

Attachments

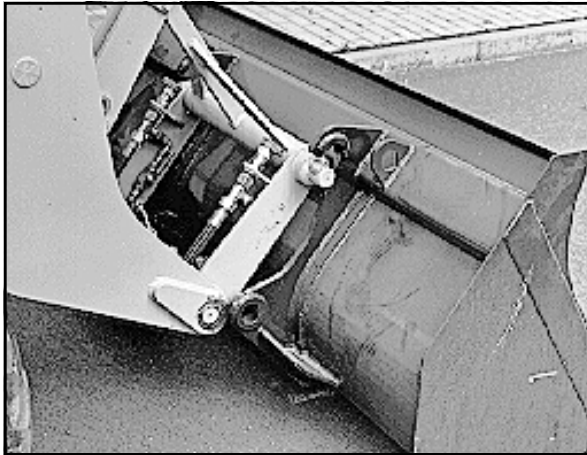


Figure 6-1

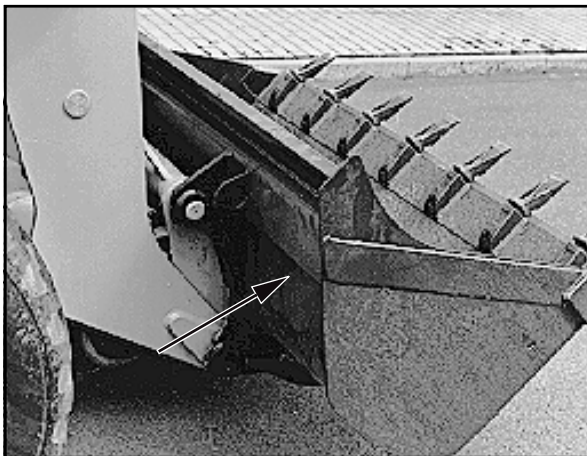


Figure 6-2

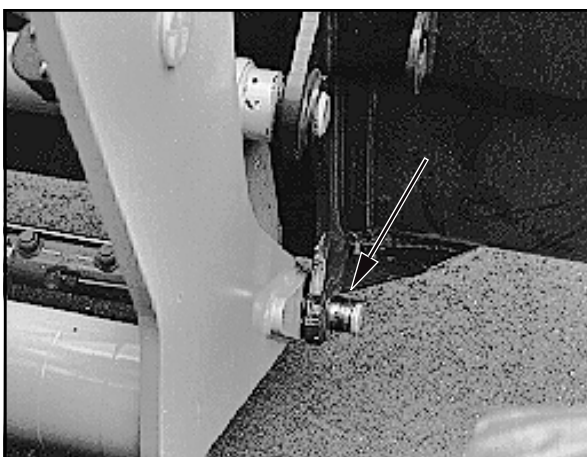


Figure 6-3

6 Attachments

6.1 Mounting and dismounting the attachments without hydraulic connections

6.1.1 Standard/lightweight bucket Mounting

- (1) Bring the bucket arm to its lowest position and tip the quick-change device.
- (2) Drive the loader up to the bucket (6-1).
- (3) Pick up the bucket using the quick-change device and, by simultaneously tilting the quick-change device, raise the bucket until the quick-change device is next to it (6-2).
- (4) Lock the bucket with the upper pushbutton for the auxiliary hydraulics (4-10/11).
- (5) Check the connection and the lock on both sides.

DANGER

Both bolts of the quick-change device must be in the boreholes of the bucket support and must be clearly visible (6-3/arrow).

Dismounting

- (1) Place the bucket firmly on the ground.
- (2) Press the release button for the quick-change device (4-11/2) and, while keeping the upper buttons for the auxiliary hydraulics (4-10/11) pressed, unlock the bucket.

CAUTION

The hydraulic quick-change device must only be **locked** when an attachment has been mounted.

- (3) Tilt the quick-change device and reverse out.

6.1.2 Fork-lift attachment

NOTE

Mounting and dismounting are carried out in the same way as for the standard/lightweight bucket (section 6.1.1).

DANGER

- Both bolts of the quick-change device must be in the boreholes of the fork-lift attachment and must be clearly visible (6-4/2).
- Distribute the weight equally on both fork tines and secure it against moving and falling off.
- Rest the load at the rear of the fork and tilt the fork-lift attachment.
- Position both fork tines at an equal distance from the center (6-5/arrows) and lock them.

CAUTION

The hydraulic quick-change device must only be **locked** when an attachment has been mounted.

NOTE

- The fork tines are locked correctly when the two tiltable locking levers are fully positioned on the fork carrier.
- The type plate is on the rear of the upper fork support (6-4/1).

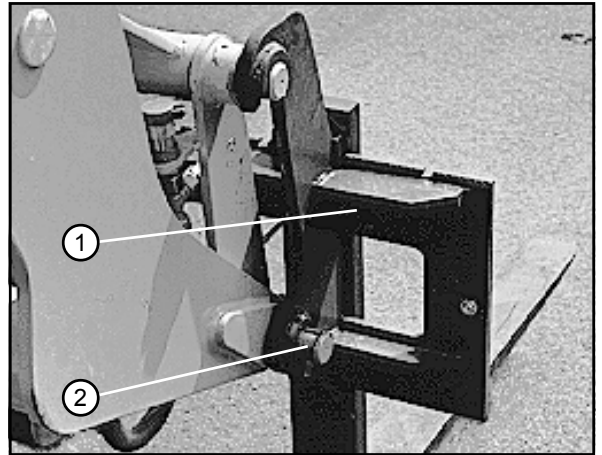


Figure 6-4

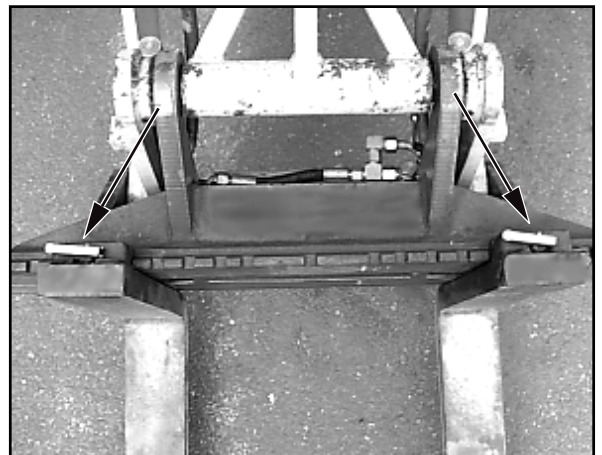


Figure 6-5

6.1.3 Lifting hook

NOTE

Mounting and dismounting are carried out in the same way as for the standard bucket (chapter 6.1.1).

DANGER

- Both bolts of the quick-change device must fit in the boreholes of the lifting hook attachment and must be clearly visible.
- Check the safety flap on the crane hook for proper functioning.

CAUTION

The hydraulic quick-change device must only be **locked** when an attachment has been mounted.



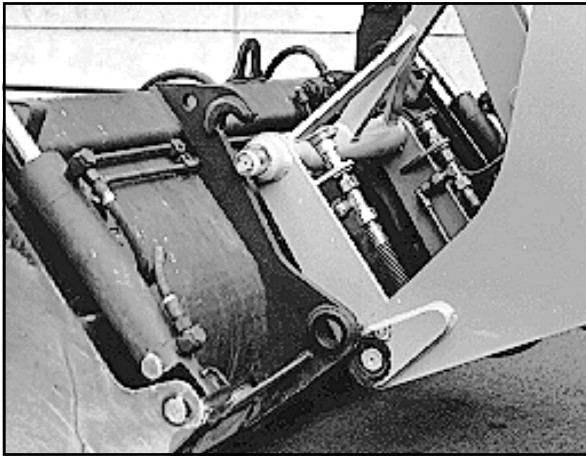


Figure 6-6

6.2 Mounting and dismounting attachments with a hydraulic connection

6.2.1 Multi-purpose bucket

Mounting

- (1) Bring the bucket arm to its lowest position and tip the quick-change device.
- (2) Drive the loader up to the bucket (6-6).

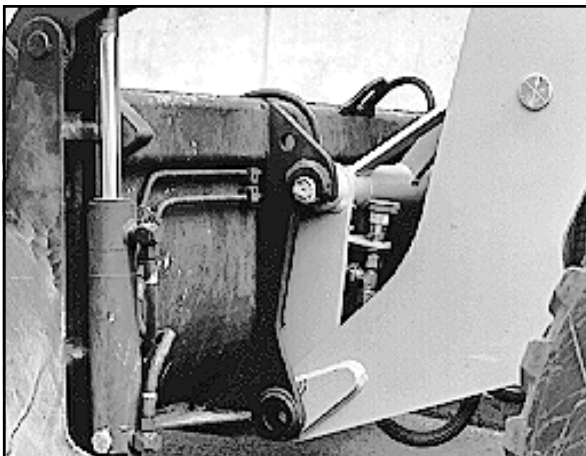


Figure 6-7

- (3) Pick up the bucket using the quick-change device and, by simultaneously tilting the quick-change device, raise the bucket until the quick-change device is next to it (6-7).

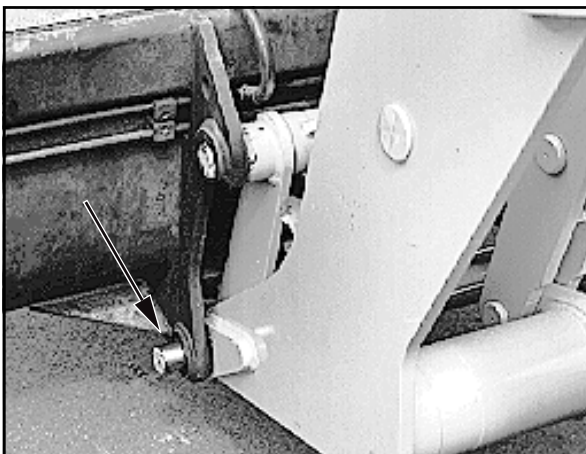


Figure 6-8

- (4) Lock the bucket with the upper pushbutton for the auxiliary hydraulics (4-10/11).

- (5) Check the connection and the lock on both sides.

DANGER

Both bolts of the quick-change device must fit in the boreholes of the bucket support and must be clearly visible (6-8/arrow).

(6) Shut down the engine and turn the ignition key to "I".

(7) Depressurise the hydraulic lines. For this purpose, press both pushbuttons for the auxiliary hydraulics (4-10/11) alternately several times.

(8) Remove the protective caps from the hoses of the quick-change device (6-9/1).

(9) Swing up the protective flaps of the quick-action couplings of the multi-purpose bucket (6-9/2) and connect them with the hydraulic hoses of the quick-change device (6-9) by pushing them firmly in.

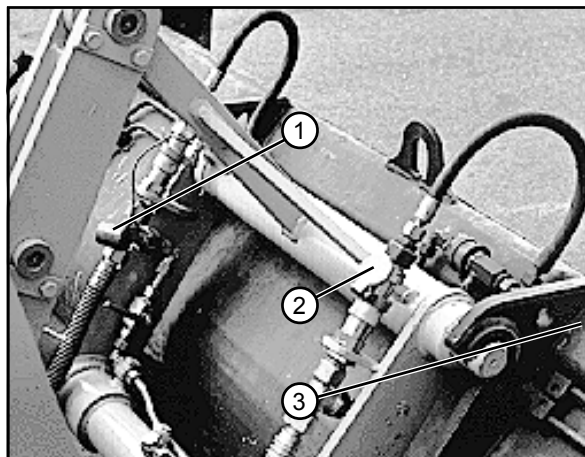


Figure 6-9

NOTE

Use the outermost connections if the loader is equipped with the second auxiliary hydraulics circuit (option).



CAUTION

When making connections, pay attention that the hydraulic connections are clean and complete.



Dismounting

(1) Place the multi-purpose bucket firmly on the ground.

(2) Shut down the engine and turn the ignition key to "I".

(3) Depressurise the hydraulic lines. For this purpose, press both pushbuttons for the auxiliary hydraulics (4-10/11) alternately several times.

(4) Dismounting takes place in the reverse order of mounting. However, to unlock the multi-purpose bucket, the release button for the quick-change device (4-11/2) must be used.

CAUTION

The hydraulic quick-change device must only be **locked** when an attachment has been mounted.



NOTE

The type plate is on the rear of the bucket, on the right below the cross arm (6-9/3).



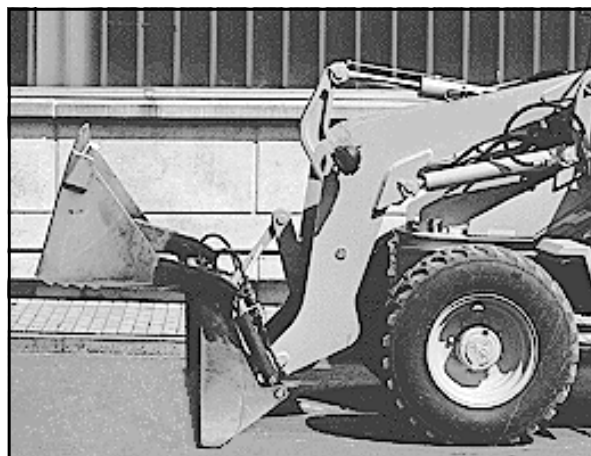


Figure 6-10

Notes on the application of the multi-purpose bucket

The multi-purpose bucket can be used for:

- peeling (6-10)



Figure 6-11

- scraping (6-11)

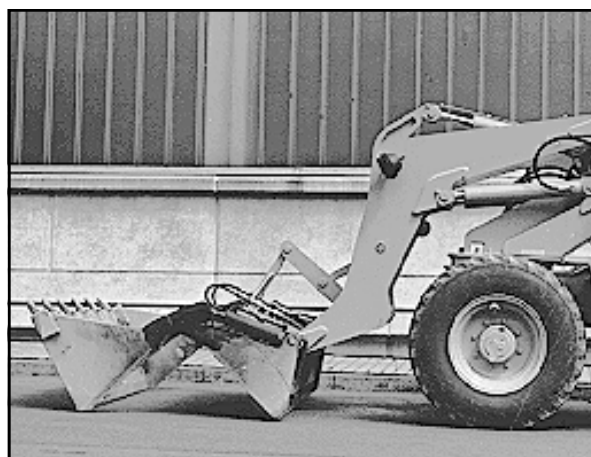


Figure 6-12

- grabbing (6-12) and
- in bucket operation.

6.2.2 Front-end excavator

NOTE

Only for loaders with second auxiliary hydraulics circuit.

Mounting

Mounting is carried out in the same way as for the multi-purpose bucket (section 6.2.1 (1) ... (9)), with the exception that **all four** hydraulic hoses of the front-end excavator must be connected to the four quick-action couplings of the quick-change device.

DANGER

Both bolts of the quick-change device must be in the boreholes on both sides of the front-end excavator mount and must be clearly visible (6-13/arrow).

CAUTION

When making connections, pay attention that the hydraulic connections are clean and complete.

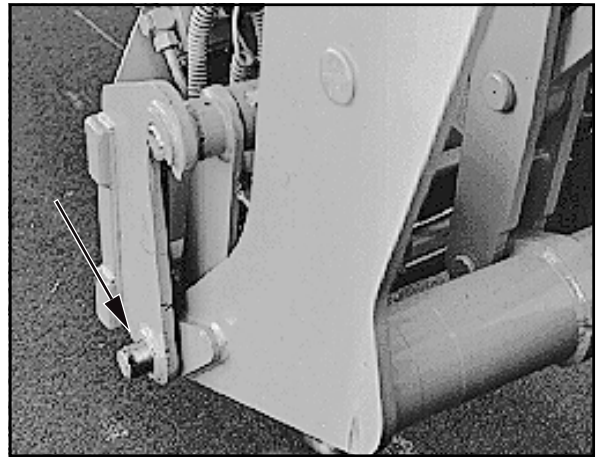


Figure 6-13

Dismounting

Dismounting is carried out in the same way as for the multi-purpose bucket (section 6.2.1), with the exception that all four hydraulic hoses of the front-end excavator must be uncoupled from the quick-action couplings of the quick-change device.

CAUTION

The hydraulic quick-change device must only be **locked** when an attachment has been mounted.

NOTE

The type plate is on the right side of the shaft, near the support plate.

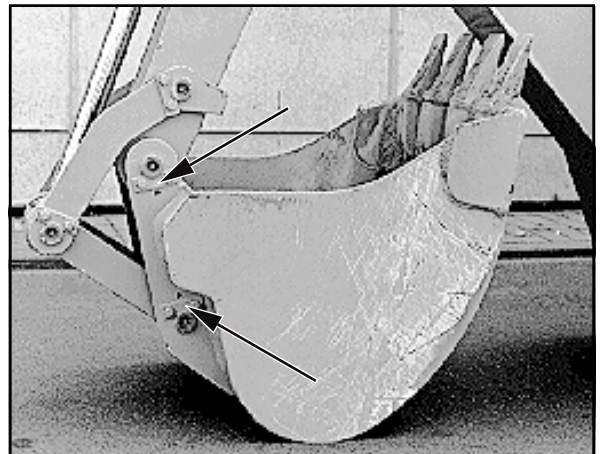


Figure 6-14

6.2.2.1 Changing the backhoe

- (1) Lift the bucket arm and fit the bucket arm support (1-1/arrow).
- (2) Bring the front-end excavator into a position so that the backhoe rests with its back on the ground.
- (3) Switch off the engine.
- (4) Remove the pressure from the hydraulic lines by moving the hand lever for the auxiliary hydraulics (6-19b/5) back and forth.
- (5) Close both ball block valves (6-19a/arrows).
- (6) Unscrew the safeguards for the bolts (size 19) (6-14/arrows).
- (7) Knock out the bearing pin (6-15/arrows) and take off the backhoe.
- (8) Fitting takes place in reverse order of dismounting.

NOTE

The type plate is on the left outer side of the backhoe.

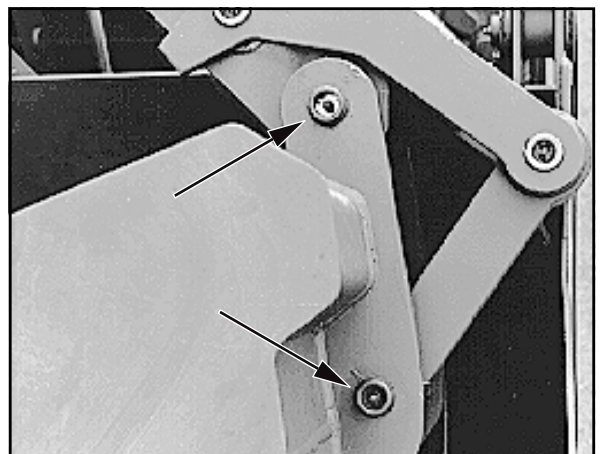


Figure 6-15

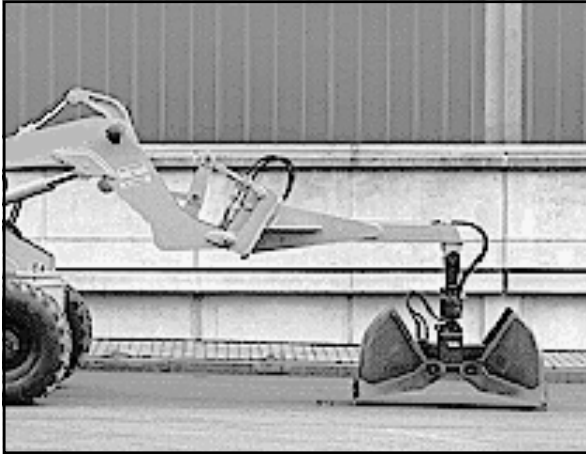


Figure 6-16

6.2.3 Grab

NOTE

- Only for loaders with second auxiliary hydraulics circuit.
- Fig. 6-16 shows the loader with the grab in its most far-reaching position at the start of digging.
- The grab movements are shown on the symbol for the hand lever of the auxiliary hydraulics (6-25).
- The grab may be continuously swiveled around its vertical axis in the clockwise and counterclockwise directions.

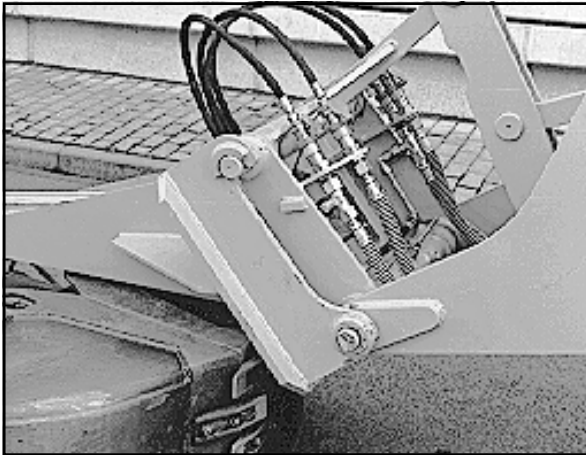


Figure 6-17

Mounting

Mounting is carried out in the same way as for the multi-purpose bucket (section 6.2.1 (1) ... (9)), with the exception that **all four** hydraulic hoses of the grab must be connected to the four quick-action couplings of the quick-change device.

When doing so, make sure to connect the inner hoses on the grab arm to the inner quick-action couplings of the quick-change device and the outer hoses to the outer quick-action couplings of the quick-change device (6-17).

NOTE

The grab movements will not match those shown on the label (6-25) if the hydraulic hoses are connected incorrectly.

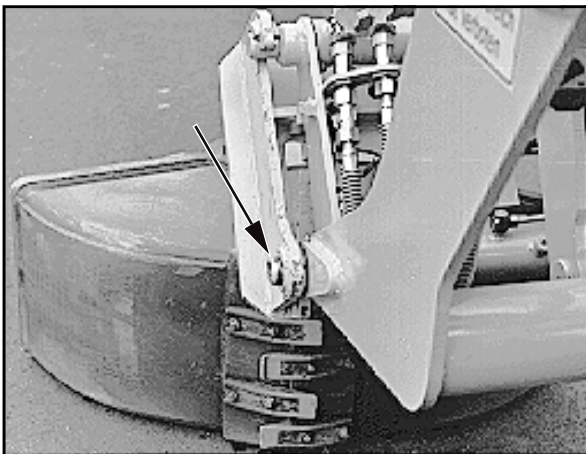


Figure 6-18

DANGER

Both bolts of the quick-change device must be in the boreholes on both sides of the grab arm and must be clearly visible at both sides (6-18/arrow).

Dismounting

Dismounting is carried out in the same way as for the multi-purpose bucket (section 6.2.1).

CAUTION

- The grab must be laid down on level ground with closed grab blades to avoid damage to hoses or joints.
- The hydraulic quick-change device must only be **locked** when an attachment has been mounted.

NOTE

The type plate is located on the upper side of the shaft, near the support plate.

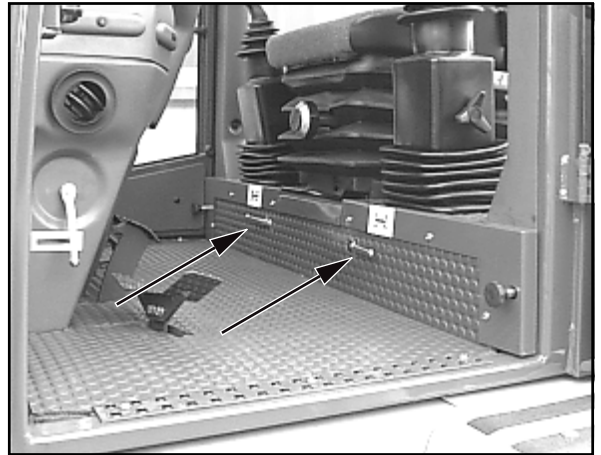


Figure 6-19a

6.2.4 Temporary use of a working platform

NOTE

Only for loaders with second auxiliary hydraulics circuit.

DANGER

- Only experienced, reliable operators that have been specially trained for this work may be charged with driving the carrier with attached working platform.
- The working platform may only be entered or left when the operator has given the permission and when the machine is at a standstill.
- If the operator leaves the driver's seat when the working platform is occupied, he must secure the carrier against inadvertent movements.
- Platforms must be equipped with an appropriate overhead guard when they are operated in areas where there is a danger of objects dropping down from above, e.g. in unsecured tunnel sections or during demolishing work.
- Platforms used for work under ground must be equipped with a device that protects personnel working on the platform from being squeezed.
- When working under ground, the operator must not leave the driver's seat before all personnel has left the platform.
- The platform must be used in such a manner that the operator always has an unobstructed view on the platform.
- During work, reliable communication between the operator and the personnel on the platform must always be ensured.
- Prior to each use, the operator must check the working platform for perfect and safe condition.
- Before commissioning and when significant modifications were made to the platform, it must be checked by a specialist. Regular checks at intervals that depend on the frequency of application must also be performed.

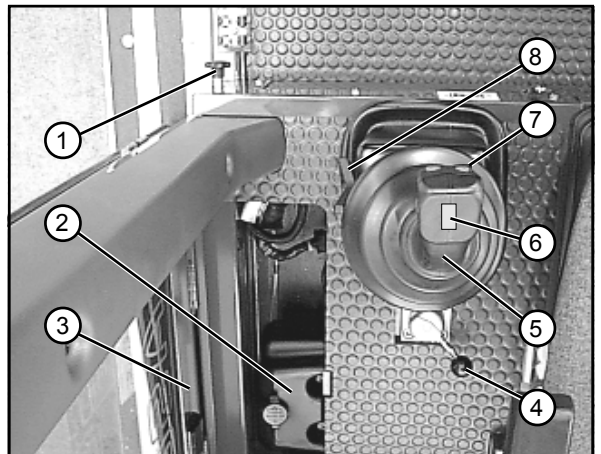


Figure 6-19b

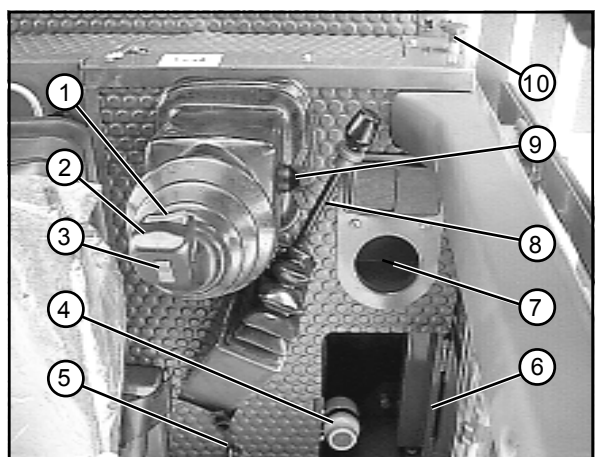


Figure 6-19c

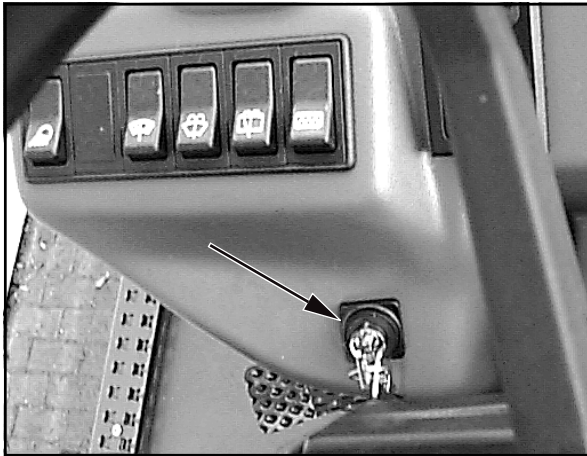


Figure 6-20

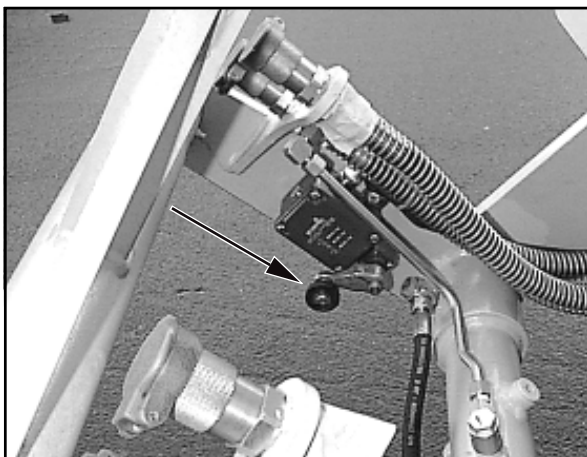


Figure 6-21

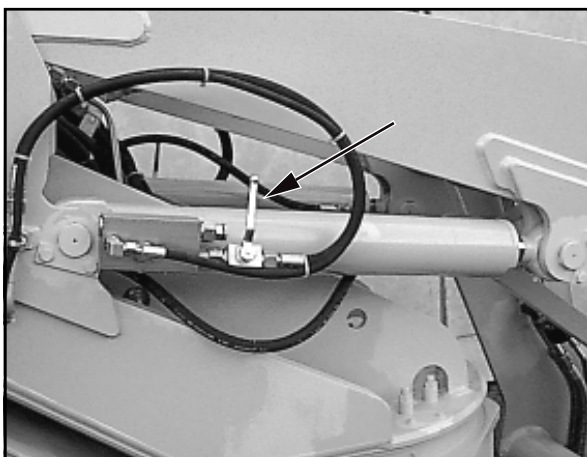


Figure 6-22

Mounting the working platform

(1) Insert the key in the key-operated switch (6-20/arrow).

NOTE

Insert the key only when the loader is at a standstill.

(2) Move the bucket arm to the lowermost position, keep the actuator for the dump interlock on the pilot valve for the auxiliary hydraulics (6-19b/5) pressed and tilt down the quick-change device using the pilot valve for the working hydraulics (6-19c/2).

(3) Move the loader to the working platform.

(4) Keep the actuator for the dump interlock on the pilot valve for the auxiliary hydraulics (6-19b/5) pressed, pick up the working platform with the quick-change device and lift it while tilting the quick-change device until the working platform makes contact with the quick-change device.

NOTE

The bucket's swiveling radius is now restricted to 25° to the right or to the left.

(5) Use the hand lever for the auxiliary hydraulics (6-19b/5) to lock the working platform.

(6) Check that the device is mounted and locked correctly on both sides.

DANGER

Both bolts of the quick-change device must be in the boreholes of the working platform carrier and must be clearly visible on both sides.

(7) Move the bucket arm to a straight forward position.

(8) Take the key out of the key-operated switch (6-20/arrow).

NOTE

- Take out the key only when the loader is at a standstill.
- The lifting suspension and tilting up/dumping are now blocked. Drive stage "I" is set.

(9) Perform a function check. To do so, actuate the pilot valve for the working hydraulics (6-19c/2) for tilting up/dumping (section 2.3) and the swiveling pedal (4-8/4).

CAUTION

Check the position of the switch contact (6-21/arrow)

- if the lifting suspension oscillates,
- if the quick-change device tilts up or dumps,
- or if the support system switches on (in this case, the bucket swivels by far more than 25°).

(10) Change the position of the ball block valves on the lifting cylinders (6-22/arrow).

DANGER

- During work, the key must be removed from the key-operated switch (6-20/arrow).
- Access to the platform may only be permitted by the operator if steps (1) to (11) have been completely carried out.
- The operator must not move the loader until all persons have left the platform. If the loader must be moved during work, this must be done so slowly that personnel on the platform is not endangered.

NOTE

Figure 6-23 shows the labels on the lifting cylinders, figure 6-24 the labels on the key-operated switch.

CAUTION

The hydraulic quick-change device must only be **locked** when an attachment has been mounted.

6.3 Using other attachments

DANGER

1. Only those attachments described in the present operating instructions may be used.
2. We emphasize that attachments that are not supplied by us are also not tested and approved by us. Use of such products can under certain conditions negatively influence the preset constructional qualities of your loader and thus limit the active and passive driving stability. The manufacturer cannot be held responsible for damage that occurs through the use of such products.

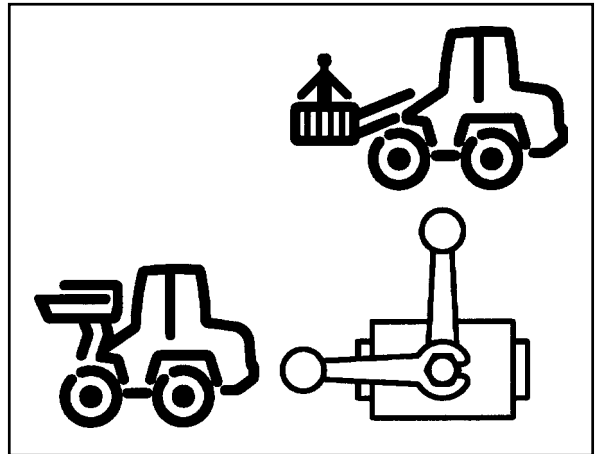


Figure 6-23

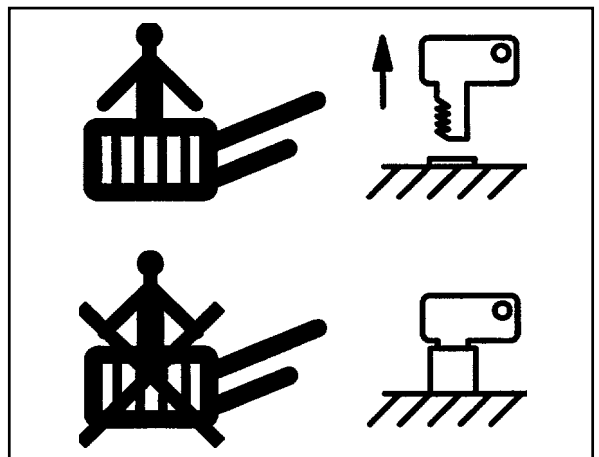


Figure 6-24

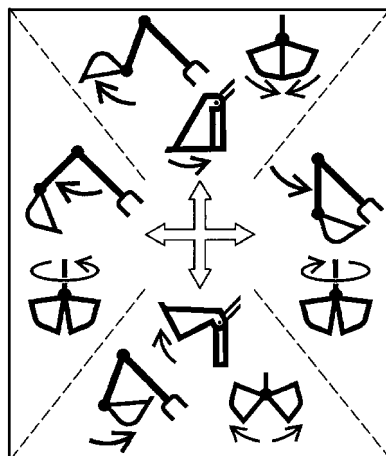


Figure 6-25