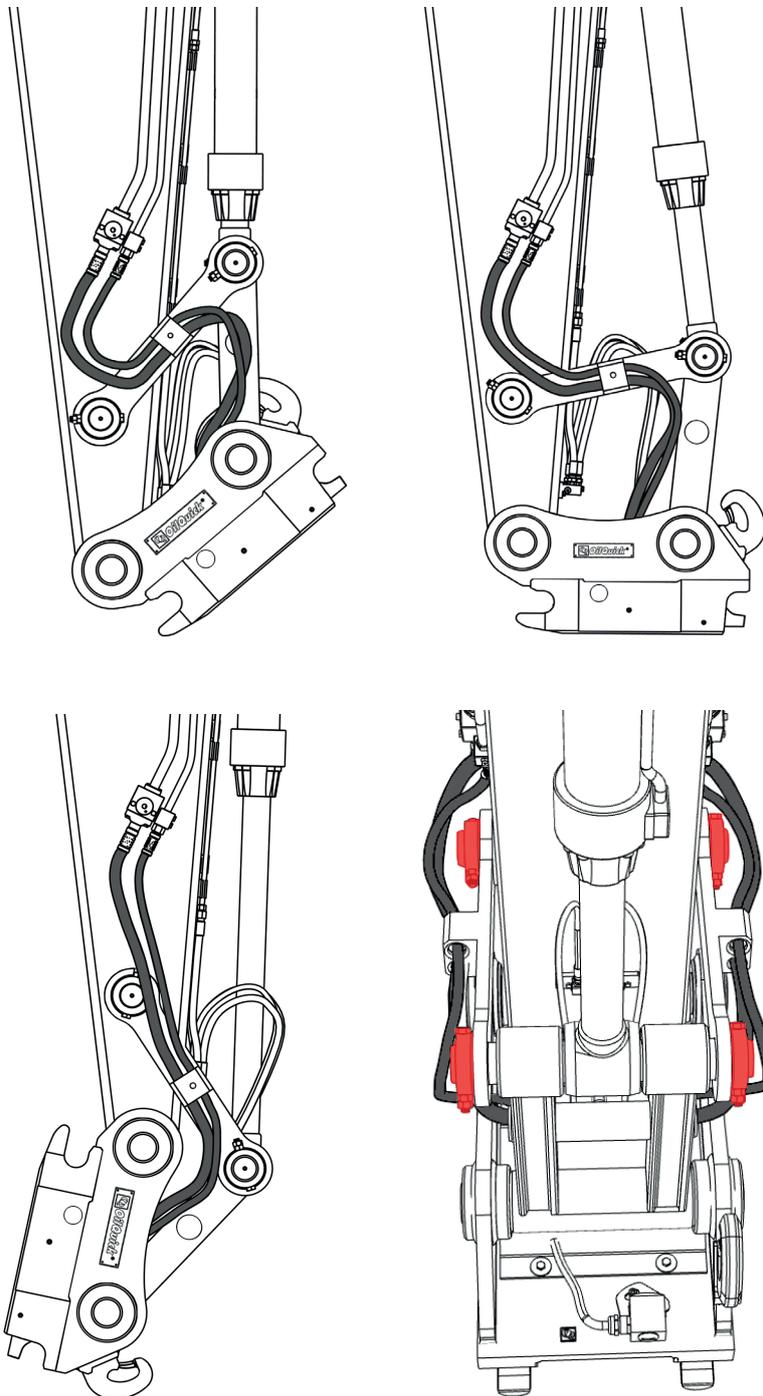
Removal



Checks

Checking location of the hoses

Check that all hoses are positioned so that they can follow the movements of the machine without becoming damaged.



Checking cable routing

Check that all cables are safely routed and cannot be damaged by machine movements.

Checking connectors

Check that all connectors are correctly connected.

Checking safety gate

Check function with a lowered safety gate

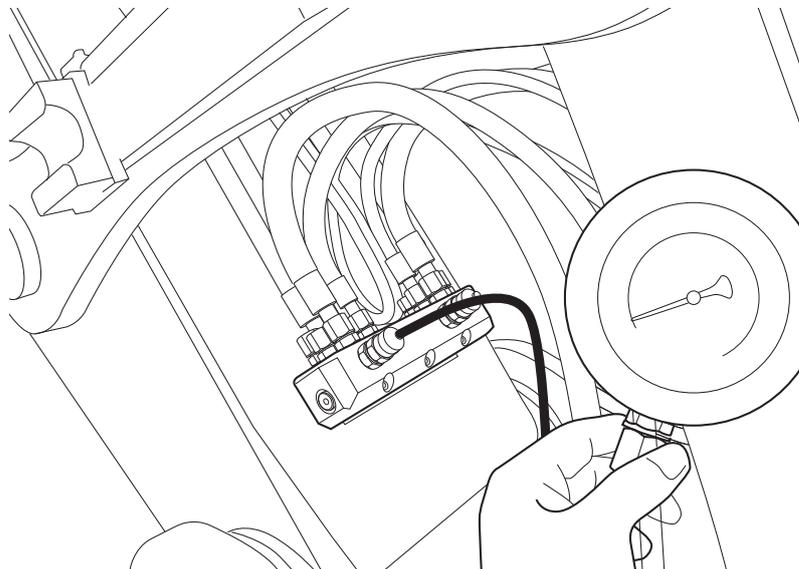
1. Switch on the ignition.
2. Lower the safety gate.
3. Press and hold down both Open buttons on the control panel until it beeps (approx. three seconds).
4. Release both buttons.
5. At correct function, the control panel will be silent.

Check function with a raised safety gate

1. Switch on the ignition.
2. Raise the safety gate.
3. Press and hold down both Open buttons on the control panel until it beeps (approx. three seconds).
4. Release both buttons.
5. At correct function, the control panel will beep.

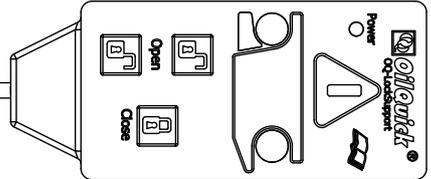
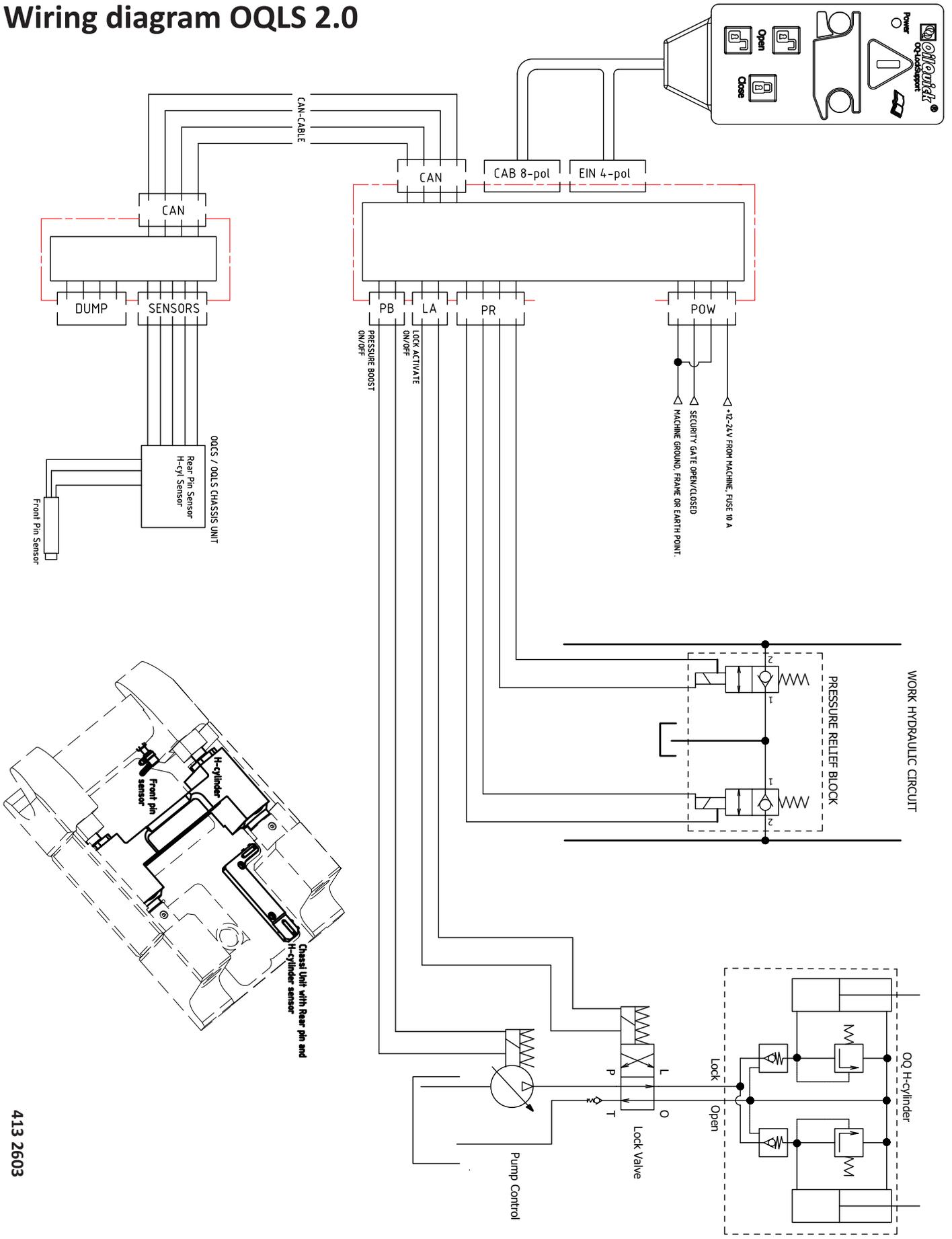
Checking locking pressure

1. Unscrew the Allen plug from the LOCK output on the guide block.
2. Connect a 1/4" BSB measuring device.



3. Start the machine.
4. Check that the locking pressure increases to full pressure working pressure when the pressure on the attachment hydraulics increases.
5. Also check that the locking pressure increases to full working pressure when the pressure on the bucket hydraulics increases.

Wiring diagram OQLS 2.0



413 2603

Registration of installation

The product warranty for this OilQuick product is dependent on the correct installation on machine and attachment. By filling in and sending this registration card to OilQuick AB immediately, it is confirmed that the installation has been performed according to the instructions in this publication.

When the registration card has been received by OilQuick AB, the end customer is registered as the warranty holder for this product.

Unless otherwise agreed, the warranty conditions apply as stated in this product manual. The requested information regarding product type and serial number is stated on the product identification plate.

Send the filled in registration card to:

OilQuick USA
155 Main Street
Superior, WI 54880

Tel: 262-607-8425

Fax: 705-395-3703

E-mail: info@oilquickUSA.com

Name and address of the end customer:.....

Tel:.....

E-mail:

Type of OilQuick quick coupler:.....

Serial number:

Machine type:

Machine weight:

Type of hydraulic accessories:

It is hereby confirmed that the following checks have been carried out:

- All hoses are positioned so they can follow the movements of the machine without becoming damaged.
- All cables are safely routed and cannot be damaged by the machine's movements.
- All connectors are correctly connected.
- Function of the safety gate.
- Correct locking pressure.

Installation date:.....

Installer, name:

Installer, company:.....

Arrival date at OilQuick AB (Filled in by OilQuick AB):


Cut here!

Dealer:



OilQuick Americas

155 Main Street
Superior, WI 54880
Tel: 262-607-8425
Fax: 715-395-3703
Email: info@oilquickamericas.com
Web: www.oilquickamericas.com

Part #: OQ7414137